

AUTOSTRADA (A14): BOLOGNA - BARI -TARANTO
TRATTO: BOLOGNA BORGO PANIGALE - BOLOGNA SAN LAZZARO

POTENZIAMENTO IN SEDE DEL SISTEMA
AUTOSTRADALE E TANGENZIALE DI BOLOGNA

"PASSANTE DI BOLOGNA"

PROGETTO ESECUTIVO

AUTOSTRADA A14 / TANGENZIALE




GALLERIA ARTIFICIALE FONICA - SAN DONNINO

IMPIANTO IM001 - GALLERIA SAN DONNINO

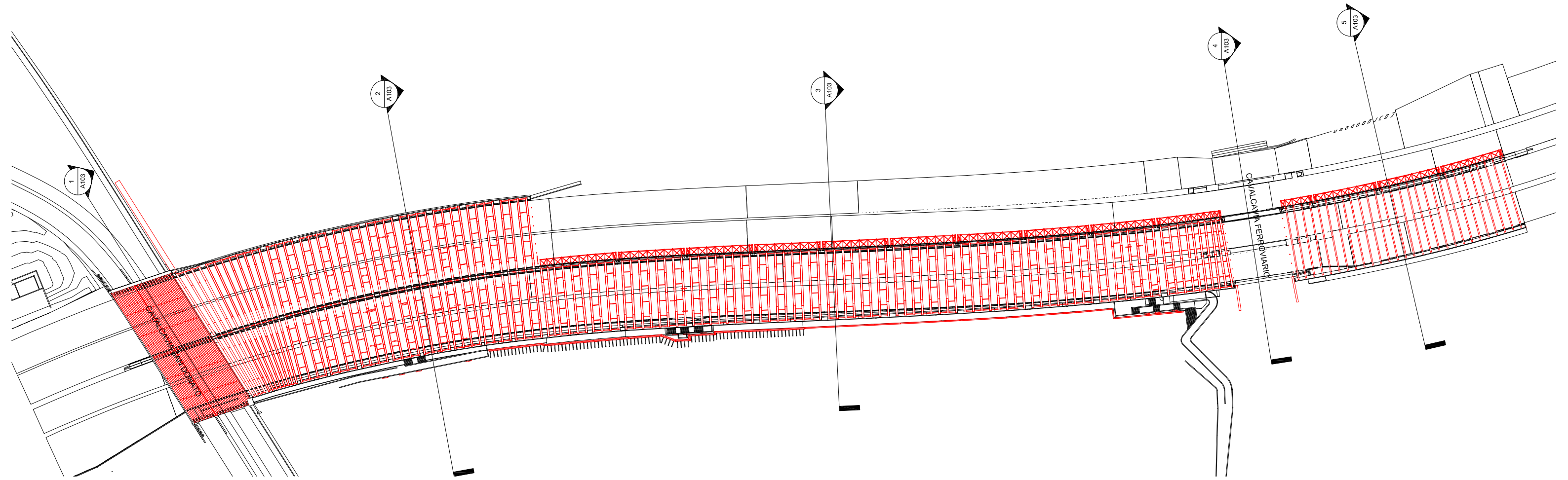
Calcoli illuminotecnici

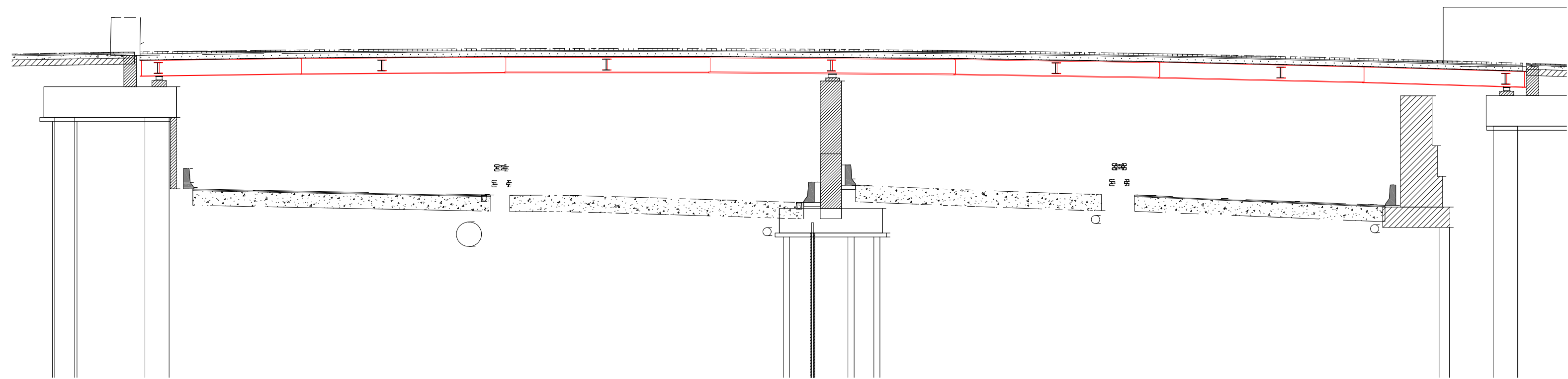
IL PROGETTISTA SPECIALISTICO Ing. Enrico Franzese Ord. Ingg. Firenze N. 7706 Sezione A Responsabile Impianti	IL RESPONSABILE INTEGRAZIONE PRESTAZIONI SPECIALISTICHE Ing. Raffaele Rinaldesi Ord. Ingg. Macerata N. A1068	IL DIRETTORE TECNICO Ing. Gianluca Salvatore Spinazzola Ord. Ingg. Milano N. A26796 T.A. - Strade
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CODICE IDENTIFICATIVO										ORDINATORE	
RIFERIMENTO PROGETTO			RIFERIMENTO DIRETTORIO				RIFERIMENTO ELABORATO				
Codice Commessa	Lotto, Sub-Prog. Cod. Appalto	Fase	Capitolo	Paragrafo	W B S	Parte d'opera	Tip.	Disciplina	Progressivo	Rev.	
111465	0001	PE	AU	CF1	IM001	IMP00	R	OPT	0119	- 0	SCALA /

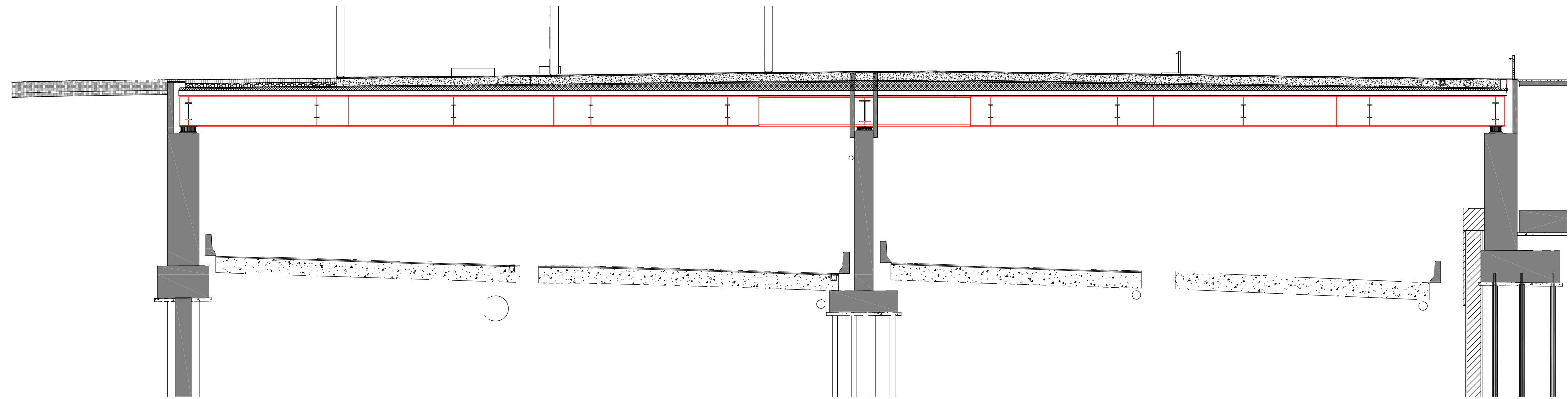
	ENGINEER COORDINATOR:		SUPPORTO SPECIALISTICO:		REVISIONE	
	Ing. Raffaele Rinaldesi Ord. Ingg. Macerata N. A1068		 		n.	data
	REDATTO:		VERIFICATO:		0	DICEMBRE 2021

	VISTO DEL COMMITTENTE  IL RESPONSABILE UNICO DEL PROCEDIMENTO Ing. Fabio Visintin	VISTO DEL CONCEDENTE  Ministero delle Infrastrutture e dei Trasporti <small>DIPARTIMENTO PER LE INFRASTRUTTURE, GLI AFFARI GENERALI E IL PERSONALE STRUTTURA DI VIGILANZA SULLE CONCESSIONARIE AUTOSTRADALI</small>
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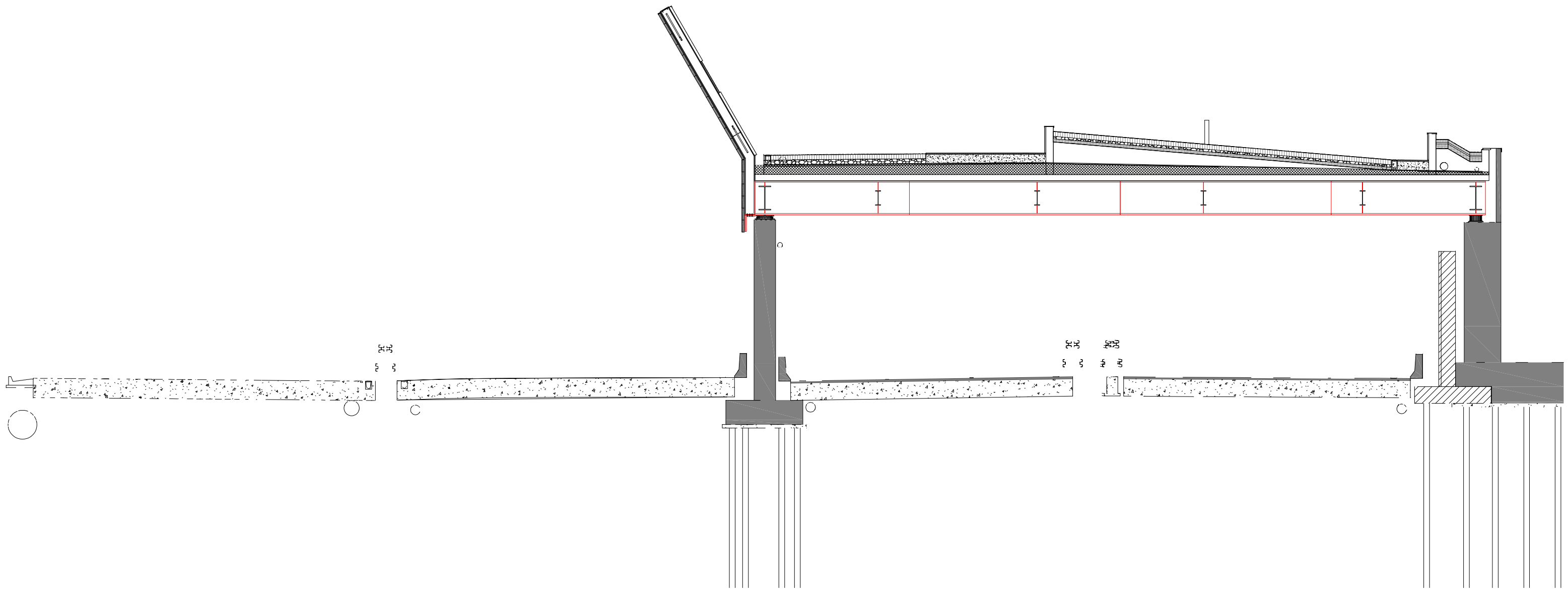




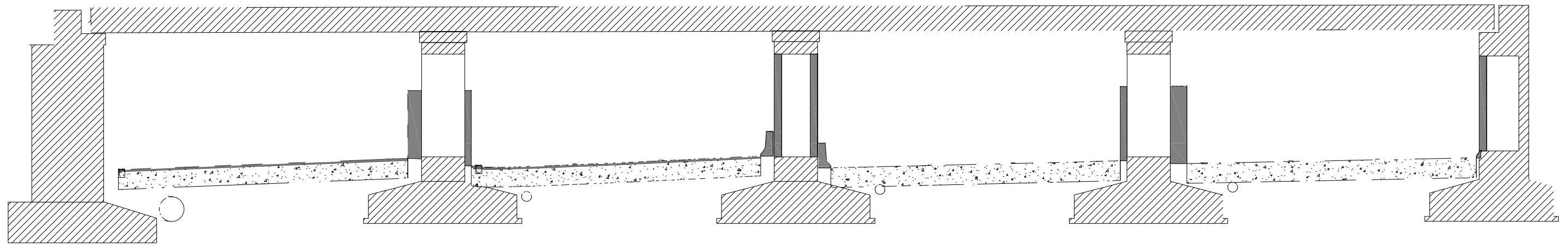
① Sezione 1
1:100



2 Sezione 2
1 : 100

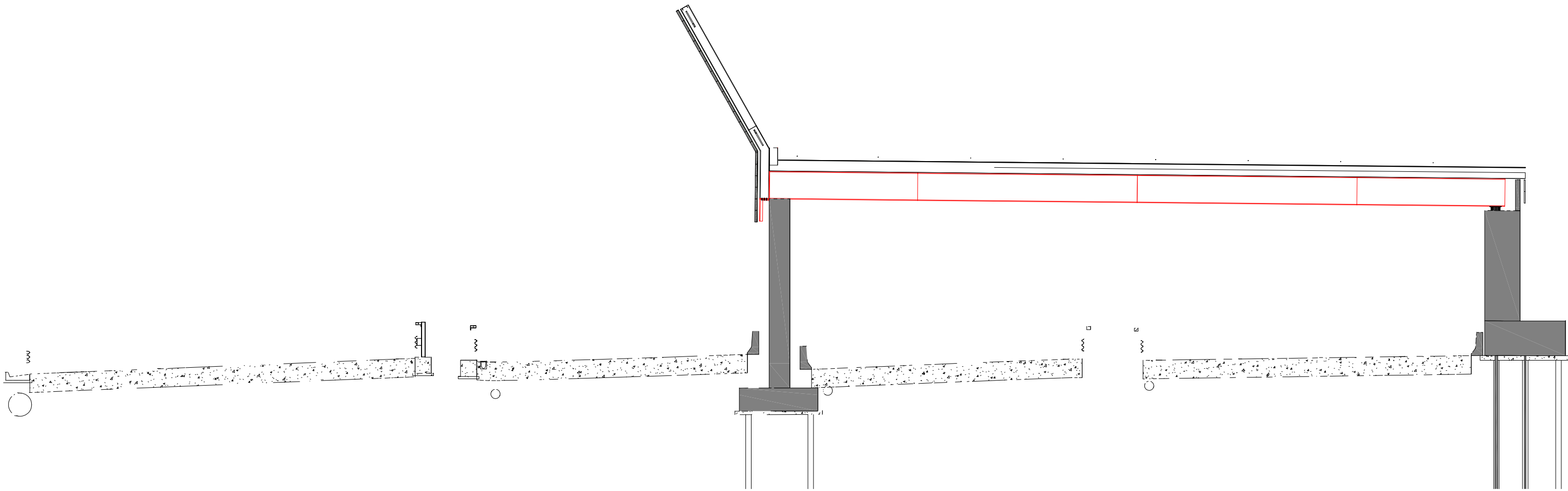


3 Sezione 3
1:100



4

Sezione 4
1 : 100



5 Sezione 5
1 : 100

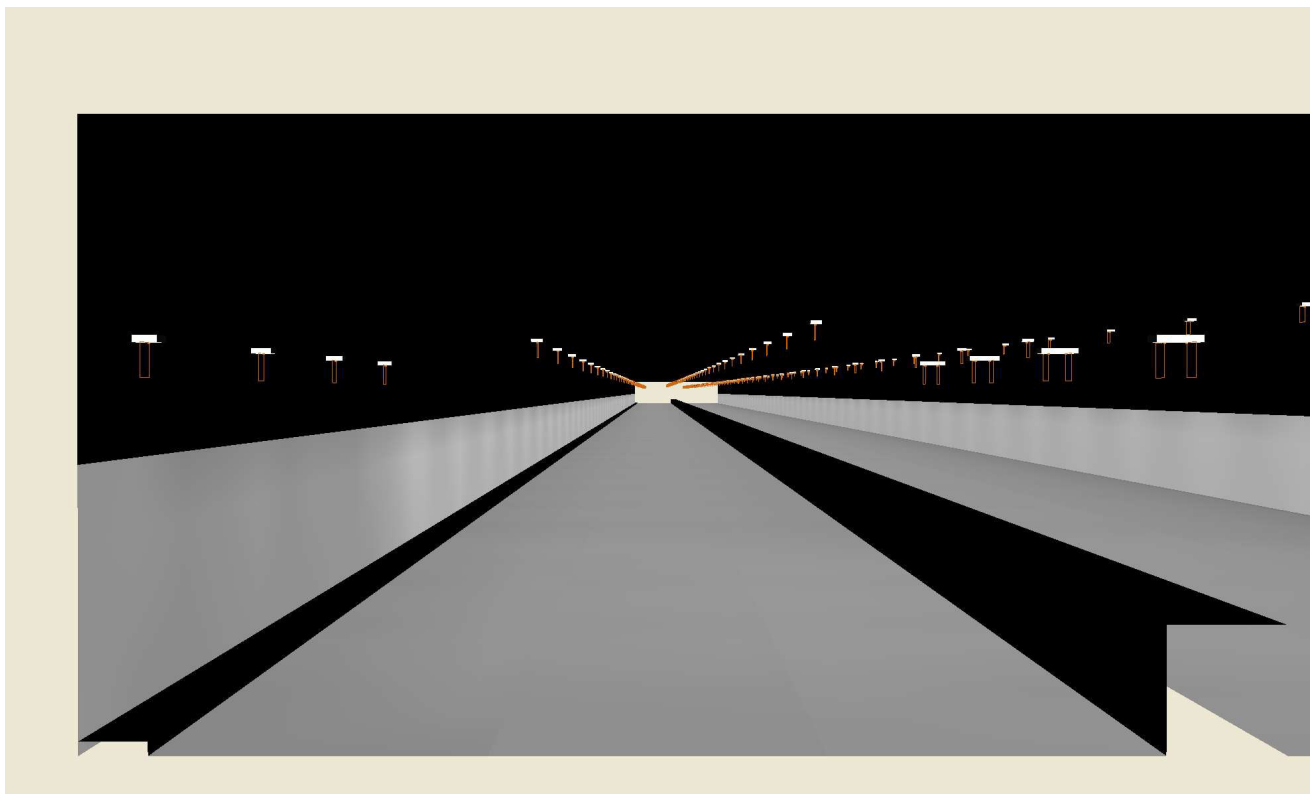
Galleria San Donnino

Note Installazione: Permanente - Autostrada - Sezione 1
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 14/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria da 5.02m a 5.7m
Fattore di manutenzione 80%
H. corpi illuminanti 4.31m e 4.31m

Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

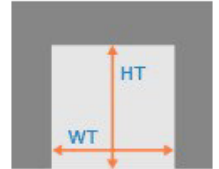
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

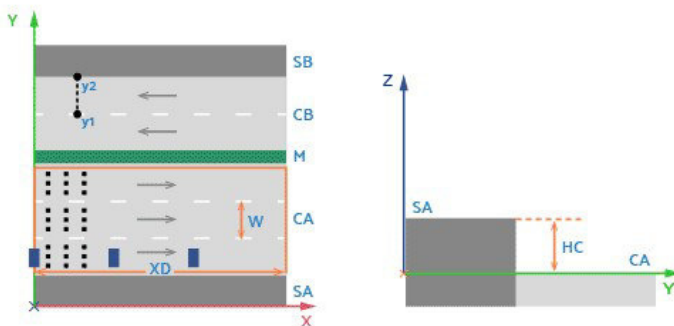
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice	Cubo (A)
Larghezza (WT)	25.81 m
Altezza (HT)	6.61 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%

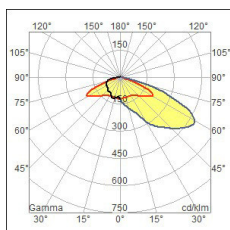


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Carreggiata	Carrabile	Corsia d'Emergenz	--->	2.84	0.00	2.84	3	3	0.00	C2	0.0560
2. Tangenziale	Carrabile			10.50	2.84	13.34	7		0.00	C2	0.0560
	2.1	Corsia 1	--->	3.50	2.84	6.34		3			
	2.2	Corsia 2	--->	3.50	6.34	9.84		3			
	2.3	Corsia 3	--->	3.50	9.84	13.34		3			
3. Mediana Centra	Secondaria	Mediana Centrale	--->	1.25	13.34	14.59	3	3	1.35		0.0000
4. Autostrada A14	Carrabile			10.50	14.59	25.09	7		0.00	C2	0.0560
	4.1	Corsia 1	--->	3.50	14.59	18.09		3			
	4.2	Corsia 2	--->	3.50	18.09	21.59		3			
	4.3	Corsia 3	--->	3.50	21.59	25.09		3			
5. Marciapiede B	Pista Ciclo/Pedona	Marciapiede	--->	0.72	25.09	25.81	3	3	0.15		0.3000

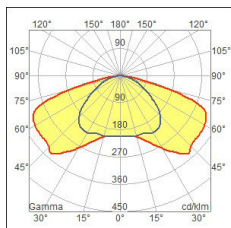


1.2 Informazioni Apparecchi/Rilievi

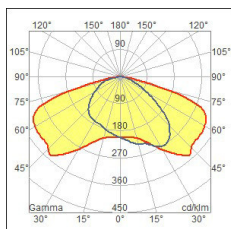
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	3101.00	0.80	100 %	255,255,255	16	Sorg-A	1



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coef. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	108	Sorg-B	1



C	Detas SpA Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	4452.00	0.80	100 %	255,255,255	108	Sorg-C	1
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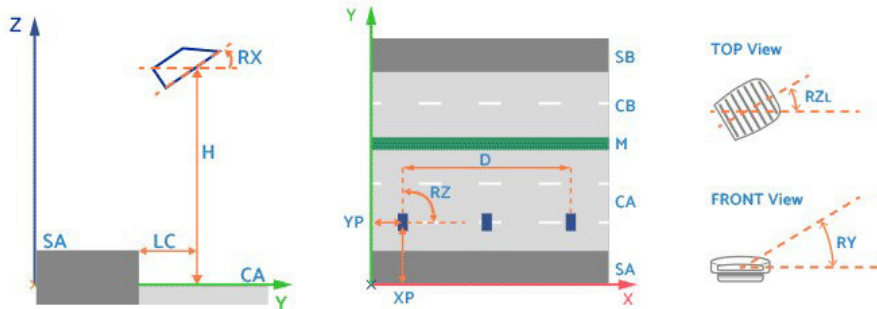


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		16D440 22W	16D440 22W	22.00	0.0000	3101	6000	16
Sorg-B		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	108
Sorg-C		16D600 30W	16D600 30W	30.00	0.0000	4452	6000	108

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altezz.App. [m] (H)	Num. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila A	A		2.00	2.00	4.31	4	6.50	0.00	19.50	0	0	0
Fila B	A		2.00	13.84	4.31	4	6.50	0.00	19.50	0	180	-0
Fila B	A		2.00	14.09	4.31	4	6.50	0.00	19.50	0	0	-0
Fila B	A		2.00	25.59	4.31	4	6.50	0.00	19.50	0	180	-0
Fila B	B		29.00	3.50	5.90	54	10.50	0.00	556.50	0	0	-0
Fila B	C		29.00	10.50	5.00	54	10.50	0.00	556.50	0	180	-0
Fila B	C		29.00	15.81	5.45	54	10.50	0.00	556.50	0	0	-0
Fila B	B		29.00	22.81	5.00	54	10.50	0.00	556.50	0	0	-0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Carreggiata	Risultati	LAV = 1.83 cd/m ²	Uo(L) = 0.33	UL = 0.36	fTI = 6 %
	Oss. 1) [x=-60.00 y=1.42] m Oss.Ti [x=90.27 y=1.42] m Lv = 0.18	LAV = 1.83 cd/m ² *	Uo(L) = 0.33 *	UL = 0.36 *	fTI = 5.63 % *
2 - Tangenziale	Risultati	LAV = 2.61 cd/m ²	Uo(L) = 0.33	UL = 0.31	fTI = 6 %
	Oss. 1) [x=-60.00 y=4.59] m	LAV = 2.62 cd/m ²	Uo(L) = 0.33 *	UL = 0.31 *	fTI = 5.60 % fTI = 6.16 % fTI = 6.20 % *
	Oss. 2) [x=-60.00 y=8.09] m	LAV = 2.62 cd/m ²	Uo(L) = 0.33	UL = 0.41	
	Oss. 3) [x=-60.00 y=11.59] m	LAV = 2.61 cd/m ² *	Uo(L) = 0.33	UL = 0.32	
	Oss.Ti 1) [x=90.27 y=4.59] m				
Oss.Ti 2) [x=40.27 y=8.09] m Oss.Ti 3) [x=40.27 y=11.59] m Lv = 0.25					
4 - Autostrada A14	Risultati	LAV = 2.61 cd/m ²	Uo(L) = 0.34	UL = 0.30	fTI = 8 %
	Oss. 1) [x=-60.00 y=16.34] m	LAV = 2.61 cd/m ² *	Uo(L) = 0.34	UL = 0.30 *	fTI = 6.78 % fTI = 6.16 % fTI = 7.73 % *
	Oss. 2) [x=-60.00 y=19.84] m	LAV = 2.63 cd/m ²	Uo(L) = 0.34	UL = 0.41	
	Oss. 3) [x=-60.00 y=23.34] m	LAV = 2.64 cd/m ²	Uo(L) = 0.34 *	UL = 0.30	
	Oss.Ti 1) [x=28.27 y=16.34] m				
Oss.Ti 2) [x=574.27 y=19.84] m Oss.Ti 3) [x=40.27 y=23.34] m Lv = 0.31					
5 - Marciapiede B	Risultati	EAV = 35.9 lux	EMIN = 22.22 lux		

Riepilogo Uniformità di Luminan.

Sezione Permanente	[10.00..580.00] m	(Luminanza Costante)			
Parete Destra	LAV%,(pd/c,o1) = 158.1 %	LAV,pd=2.92 cd/m ²	Uo,pd=0.66	Ul,pd=0.58 (y=1.70 m)	
Parete Sinistra	LAV%,(ps/c,o1) = 187.4 %	LAV,ps=3.46 cd/m ²	Uo,ps=0.40	Ul,ps=0.33 (y=1.70 m)	
1 - Carreggiata	--->	LAV,c,o1=1.85 cd/m ²	Uo,c,o1=0.60	Ul,o1=0.81 (y=1.42 m)	
2 - Tangenziale	--->	LAV,c,o3=2.64 cd/m ²	Uo,c,o2=0.75	Ul,o1=0.72 (y=4.59 m)	
--->	Oss. 1) [x=-60.00 y=4.59] m	LAV,c,o1=2.64 cd/m ²	Uo,c,o1=0.75	Ul,o1=0.72 (y=4.59 m) *	
--->	Oss. 2) [x=-60.00 y=8.09] m	LAV,c,o2=2.65 cd/m ²	Uo,c,o2=0.75 *	Ul,o2=0.77 (y=8.09 m)	
--->	Oss. 3) [x=-60.00 y=11.59] m	LAV,c,o3=2.64 cd/m ² *	Uo,c,o3=0.76	Ul,o3=0.73 (y=11.59 m)	
4 - Autostrada A14	--->	LAV,c,o1=2.63 cd/m ²	Uo,c,o1=0.64	Ul,o1=0.69 (y=16.34 m)	
--->	Oss. 1) [x=-60.00 y=16.34] m	LAV,c,o1=2.63 cd/m ² *	Uo,c,o1=0.64 *	Ul,o1=0.69 (y=16.34 m)	
--->	Oss. 2) [x=-60.00 y=19.84] m	LAV,c,o2=2.66 cd/m ²	Uo,c,o2=0.69	Ul,o2=0.81 (y=19.84 m)	
--->	Oss. 3) [x=-60.00 y=23.34] m	LAV,c,o3=2.67 cd/m ²	Uo,c,o3=0.74	Ul,o3=0.74 (y=23.34 m)	
5 - Marciapiede B	LAV%,(ms/c,o1) = 186.5 %	LAV,ms,o1=3.44 cd/m ²	Uo,ms,o1=0.78	Ul,o1=0.78 (y=25.45 m)	

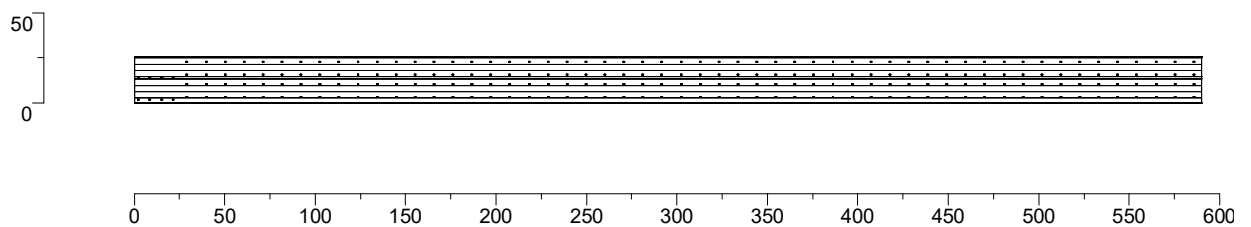
pd: Parete Destra ps: Parete Sinistra c: Carreggiata cm: Corsie di Marcia
md: Marciapiede Destro ms: Marciapiede Sinistro o: Osservatore

Inquinamento Luminoso

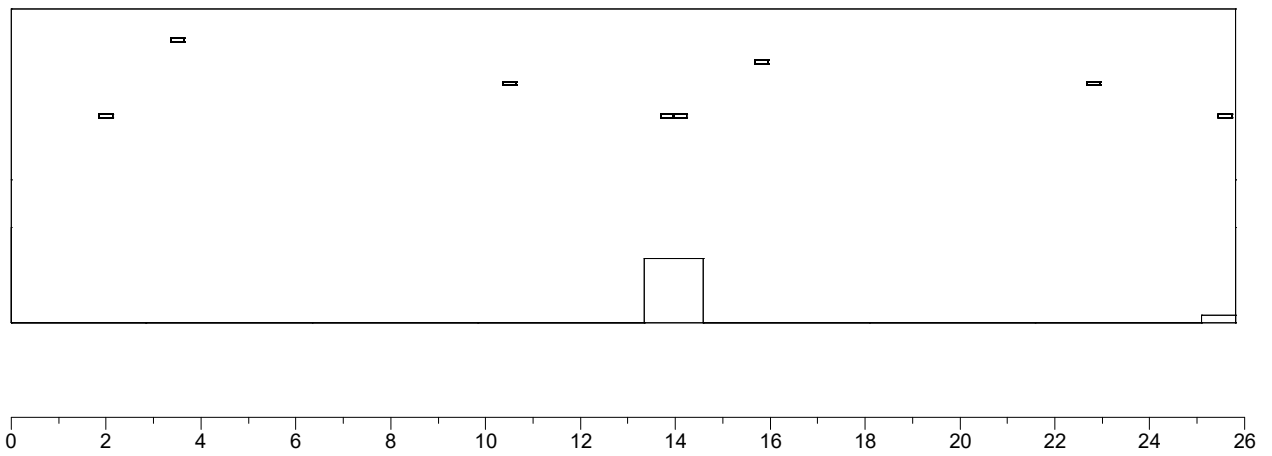
Rapporto Medio - Rn -
0.01 %

2. Viste Ambiente

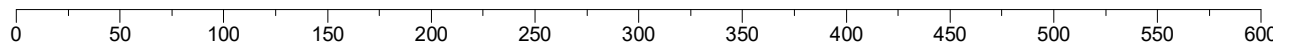
2.1 Vista 2D in Pianta



2.2 Vista Laterale

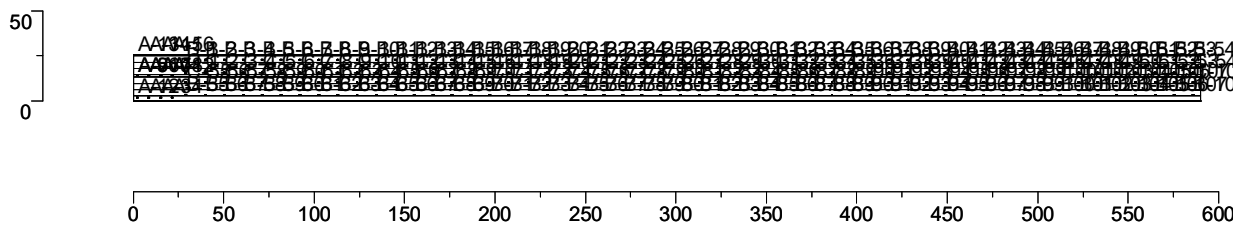


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	2.00	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-2	100 %	8.50	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-3	100 %	15.00	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-4	100 %	21.50	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-5	100 %	2.00	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-6	100 %	8.50	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-7	100 %	15.00	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-8	100 %	21.50	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-9	100 %	2.00	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-10	100 %	8.50	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-11	100 %	15.00	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-12	100 %	21.50	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-13	100 %	2.00	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-14	100 %	8.50	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-15	100 %	15.00	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-16	100 %	21.50	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-1	100 %	29.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-2	100 %	39.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-3	100 %	50.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-4	100 %	60.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-5	100 %	71.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-6	100 %	81.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-7	100 %	92.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-8	100 %	102.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-9	100 %	113.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-10	100 %	123.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-11	100 %	134.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-12	100 %	144.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-13	100 %	155.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-14	100 %	165.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-15	100 %	176.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-16	100 %	186.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-17	100 %	197.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-18	100 %	207.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-19	100 %	218.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-20	100 %	228.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-21	100 %	239.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-22	100 %	249.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-23	100 %	260.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-24	100 %	270.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-25	100 %	281.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-26	100 %	291.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-27	100 %	302.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-28	100 %	312.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-29	100 %	323.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-30	100 %	333.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-31	100 %	344.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-32	100 %	354.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-33	100 %	365.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-34	100 %	375.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-35	100 %	386.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-36	100 %	396.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-37	100 %	407.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-38	100 %	417.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-39	100 %	428.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-40	100 %	438.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-41	100 %	449.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-42	100 %	459.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-43	100 %	470.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-44	100 %	480.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-45	100 %	491.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-46	100 %	501.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-47	100 %	512.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-48	100 %	522.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-49	100 %	533.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-50	100 %	543.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-51	100 %	554.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
B-52	100 %	564.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-53	100 %	575.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-54	100 %	585.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-55	100 %	29.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-56	100 %	39.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-57	100 %	50.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-58	100 %	60.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-59	100 %	71.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-60	100 %	81.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-61	100 %	92.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-62	100 %	102.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-63	100 %	113.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-64	100 %	123.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-65	100 %	134.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-66	100 %	144.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-67	100 %	155.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-68	100 %	165.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-69	100 %	176.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-70	100 %	186.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-71	100 %	197.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-72	100 %	207.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-73	100 %	218.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-74	100 %	228.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-75	100 %	239.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-76	100 %	249.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-77	100 %	260.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-78	100 %	270.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-79	100 %	281.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-80	100 %	291.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-81	100 %	302.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-82	100 %	312.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-83	100 %	323.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-84	100 %	333.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-85	100 %	344.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-86	100 %	354.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-87	100 %	365.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-88	100 %	375.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-89	100 %	386.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-90	100 %	396.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-91	100 %	407.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-92	100 %	417.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-93	100 %	428.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-94	100 %	438.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-95	100 %	449.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-96	100 %	459.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-97	100 %	470.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-98	100 %	480.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-99	100 %	491.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-100	100 %	501.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-101	100 %	512.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-102	100 %	522.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-103	100 %	533.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-104	100 %	543.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-105	100 %	554.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-106	100 %	564.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-107	100 %	575.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-108	100 %	585.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-1	100 %	29.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-2	100 %	39.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-3	100 %	50.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-4	100 %	60.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-5	100 %	71.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-6	100 %	81.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-7	100 %	92.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-8	100 %	102.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-9	100 %	113.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-10	100 %	123.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-11	100 %	134.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-12	100 %	144.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-13	100 %	155.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
C-14	100 %	165.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-15	100 %	176.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-16	100 %	186.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-17	100 %	197.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-18	100 %	207.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-19	100 %	218.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-20	100 %	228.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-21	100 %	239.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-22	100 %	249.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-23	100 %	260.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-24	100 %	270.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-25	100 %	281.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-26	100 %	291.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-27	100 %	302.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-28	100 %	312.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-29	100 %	323.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-30	100 %	333.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-31	100 %	344.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-32	100 %	354.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-33	100 %	365.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-34	100 %	375.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-35	100 %	386.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-36	100 %	396.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-37	100 %	407.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-38	100 %	417.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-39	100 %	428.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-40	100 %	438.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-41	100 %	449.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-42	100 %	459.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-43	100 %	470.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-44	100 %	480.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-45	100 %	491.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-46	100 %	501.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-47	100 %	512.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-48	100 %	522.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-49	100 %	533.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-50	100 %	543.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-51	100 %	554.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-52	100 %	564.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-53	100 %	575.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-54	100 %	585.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-55	100 %	29.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-56	100 %	39.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-57	100 %	50.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-58	100 %	60.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-59	100 %	71.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-60	100 %	81.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-61	100 %	92.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-62	100 %	102.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-63	100 %	113.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-64	100 %	123.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-65	100 %	134.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-66	100 %	144.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-67	100 %	155.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-68	100 %	165.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-69	100 %	176.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-70	100 %	186.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-71	100 %	197.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-72	100 %	207.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-73	100 %	218.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-74	100 %	228.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-75	100 %	239.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-76	100 %	249.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-77	100 %	260.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-78	100 %	270.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-79	100 %	281.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-80	100 %	291.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-81	100 %	302.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-82	100 %	312.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-83	100 %	323.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
C-84	100 %	333.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-85	100 %	344.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-86	100 %	354.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-87	100 %	365.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-88	100 %	375.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-89	100 %	386.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-90	100 %	396.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-91	100 %	407.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-92	100 %	417.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-93	100 %	428.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-94	100 %	438.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-95	100 %	449.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-96	100 %	459.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-97	100 %	470.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-98	100 %	480.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-99	100 %	491.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-100	100 %	501.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-101	100 %	512.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-102	100 %	522.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-103	100 %	533.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-104	100 %	543.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-105	100 %	554.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-106	100 %	564.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-107	100 %	575.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-108	100 %	585.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8S 16D440_W201A	100 %	2.00	2.00	4.31	0.0	-0.0	0.0	2.00	2.00	0.00	0.0
A-2		Radiant 8S 16D440_W201A	100 %	8.50	2.00	4.31	0.0	-0.0	0.0	8.50	2.00	0.00	0.0
A-3		Radiant 8S 16D440_W201A	100 %	15.00	2.00	4.31	0.0	-0.0	0.0	15.00	2.00	0.00	0.0
A-4		Radiant 8S 16D440_W201A	100 %	21.50	2.00	4.31	0.0	-0.0	0.0	21.50	2.00	0.00	0.0
A-5		Radiant 8S 16D440_W201A	100 %	2.00	14.09	4.31	0.0	-0.0	0.0	2.00	14.09	0.00	0.0
A-6		Radiant 8S 16D440_W201A	100 %	8.50	14.09	4.31	0.0	-0.0	0.0	8.50	14.09	0.00	0.0
A-7		Radiant 8S 16D440_W201A	100 %	15.00	14.09	4.31	0.0	-0.0	0.0	15.00	14.09	0.00	0.0
A-8		Radiant 8S 16D440_W201A	100 %	21.50	14.09	4.31	0.0	-0.0	0.0	21.50	14.09	0.00	0.0
A-9		Radiant 8S 16D440_W201A	100 %	2.00	13.84	4.31	0.0	-0.0	180.0	2.00	13.84	0.00	0.0
A-10		Radiant 8S 16D440_W201A	100 %	8.50	13.84	4.31	0.0	-0.0	180.0	8.50	13.84	0.00	0.0
A-11		Radiant 8S 16D440_W201A	100 %	15.00	13.84	4.31	0.0	-0.0	180.0	15.00	13.84	0.00	0.0
A-12		Radiant 8S 16D440_W201A	100 %	21.50	13.84	4.31	0.0	-0.0	180.0	21.50	13.84	0.00	0.0
A-13		Radiant 8S 16D440_W201A	100 %	2.00	25.59	4.31	0.0	-0.0	180.0	2.00	25.59	0.00	0.0
A-14		Radiant 8S 16D440_W201A	100 %	8.50	25.59	4.31	0.0	-0.0	180.0	8.50	25.59	0.00	0.0
A-15		Radiant 8S 16D440_W201A	100 %	15.00	25.59	4.31	0.0	-0.0	180.0	15.00	25.59	0.00	0.0
A-16		Radiant 8S 16D440_W201A	100 %	21.50	25.59	4.31	0.0	-0.0	180.0	21.50	25.59	0.00	0.0
B-1		Radiant 8S 16D700_W244S	100 %	29.00	22.81	5.00	0.0	-0.0	0.0	29.00	22.81	0.00	0.0
B-2		Radiant 8S 16D700_W244S	100 %	39.50	22.81	5.00	0.0	-0.0	0.0	39.50	22.81	0.00	0.0
B-3		Radiant 8S 16D700_W244S	100 %	50.00	22.81	5.00	0.0	-0.0	0.0	50.00	22.81	0.00	0.0
B-4		Radiant 8S 16D700_W244S	100 %	60.50	22.81	5.00	0.0	-0.0	0.0	60.50	22.81	0.00	0.0
B-5		Radiant 8S 16D700_W244S	100 %	71.00	22.81	5.00	0.0	-0.0	0.0	71.00	22.81	0.00	0.0
B-6		Radiant 8S 16D700_W244S	100 %	81.50	22.81	5.00	0.0	-0.0	0.0	81.50	22.81	0.00	0.0
B-7		Radiant 8S 16D700_W244S	100 %	92.00	22.81	5.00	0.0	-0.0	0.0	92.00	22.81	0.00	0.0
B-8		Radiant 8S 16D700_W244S	100 %	102.50	22.81	5.00	0.0	-0.0	0.0	102.50	22.81	0.00	0.0
B-9		Radiant 8S 16D700_W244S	100 %	113.00	22.81	5.00	0.0	-0.0	0.0	113.00	22.81	0.00	0.0
B-10		Radiant 8S 16D700_W244S	100 %	123.50	22.81	5.00	0.0	-0.0	0.0	123.50	22.81	0.00	0.0
B-11		Radiant 8S 16D700_W244S	100 %	134.00	22.81	5.00	0.0	-0.0	0.0	134.00	22.81	0.00	0.0
B-12		Radiant 8S 16D700_W244S	100 %	144.50	22.81	5.00	0.0	-0.0	0.0	144.50	22.81	0.00	0.0
B-13		Radiant 8S 16D700_W244S	100 %	155.00	22.81	5.00	0.0	-0.0	0.0	155.00	22.81	0.00	0.0
B-14		Radiant 8S 16D700_W244S	100 %	165.50	22.81	5.00	0.0	-0.0	0.0	165.50	22.81	0.00	0.0
B-15		Radiant 8S 16D700_W244S	100 %	176.00	22.81	5.00	0.0	-0.0	0.0	176.00	22.81	0.00	0.0
B-16		Radiant 8S 16D700_W244S	100 %	186.50	22.81	5.00	0.0	-0.0	0.0	186.50	22.81	0.00	0.0
B-17		Radiant 8S 16D700_W244S	100 %	197.00	22.81	5.00	0.0	-0.0	0.0	197.00	22.81	0.00	0.0
B-18		Radiant 8S 16D700_W244S	100 %	207.50	22.81	5.00	0.0	-0.0	0.0	207.50	22.81	0.00	0.0
B-19		Radiant 8S 16D700_W244S	100 %	218.00	22.81	5.00	0.0	-0.0	0.0	218.00	22.81	0.00	0.0
B-20		Radiant 8S 16D700_W244S	100 %	228.50	22.81	5.00	0.0	-0.0	0.0	228.50	22.81	0.00	0.0

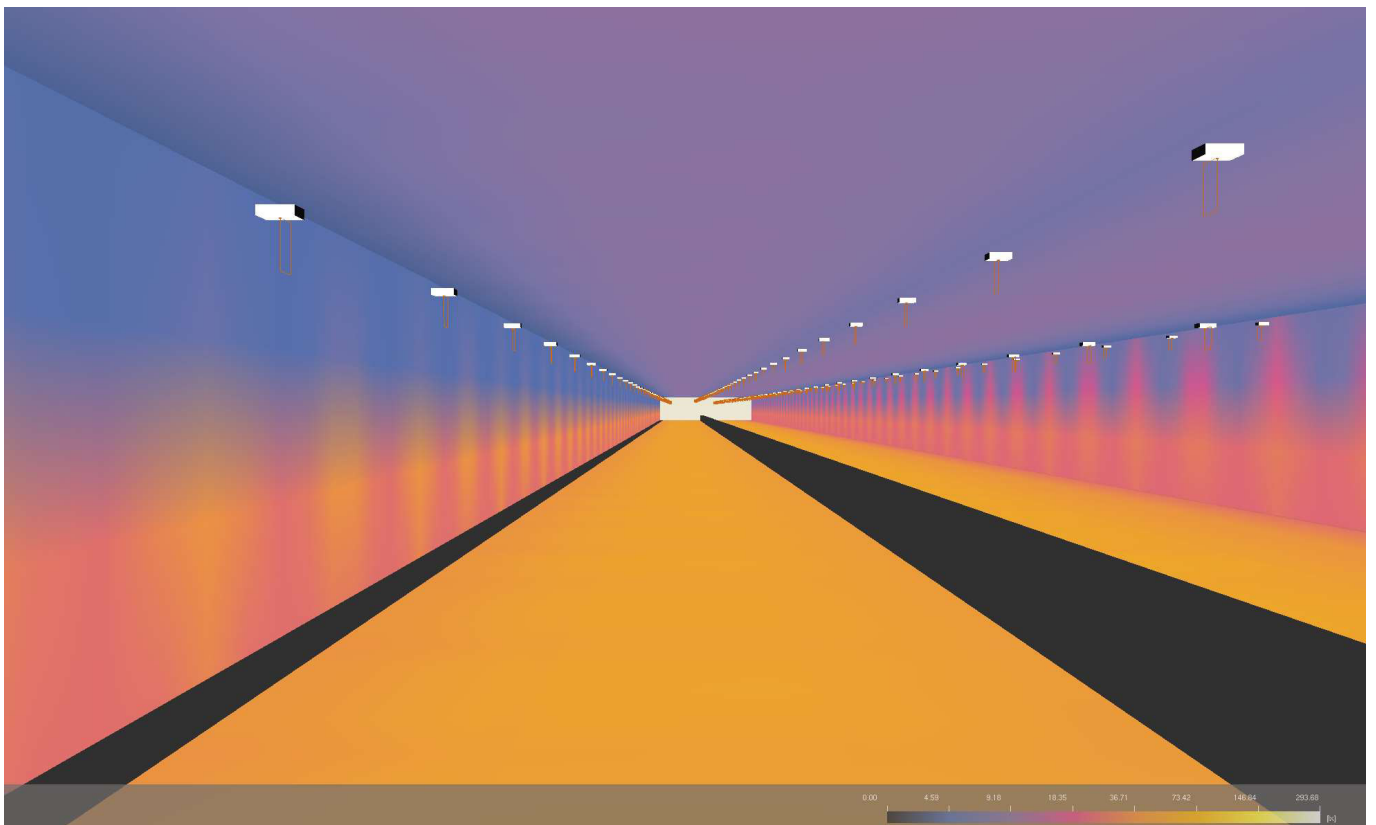
Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
B-21		Radiant 8S 16D700_W244S	100 %	239.00	22.81	5.00	0.0	-0.0	0.0	239.00	22.81	0.00	0.0
B-22		Radiant 8S 16D700_W244S	100 %	249.50	22.81	5.00	0.0	-0.0	0.0	249.50	22.81	0.00	0.0
B-23		Radiant 8S 16D700_W244S	100 %	260.00	22.81	5.00	0.0	-0.0	0.0	260.00	22.81	0.00	0.0
B-24		Radiant 8S 16D700_W244S	100 %	270.50	22.81	5.00	0.0	-0.0	0.0	270.50	22.81	0.00	0.0
B-25		Radiant 8S 16D700_W244S	100 %	281.00	22.81	5.00	0.0	-0.0	0.0	281.00	22.81	0.00	0.0
B-26		Radiant 8S 16D700_W244S	100 %	291.50	22.81	5.00	0.0	-0.0	0.0	291.50	22.81	0.00	0.0
B-27		Radiant 8S 16D700_W244S	100 %	302.00	22.81	5.00	0.0	-0.0	0.0	302.00	22.81	0.00	0.0
B-28		Radiant 8S 16D700_W244S	100 %	312.50	22.81	5.00	0.0	-0.0	0.0	312.50	22.81	0.00	0.0
B-29		Radiant 8S 16D700_W244S	100 %	323.00	22.81	5.00	0.0	-0.0	0.0	323.00	22.81	0.00	0.0
B-30		Radiant 8S 16D700_W244S	100 %	333.50	22.81	5.00	0.0	-0.0	0.0	333.50	22.81	0.00	0.0
B-31		Radiant 8S 16D700_W244S	100 %	344.00	22.81	5.00	0.0	-0.0	0.0	344.00	22.81	0.00	0.0
B-32		Radiant 8S 16D700_W244S	100 %	354.50	22.81	5.00	0.0	-0.0	0.0	354.50	22.81	0.00	0.0
B-33		Radiant 8S 16D700_W244S	100 %	365.00	22.81	5.00	0.0	-0.0	0.0	365.00	22.81	0.00	0.0
B-34		Radiant 8S 16D700_W244S	100 %	375.50	22.81	5.00	0.0	-0.0	0.0	375.50	22.81	0.00	0.0
B-35		Radiant 8S 16D700_W244S	100 %	386.00	22.81	5.00	0.0	-0.0	0.0	386.00	22.81	0.00	0.0
B-36		Radiant 8S 16D700_W244S	100 %	396.50	22.81	5.00	0.0	-0.0	0.0	396.50	22.81	0.00	0.0
B-37		Radiant 8S 16D700_W244S	100 %	407.00	22.81	5.00	0.0	-0.0	0.0	407.00	22.81	0.00	0.0
B-38		Radiant 8S 16D700_W244S	100 %	417.50	22.81	5.00	0.0	-0.0	0.0	417.50	22.81	0.00	0.0
B-39		Radiant 8S 16D700_W244S	100 %	428.00	22.81	5.00	0.0	-0.0	0.0	428.00	22.81	0.00	0.0
B-40		Radiant 8S 16D700_W244S	100 %	438.50	22.81	5.00	0.0	-0.0	0.0	438.50	22.81	0.00	0.0
B-41		Radiant 8S 16D700_W244S	100 %	449.00	22.81	5.00	0.0	-0.0	0.0	449.00	22.81	0.00	0.0
B-42		Radiant 8S 16D700_W244S	100 %	459.50	22.81	5.00	0.0	-0.0	0.0	459.50	22.81	0.00	0.0
B-43		Radiant 8S 16D700_W244S	100 %	470.00	22.81	5.00	0.0	-0.0	0.0	470.00	22.81	0.00	0.0
B-44		Radiant 8S 16D700_W244S	100 %	480.50	22.81	5.00	0.0	-0.0	0.0	480.50	22.81	0.00	0.0
B-45		Radiant 8S 16D700_W244S	100 %	491.00	22.81	5.00	0.0	-0.0	0.0	491.00	22.81	0.00	0.0
B-46		Radiant 8S 16D700_W244S	100 %	501.50	22.81	5.00	0.0	-0.0	0.0	501.50	22.81	0.00	0.0
B-47		Radiant 8S 16D700_W244S	100 %	512.00	22.81	5.00	0.0	-0.0	0.0	512.00	22.81	0.00	0.0
B-48		Radiant 8S 16D700_W244S	100 %	522.50	22.81	5.00	0.0	-0.0	0.0	522.50	22.81	0.00	0.0
B-49		Radiant 8S 16D700_W244S	100 %	533.00	22.81	5.00	0.0	-0.0	0.0	533.00	22.81	0.00	0.0
B-50		Radiant 8S 16D700_W244S	100 %	543.50	22.81	5.00	0.0	-0.0	0.0	543.50	22.81	0.00	0.0
B-51		Radiant 8S 16D700_W244S	100 %	554.00	22.81	5.00	0.0	-0.0	0.0	554.00	22.81	0.00	0.0
B-52		Radiant 8S 16D700_W244S	100 %	564.50	22.81	5.00	0.0	-0.0	0.0	564.50	22.81	0.00	0.0
B-53		Radiant 8S 16D700_W244S	100 %	575.00	22.81	5.00	0.0	-0.0	0.0	575.00	22.81	0.00	0.0
B-54		Radiant 8S 16D700_W244S	100 %	585.50	22.81	5.00	0.0	-0.0	0.0	585.50	22.81	0.00	0.0
B-55		Radiant 8S 16D700_W244S	100 %	29.00	3.50	5.90	0.0	-0.0	0.0	29.00	3.50	-0.00	0.0
B-56		Radiant 8S 16D700_W244S	100 %	39.50	3.50	5.90	0.0	-0.0	0.0	39.50	3.50	-0.00	0.0
B-57		Radiant 8S 16D700_W244S	100 %	50.00	3.50	5.90	0.0	-0.0	0.0	50.00	3.50	-0.00	0.0
B-58		Radiant 8S 16D700_W244S	100 %	60.50	3.50	5.90	0.0	-0.0	0.0	60.50	3.50	-0.00	0.0
B-59		Radiant 8S 16D700_W244S	100 %	71.00	3.50	5.90	0.0	-0.0	0.0	71.00	3.50	-0.00	0.0
B-60		Radiant 8S 16D700_W244S	100 %	81.50	3.50	5.90	0.0	-0.0	0.0	81.50	3.50	-0.00	0.0
B-61		Radiant 8S 16D700_W244S	100 %	92.00	3.50	5.90	0.0	-0.0	0.0	92.00	3.50	-0.00	0.0
B-62		Radiant 8S 16D700_W244S	100 %	102.50	3.50	5.90	0.0	-0.0	0.0	102.50	3.50	-0.00	0.0
B-63		Radiant 8S 16D700_W244S	100 %	113.00	3.50	5.90	0.0	-0.0	0.0	113.00	3.50	-0.00	0.0
B-64		Radiant 8S 16D700_W244S	100 %	123.50	3.50	5.90	0.0	-0.0	0.0	123.50	3.50	-0.00	0.0
B-65		Radiant 8S 16D700_W244S	100 %	134.00	3.50	5.90	0.0	-0.0	0.0	134.00	3.50	-0.00	0.0
B-66		Radiant 8S 16D700_W244S	100 %	144.50	3.50	5.90	0.0	-0.0	0.0	144.50	3.50	-0.00	0.0
B-67		Radiant 8S 16D700_W244S	100 %	155.00	3.50	5.90	0.0	-0.0	0.0	155.00	3.50	-0.00	0.0
B-68		Radiant 8S 16D700_W244S	100 %	165.50	3.50	5.90	0.0	-0.0	0.0	165.50	3.50	-0.00	0.0
B-69		Radiant 8S 16D700_W244S	100 %	176.00	3.50	5.90	0.0	-0.0	0.0	176.00	3.50	-0.00	0.0
B-70		Radiant 8S 16D700_W244S	100 %	186.50	3.50	5.90	0.0	-0.0	0.0	186.50	3.50	-0.00	0.0
B-71		Radiant 8S 16D700_W244S	100 %	197.00	3.50	5.90	0.0	-0.0	0.0	197.00	3.50	-0.00	0.0
B-72		Radiant 8S 16D700_W244S	100 %	207.50	3.50	5.90	0.0	-0.0	0.0	207.50	3.50	-0.00	0.0
B-73		Radiant 8S 16D700_W244S	100 %	218.00	3.50	5.90	0.0	-0.0	0.0	218.00	3.50	-0.00	0.0
B-74		Radiant 8S 16D700_W244S	100 %	228.50	3.50	5.90	0.0	-0.0	0.0	228.50	3.50	-0.00	0.0
B-75		Radiant 8S 16D700_W244S	100 %	239.00	3.50	5.90	0.0	-0.0	0.0	239.00	3.50	-0.00	0.0
B-76		Radiant 8S 16D700_W244S	100 %	249.50	3.50	5.90	0.0	-0.0	0.0	249.50	3.50	-0.00	0.0
B-77		Radiant 8S 16D700_W244S	100 %	260.00	3.50	5.90	0.0	-0.0	0.0	260.00	3.50	-0.00	0.0
B-78		Radiant 8S 16D700_W244S	100 %	270.50	3.50	5.90	0.0	-0.0	0.0	270.50	3.50	-0.00	0.0
B-79		Radiant 8S 16D700_W244S	100 %	281.00	3.50	5.90	0.0	-0.0	0.0	281.00	3.50	-0.00	0.0
B-80		Radiant 8S 16D700_W244S	100 %	291.50	3.50	5.90	0.0	-0.0	0.0	291.50	3.50	-0.00	0.0
B-81		Radiant 8S 16D700_W244S	100 %	302.00	3.50	5.90	0.0	-0.0	0.0	302.00	3.50	-0.00	0.0
B-82		Radiant 8S 16D700_W244S	100 %	312.50	3.50	5.90	0.0	-0.0	0.0	312.50	3.50	-0.00	0.0
B-83		Radiant 8S 16D700_W244S	100 %	323.00	3.50	5.90	0.0	-0.0	0.0	323.00	3.50	-0.00	0.0
B-84		Radiant 8S 16D700_W244S	100 %	333.50	3.50	5.90	0.0	-0.0	0.0	333.50	3.50	-0.00	0.0
B-85		Radiant 8S 16D700_W244S	100 %	344.00	3.50	5.90	0.0	-0.0	0.0	344.00	3.50	-0.00	0.0
B-86		Radiant 8S 16D700_W244S	100 %	354.50	3.50	5.90	0.0	-0.0	0.0	354.50	3.50	-0.00	0.0
B-87		Radiant 8S 16D700_W244S	100 %	365.00	3.50	5.90	0.0	-0.0	0.0	365.00	3.50	-0.00	0.0
B-88		Radiant 8S 16D700_W244S	100 %	375.50	3.50	5.90	0.0	-0.0	0.0	375.50	3.50	-0.00	0.0
B-89		Radiant 8S 16D700_W244S	100 %	386.00	3.50	5.90	0.0	-0.0	0.0	386.00	3.50	-0.00	0.0
B-90		Radiant 8S 16D700_W244S	100 %	396.50	3.50	5.90	0.0	-0.0	0.0	396.50	3.50	-0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
B-91		Radiant 8S 16D700_W244S	100 %	407.00	3.50	5.90	0.0	-0.0	0.0	407.00	3.50	-0.00	0.0
B-92		Radiant 8S 16D700_W244S	100 %	417.50	3.50	5.90	0.0	-0.0	0.0	417.50	3.50	-0.00	0.0
B-93		Radiant 8S 16D700_W244S	100 %	428.00	3.50	5.90	0.0	-0.0	0.0	428.00	3.50	-0.00	0.0
B-94		Radiant 8S 16D700_W244S	100 %	438.50	3.50	5.90	0.0	-0.0	0.0	438.50	3.50	-0.00	0.0
B-95		Radiant 8S 16D700_W244S	100 %	449.00	3.50	5.90	0.0	-0.0	0.0	449.00	3.50	-0.00	0.0
B-96		Radiant 8S 16D700_W244S	100 %	459.50	3.50	5.90	0.0	-0.0	0.0	459.50	3.50	-0.00	0.0
B-97		Radiant 8S 16D700_W244S	100 %	470.00	3.50	5.90	0.0	-0.0	0.0	470.00	3.50	-0.00	0.0
B-98		Radiant 8S 16D700_W244S	100 %	480.50	3.50	5.90	0.0	-0.0	0.0	480.50	3.50	-0.00	0.0
B-99		Radiant 8S 16D700_W244S	100 %	491.00	3.50	5.90	0.0	-0.0	0.0	491.00	3.50	-0.00	0.0
B-100		Radiant 8S 16D700_W244S	100 %	501.50	3.50	5.90	0.0	-0.0	0.0	501.50	3.50	-0.00	0.0
B-101		Radiant 8S 16D700_W244S	100 %	512.00	3.50	5.90	0.0	-0.0	0.0	512.00	3.50	-0.00	0.0
B-102		Radiant 8S 16D700_W244S	100 %	522.50	3.50	5.90	0.0	-0.0	0.0	522.50	3.50	-0.00	0.0
B-103		Radiant 8S 16D700_W244S	100 %	533.00	3.50	5.90	0.0	-0.0	0.0	533.00	3.50	-0.00	0.0
B-104		Radiant 8S 16D700_W244S	100 %	543.50	3.50	5.90	0.0	-0.0	0.0	543.50	3.50	-0.00	0.0
B-105		Radiant 8S 16D700_W244S	100 %	554.00	3.50	5.90	0.0	-0.0	0.0	554.00	3.50	-0.00	0.0
B-106		Radiant 8S 16D700_W244S	100 %	564.50	3.50	5.90	0.0	-0.0	0.0	564.50	3.50	-0.00	0.0
B-107		Radiant 8S 16D700_W244S	100 %	575.00	3.50	5.90	0.0	-0.0	0.0	575.00	3.50	-0.00	0.0
B-108		Radiant 8S 16D700_W244S	100 %	585.50	3.50	5.90	0.0	-0.0	0.0	585.50	3.50	-0.00	0.0
C-1		Radiant 8S 16D600_W279A	100 %	29.00	15.81	5.45	0.0	-0.0	0.0	29.00	15.81	0.00	0.0
C-2		Radiant 8S 16D600_W279A	100 %	39.50	15.81	5.45	0.0	-0.0	0.0	39.50	15.81	0.00	0.0
C-3		Radiant 8S 16D600_W279A	100 %	50.00	15.81	5.45	0.0	-0.0	0.0	50.00	15.81	0.00	0.0
C-4		Radiant 8S 16D600_W279A	100 %	60.50	15.81	5.45	0.0	-0.0	0.0	60.50	15.81	0.00	0.0
C-5		Radiant 8S 16D600_W279A	100 %	71.00	15.81	5.45	0.0	-0.0	0.0	71.00	15.81	0.00	0.0
C-6		Radiant 8S 16D600_W279A	100 %	81.50	15.81	5.45	0.0	-0.0	0.0	81.50	15.81	0.00	0.0
C-7		Radiant 8S 16D600_W279A	100 %	92.00	15.81	5.45	0.0	-0.0	0.0	92.00	15.81	0.00	0.0
C-8		Radiant 8S 16D600_W279A	100 %	102.50	15.81	5.45	0.0	-0.0	0.0	102.50	15.81	0.00	0.0
C-9		Radiant 8S 16D600_W279A	100 %	113.00	15.81	5.45	0.0	-0.0	0.0	113.00	15.81	0.00	0.0
C-10		Radiant 8S 16D600_W279A	100 %	123.50	15.81	5.45	0.0	-0.0	0.0	123.50	15.81	0.00	0.0
C-11		Radiant 8S 16D600_W279A	100 %	134.00	15.81	5.45	0.0	-0.0	0.0	134.00	15.81	0.00	0.0
C-12		Radiant 8S 16D600_W279A	100 %	144.50	15.81	5.45	0.0	-0.0	0.0	144.50	15.81	0.00	0.0
C-13		Radiant 8S 16D600_W279A	100 %	155.00	15.81	5.45	0.0	-0.0	0.0	155.00	15.81	0.00	0.0
C-14		Radiant 8S 16D600_W279A	100 %	165.50	15.81	5.45	0.0	-0.0	0.0	165.50	15.81	0.00	0.0
C-15		Radiant 8S 16D600_W279A	100 %	176.00	15.81	5.45	0.0	-0.0	0.0	176.00	15.81	0.00	0.0
C-16		Radiant 8S 16D600_W279A	100 %	186.50	15.81	5.45	0.0	-0.0	0.0	186.50	15.81	0.00	0.0
C-17		Radiant 8S 16D600_W279A	100 %	197.00	15.81	5.45	0.0	-0.0	0.0	197.00	15.81	0.00	0.0
C-18		Radiant 8S 16D600_W279A	100 %	207.50	15.81	5.45	0.0	-0.0	0.0	207.50	15.81	0.00	0.0
C-19		Radiant 8S 16D600_W279A	100 %	218.00	15.81	5.45	0.0	-0.0	0.0	218.00	15.81	0.00	0.0
C-20		Radiant 8S 16D600_W279A	100 %	228.50	15.81	5.45	0.0	-0.0	0.0	228.50	15.81	0.00	0.0
C-21		Radiant 8S 16D600_W279A	100 %	239.00	15.81	5.45	0.0	-0.0	0.0	239.00	15.81	0.00	0.0
C-22		Radiant 8S 16D600_W279A	100 %	249.50	15.81	5.45	0.0	-0.0	0.0	249.50	15.81	0.00	0.0
C-23		Radiant 8S 16D600_W279A	100 %	260.00	15.81	5.45	0.0	-0.0	0.0	260.00	15.81	0.00	0.0
C-24		Radiant 8S 16D600_W279A	100 %	270.50	15.81	5.45	0.0	-0.0	0.0	270.50	15.81	0.00	0.0
C-25		Radiant 8S 16D600_W279A	100 %	281.00	15.81	5.45	0.0	-0.0	0.0	281.00	15.81	0.00	0.0
C-26		Radiant 8S 16D600_W279A	100 %	291.50	15.81	5.45	0.0	-0.0	0.0	291.50	15.81	0.00	0.0
C-27		Radiant 8S 16D600_W279A	100 %	302.00	15.81	5.45	0.0	-0.0	0.0	302.00	15.81	0.00	0.0
C-28		Radiant 8S 16D600_W279A	100 %	312.50	15.81	5.45	0.0	-0.0	0.0	312.50	15.81	0.00	0.0
C-29		Radiant 8S 16D600_W279A	100 %	323.00	15.81	5.45	0.0	-0.0	0.0	323.00	15.81	0.00	0.0
C-30		Radiant 8S 16D600_W279A	100 %	333.50	15.81	5.45	0.0	-0.0	0.0	333.50	15.81	0.00	0.0
C-31		Radiant 8S 16D600_W279A	100 %	344.00	15.81	5.45	0.0	-0.0	0.0	344.00	15.81	0.00	0.0
C-32		Radiant 8S 16D600_W279A	100 %	354.50	15.81	5.45	0.0	-0.0	0.0	354.50	15.81	0.00	0.0
C-33		Radiant 8S 16D600_W279A	100 %	365.00	15.81	5.45	0.0	-0.0	0.0	365.00	15.81	0.00	0.0
C-34		Radiant 8S 16D600_W279A	100 %	375.50	15.81	5.45	0.0	-0.0	0.0	375.50	15.81	0.00	0.0
C-35		Radiant 8S 16D600_W279A	100 %	386.00	15.81	5.45	0.0	-0.0	0.0	386.00	15.81	0.00	0.0
C-36		Radiant 8S 16D600_W279A	100 %	396.50	15.81	5.45	0.0	-0.0	0.0	396.50	15.81	0.00	0.0
C-37		Radiant 8S 16D600_W279A	100 %	407.00	15.81	5.45	0.0	-0.0	0.0	407.00	15.81	0.00	0.0
C-38		Radiant 8S 16D600_W279A	100 %	417.50	15.81	5.45	0.0	-0.0	0.0	417.50	15.81	0.00	0.0
C-39		Radiant 8S 16D600_W279A	100 %	428.00	15.81	5.45	0.0	-0.0	0.0	428.00	15.81	0.00	0.0
C-40		Radiant 8S 16D600_W279A	100 %	438.50	15.81	5.45	0.0	-0.0	0.0	438.50	15.81	0.00	0.0
C-41		Radiant 8S 16D600_W279A	100 %	449.00	15.81	5.45	0.0	-0.0	0.0	449.00	15.81	0.00	0.0
C-42		Radiant 8S 16D600_W279A	100 %	459.50	15.81	5.45	0.0	-0.0	0.0	459.50	15.81	0.00	0.0
C-43		Radiant 8S 16D600_W279A	100 %	470.00	15.81	5.45	0.0	-0.0	0.0	470.00	15.81	0.00	0.0
C-44		Radiant 8S 16D600_W279A	100 %	480.50	15.81	5.45	0.0	-0.0	0.0	480.50	15.81	0.00	0.0
C-45		Radiant 8S 16D600_W279A	100 %	491.00	15.81	5.45	0.0	-0.0	0.0	491.00	15.81	0.00	0.0
C-46		Radiant 8S 16D600_W279A	100 %	501.50	15.81	5.45	0.0	-0.0	0.0	501.50	15.81	0.00	0.0
C-47		Radiant 8S 16D600_W279A	100 %	512.00	15.81	5.45	0.0	-0.0	0.0	512.00	15.81	0.00	0.0
C-48		Radiant 8S 16D600_W279A	100 %	522.50	15.81	5.45	0.0	-0.0	0.0	522.50	15.81	0.00	0.0
C-49		Radiant 8S 16D600_W279A	100 %	533.00	15.81	5.45	0.0	-0.0	0.0	533.00	15.81	0.00	0.0
C-50		Radiant 8S 16D600_W279A	100 %	543.50	15.81	5.45	0.0	-0.0	0.0	543.50	15.81	0.00	0.0
C-51		Radiant 8S 16D600_W279A	100 %	554.00	15.81	5.45	0.0	-0.0	0.0	554.00	15.81	0.00	0.0
C-52		Radiant 8S 16D600_W279A	100 %	564.50	15.81	5.45	0.0	-0.0	0.0	564.50	15.81	0.00	0.0

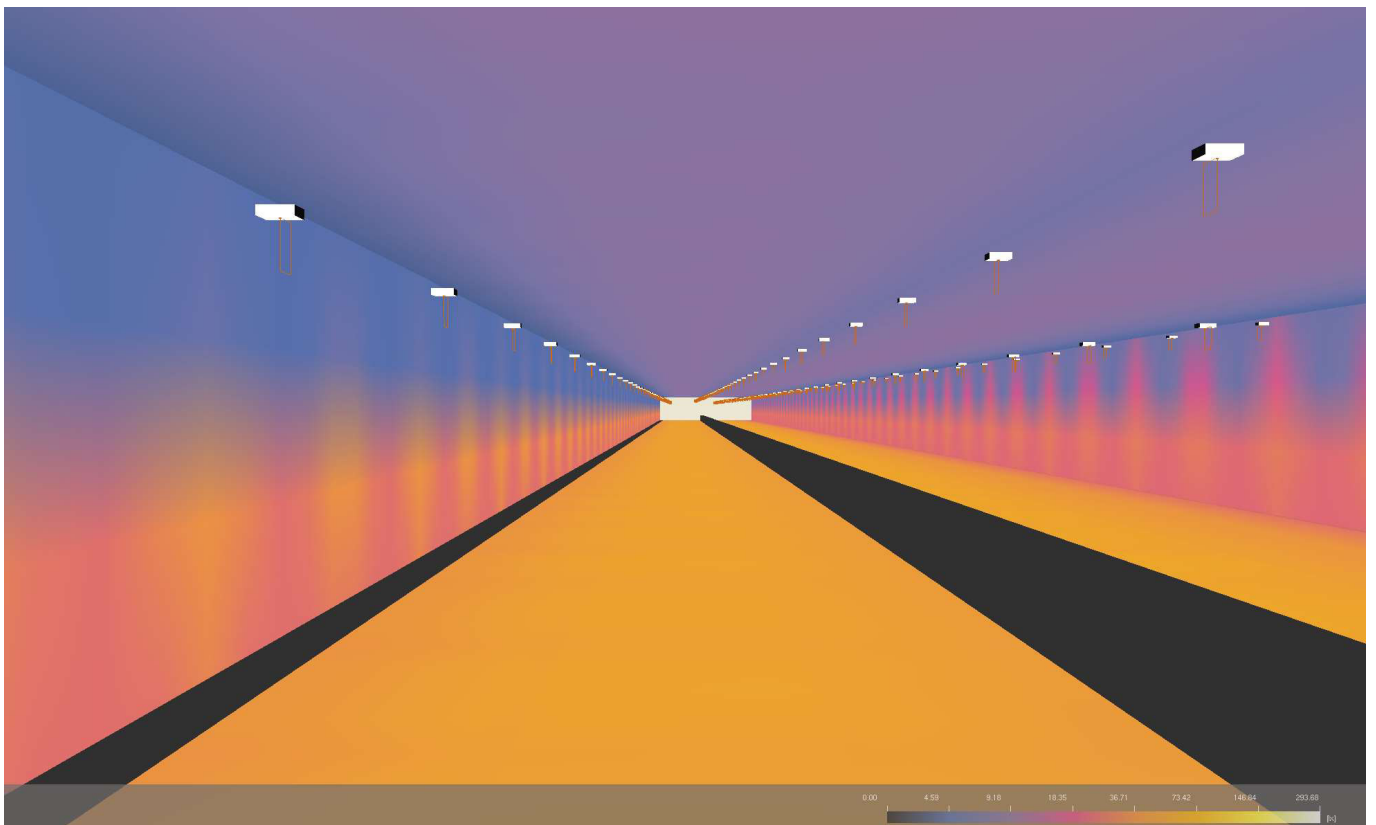
Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
C-53		Radiant 8S 16D600_W279A	100 %	575.00	15.81	5.45	0.0	-0.0	0.0	575.00	15.81	0.00	0.0
C-54		Radiant 8S 16D600_W279A	100 %	585.50	15.81	5.45	0.0	-0.0	0.0	585.50	15.81	0.00	0.0
C-55		Radiant 8S 16D600_W279A	100 %	29.00	10.50	5.00	0.0	-0.0	180.0	29.00	10.50	0.00	0.0
C-56		Radiant 8S 16D600_W279A	100 %	39.50	10.50	5.00	0.0	-0.0	180.0	39.50	10.50	0.00	0.0
C-57		Radiant 8S 16D600_W279A	100 %	50.00	10.50	5.00	0.0	-0.0	180.0	50.00	10.50	0.00	0.0
C-58		Radiant 8S 16D600_W279A	100 %	60.50	10.50	5.00	0.0	-0.0	180.0	60.50	10.50	0.00	0.0
C-59		Radiant 8S 16D600_W279A	100 %	71.00	10.50	5.00	0.0	-0.0	180.0	71.00	10.50	0.00	0.0
C-60		Radiant 8S 16D600_W279A	100 %	81.50	10.50	5.00	0.0	-0.0	180.0	81.50	10.50	0.00	0.0
C-61		Radiant 8S 16D600_W279A	100 %	92.00	10.50	5.00	0.0	-0.0	180.0	92.00	10.50	0.00	0.0
C-62		Radiant 8S 16D600_W279A	100 %	102.50	10.50	5.00	0.0	-0.0	180.0	102.50	10.50	0.00	0.0
C-63		Radiant 8S 16D600_W279A	100 %	113.00	10.50	5.00	0.0	-0.0	180.0	113.00	10.50	0.00	0.0
C-64		Radiant 8S 16D600_W279A	100 %	123.50	10.50	5.00	0.0	-0.0	180.0	123.50	10.50	0.00	0.0
C-65		Radiant 8S 16D600_W279A	100 %	134.00	10.50	5.00	0.0	-0.0	180.0	134.00	10.50	0.00	0.0
C-66		Radiant 8S 16D600_W279A	100 %	144.50	10.50	5.00	0.0	-0.0	180.0	144.50	10.50	0.00	0.0
C-67		Radiant 8S 16D600_W279A	100 %	155.00	10.50	5.00	0.0	-0.0	180.0	155.00	10.50	0.00	0.0
C-68		Radiant 8S 16D600_W279A	100 %	165.50	10.50	5.00	0.0	-0.0	180.0	165.50	10.50	0.00	0.0
C-69		Radiant 8S 16D600_W279A	100 %	176.00	10.50	5.00	0.0	-0.0	180.0	176.00	10.50	0.00	0.0
C-70		Radiant 8S 16D600_W279A	100 %	186.50	10.50	5.00	0.0	-0.0	180.0	186.50	10.50	0.00	0.0
C-71		Radiant 8S 16D600_W279A	100 %	197.00	10.50	5.00	0.0	-0.0	180.0	197.00	10.50	0.00	0.0
C-72		Radiant 8S 16D600_W279A	100 %	207.50	10.50	5.00	0.0	-0.0	180.0	207.50	10.50	0.00	0.0
C-73		Radiant 8S 16D600_W279A	100 %	218.00	10.50	5.00	0.0	-0.0	180.0	218.00	10.50	0.00	0.0
C-74		Radiant 8S 16D600_W279A	100 %	228.50	10.50	5.00	0.0	-0.0	180.0	228.50	10.50	0.00	0.0
C-75		Radiant 8S 16D600_W279A	100 %	239.00	10.50	5.00	0.0	-0.0	180.0	239.00	10.50	0.00	0.0
C-76		Radiant 8S 16D600_W279A	100 %	249.50	10.50	5.00	0.0	-0.0	180.0	249.50	10.50	0.00	0.0
C-77		Radiant 8S 16D600_W279A	100 %	260.00	10.50	5.00	0.0	-0.0	180.0	260.00	10.50	0.00	0.0
C-78		Radiant 8S 16D600_W279A	100 %	270.50	10.50	5.00	0.0	-0.0	180.0	270.50	10.50	0.00	0.0
C-79		Radiant 8S 16D600_W279A	100 %	281.00	10.50	5.00	0.0	-0.0	180.0	281.00	10.50	0.00	0.0
C-80		Radiant 8S 16D600_W279A	100 %	291.50	10.50	5.00	0.0	-0.0	180.0	291.50	10.50	0.00	0.0
C-81		Radiant 8S 16D600_W279A	100 %	302.00	10.50	5.00	0.0	-0.0	180.0	302.00	10.50	0.00	0.0
C-82		Radiant 8S 16D600_W279A	100 %	312.50	10.50	5.00	0.0	-0.0	180.0	312.50	10.50	0.00	0.0
C-83		Radiant 8S 16D600_W279A	100 %	323.00	10.50	5.00	0.0	-0.0	180.0	323.00	10.50	0.00	0.0
C-84		Radiant 8S 16D600_W279A	100 %	333.50	10.50	5.00	0.0	-0.0	180.0	333.50	10.50	0.00	0.0
C-85		Radiant 8S 16D600_W279A	100 %	344.00	10.50	5.00	0.0	-0.0	180.0	344.00	10.50	0.00	0.0
C-86		Radiant 8S 16D600_W279A	100 %	354.50	10.50	5.00	0.0	-0.0	180.0	354.50	10.50	0.00	0.0
C-87		Radiant 8S 16D600_W279A	100 %	365.00	10.50	5.00	0.0	-0.0	180.0	365.00	10.50	0.00	0.0
C-88		Radiant 8S 16D600_W279A	100 %	375.50	10.50	5.00	0.0	-0.0	180.0	375.50	10.50	0.00	0.0
C-89		Radiant 8S 16D600_W279A	100 %	386.00	10.50	5.00	0.0	-0.0	180.0	386.00	10.50	0.00	0.0
C-90		Radiant 8S 16D600_W279A	100 %	396.50	10.50	5.00	0.0	-0.0	180.0	396.50	10.50	0.00	0.0
C-91		Radiant 8S 16D600_W279A	100 %	407.00	10.50	5.00	0.0	-0.0	180.0	407.00	10.50	0.00	0.0
C-92		Radiant 8S 16D600_W279A	100 %	417.50	10.50	5.00	0.0	-0.0	180.0	417.50	10.50	0.00	0.0
C-93		Radiant 8S 16D600_W279A	100 %	428.00	10.50	5.00	0.0	-0.0	180.0	428.00	10.50	0.00	0.0
C-94		Radiant 8S 16D600_W279A	100 %	438.50	10.50	5.00	0.0	-0.0	180.0	438.50	10.50	0.00	0.0
C-95		Radiant 8S 16D600_W279A	100 %	449.00	10.50	5.00	0.0	-0.0	180.0	449.00	10.50	0.00	0.0
C-96		Radiant 8S 16D600_W279A	100 %	459.50	10.50	5.00	0.0	-0.0	180.0	459.50	10.50	0.00	0.0
C-97		Radiant 8S 16D600_W279A	100 %	470.00	10.50	5.00	0.0	-0.0	180.0	470.00	10.50	0.00	0.0
C-98		Radiant 8S 16D600_W279A	100 %	480.50	10.50	5.00	0.0	-0.0	180.0	480.50	10.50	0.00	0.0
C-99		Radiant 8S 16D600_W279A	100 %	491.00	10.50	5.00	0.0	-0.0	180.0	491.00	10.50	0.00	0.0
C-100		Radiant 8S 16D600_W279A	100 %	501.50	10.50	5.00	0.0	-0.0	180.0	501.50	10.50	0.00	0.0
C-101		Radiant 8S 16D600_W279A	100 %	512.00	10.50	5.00	0.0	-0.0	180.0	512.00	10.50	0.00	0.0
C-102		Radiant 8S 16D600_W279A	100 %	522.50	10.50	5.00	0.0	-0.0	180.0	522.50	10.50	0.00	0.0
C-103		Radiant 8S 16D600_W279A	100 %	533.00	10.50	5.00	0.0	-0.0	180.0	533.00	10.50	0.00	0.0
C-104		Radiant 8S 16D600_W279A	100 %	543.50	10.50	5.00	0.0	-0.0	180.0	543.50	10.50	0.00	0.0
C-105		Radiant 8S 16D600_W279A	100 %	554.00	10.50	5.00	0.0	-0.0	180.0	554.00	10.50	0.00	0.0
C-106		Radiant 8S 16D600_W279A	100 %	564.50	10.50	5.00	0.0	-0.0	180.0	564.50	10.50	0.00	0.0
C-107		Radiant 8S 16D600_W279A	100 %	575.00	10.50	5.00	0.0	-0.0	180.0	575.00	10.50	0.00	0.0
C-108		Radiant 8S 16D600_W279A	100 %	585.50	10.50	5.00	0.0	-0.0	180.0	585.50	10.50	0.00	0.0

4. Immagini

4.1 Immagini



4.2 Immagini



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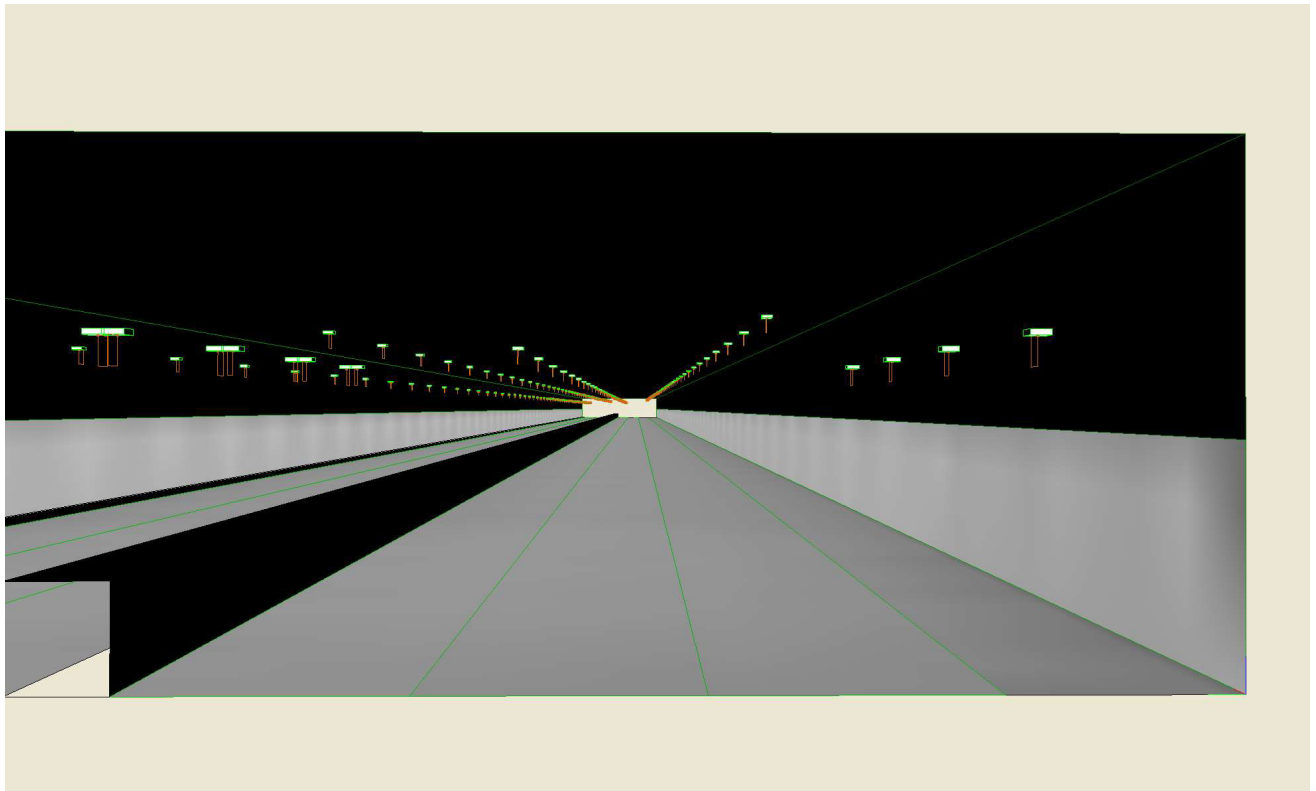
Galleria San Donnino

Note Installazione: Permanente - Tangenziale - Sezione 1
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 14/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria da 4.93m a 5.4m
Fattore di manutenzione 80%
H. corpi illuminanti 4.31m e 4.31m

Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

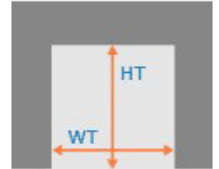
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

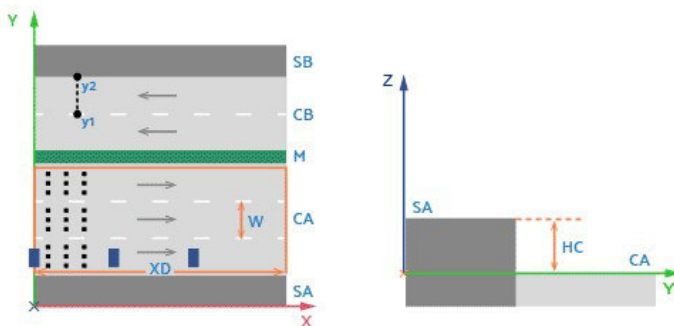
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice	Cubo (A)
Larghezza (WT)	25.81 m
Altezza (HT)	6.61 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%

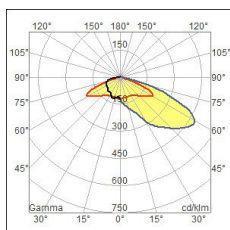


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Carreggiata	Carrabile	Corsia d'Emergenz	--->	2.84	0.00	2.84	3	3	0.00	C2	0.0560
2. Tangenziale	Carrabile			10.50	2.84	13.34	7		0.00	C2	0.0560
	2.1	Corsia 1	--->	3.50	2.84	6.34		3			
	2.2	Corsia 2	--->	3.50	6.34	9.84		3			
	2.3	Corsia 3	--->	3.50	9.84	13.34		3			
3. Mediana Centra	Secondaria	Mediana Centrale	--->	1.25	13.34	14.59	3	3	1.35		0.0000
4. Autostrada A14	Carrabile			10.50	14.59	25.09	7		0.00	C2	0.0560
	4.1	Corsia 1	--->	3.50	14.59	18.09		3			
	4.2	Corsia 2	--->	3.50	18.09	21.59		3			
	4.3	Corsia 3	--->	3.50	21.59	25.09		3			
5. Marciapiede B	Pista Ciclo/Pedona	Marciapiede	--->	0.72	25.09	25.81	3	3	0.15		0.3000

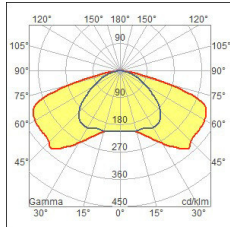


1.2 Informazioni Apparecchi/Rilievi

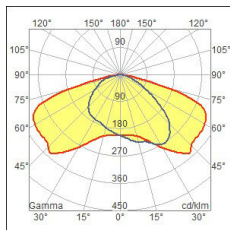
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	3101.00	0.80	100 %	255,255,255	16	Sorg-A	1



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coef. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	108	Sorg-B	1



C	Detas SpA Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	4452.00	0.80	100 %	255,255,255	108	Sorg-C	1
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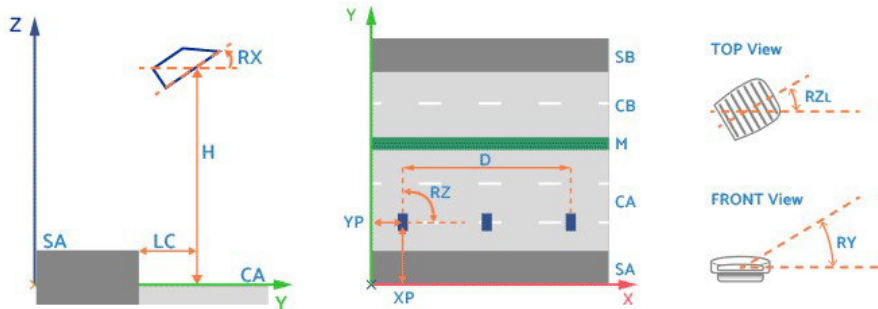


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		16D440 22W	16D440 22W	22.00	0.0000	3101	6000	16
Sorg-B		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	108
Sorg-C		16D600 30W	16D600 30W	30.00	0.0000	4452	6000	108

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altezz.App. [m] (H)	Num. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila A	A		2.00	2.00	4.31	4	6.50	0.00	19.50	0	0	0
Fila B	A		2.00	13.84	4.31	4	6.50	0.00	19.50	0	180	-0
Fila B	A		2.00	14.09	4.31	4	6.50	0.00	19.50	0	0	-0
Fila B	A		2.00	25.59	4.31	4	6.50	0.00	19.50	0	180	-0
Fila B	B		29.00	3.50	5.90	54	10.50	0.00	556.50	0	0	-0
Fila B	C		29.00	10.50	5.00	54	10.50	0.00	556.50	0	180	-0
Fila B	C		29.00	15.81	5.45	54	10.50	0.00	556.50	0	0	-0
Fila B	B		29.00	22.81	5.00	54	10.50	0.00	556.50	0	0	-0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Carreggiata	Risultati	LAV = 1.83 cd/m ²	Uo(L) = 0.33	UL = 0.36	fTI = 6 %
	Oss. 1) [x=-60.00 y=1.42] m Oss.Ti [x=90.27 y=1.42] m Lv = 0.18	LAV = 1.83 cd/m ² *	Uo(L) = 0.33 *	UL = 0.36 *	fTI = 5.63 % *
2 - Tangenziale	Risultati	LAV = 2.61 cd/m ²	Uo(L) = 0.33	UL = 0.31	fTI = 6 %
	Oss. 1) [x=-60.00 y=4.59] m	LAV = 2.62 cd/m ²	Uo(L) = 0.33 *	UL = 0.31 *	fTI = 5.60 % fTI = 6.16 % fTI = 6.20 % *
	Oss. 2) [x=-60.00 y=8.09] m	LAV = 2.62 cd/m ²	Uo(L) = 0.33	UL = 0.41	
	Oss. 3) [x=-60.00 y=11.59] m	LAV = 2.61 cd/m ² *	Uo(L) = 0.33	UL = 0.32	
	Oss.Ti 1) [x=90.27 y=4.59] m				
	Oss.Ti 2) [x=40.27 y=8.09] m				
Oss.Ti 3) [x=40.27 y=11.59] m Lv = 0.25					
4 - Autostrada A14	Risultati	LAV = 2.61 cd/m ²	Uo(L) = 0.34	UL = 0.30	fTI = 8 %
	Oss. 1) [x=-60.00 y=16.34] m	LAV = 2.61 cd/m ² *	Uo(L) = 0.34	UL = 0.30 *	fTI = 6.78 % fTI = 6.16 % fTI = 7.73 % *
	Oss. 2) [x=-60.00 y=19.84] m	LAV = 2.63 cd/m ²	Uo(L) = 0.34	UL = 0.41	
	Oss. 3) [x=-60.00 y=23.34] m	LAV = 2.64 cd/m ²	Uo(L) = 0.34 *	UL = 0.30	
	Oss.Ti 1) [x=28.27 y=16.34] m				
	Oss.Ti 2) [x=574.27 y=19.84] m				
Oss.Ti 3) [x=40.27 y=23.34] m Lv = 0.31					
5 - Marciapiede B	Risultati	EAV = 35.9 lux	EMIN = 22.22 lux		

Riepilogo Uniformità di Luminan.

Sezione Permanente	[10.00..580.00] m	(Luminanza Costante)		
Parete Destra	LAV%,(pd/c,o1) = 158.1 %	LAV,pd=2.92 cd/m ²	Uo,pd=0.66	Ul,pd=0.58 (y=1.70 m)
Parete Sinistra	LAV%,(ps/c,o1) = 187.4 %	LAV,ps=3.46 cd/m ²	Uo,ps=0.40	Ul,ps=0.33 (y=1.70 m)
1 - Carreggiata	-->	LAV,c,o1=1.85 cd/m ²	Uo,c,o1=0.60	Ul,o1=0.81 (y=1.42 m)
2 - Tangenziale	-->	LAV,c,o3=2.64 cd/m ²	Uo,c,o2=0.75	Ul,o1=0.72 (y=4.59 m)
-->	Oss. 1) [x=-60.00 y=4.59] m	LAV,c,o1=2.64 cd/m ²	Uo,c,o1=0.75	Ul,o1=0.72 (y=4.59 m) *
-->	Oss. 2) [x=-60.00 y=8.09] m	LAV,c,o2=2.65 cd/m ²	Uo,c,o2=0.75 *	Ul,o2=0.77 (y=8.09 m)
-->	Oss. 3) [x=-60.00 y=11.59] m	LAV,c,o3=2.64 cd/m ² *	Uo,c,o3=0.76	Ul,o3=0.73 (y=11.59 m)
4 - Autostrada A14	-->	LAV,c,o1=2.63 cd/m ²	Uo,c,o1=0.64	Ul,o1=0.69 (y=16.34 m)
-->	Oss. 1) [x=-60.00 y=16.34] m	LAV,c,o1=2.63 cd/m ² *	Uo,c,o1=0.64 *	Ul,o1=0.69 (y=16.34 m)
-->	Oss. 2) [x=-60.00 y=19.84] m	LAV,c,o2=2.66 cd/m ²	Uo,c,o2=0.69	Ul,o2=0.81 (y=19.84 m)
-->	Oss. 3) [x=-60.00 y=23.34] m	LAV,c,o3=2.67 cd/m ²	Uo,c,o3=0.74	Ul,o3=0.74 (y=23.34 m)
5 - Marciapiede B	LAV%,(ms/c,o1) = 186.5 %	LAV,ms,o1=3.44 cd/m ²	Uo,ms,o1=0.78	Ul,o1=0.78 (y=25.45 m)

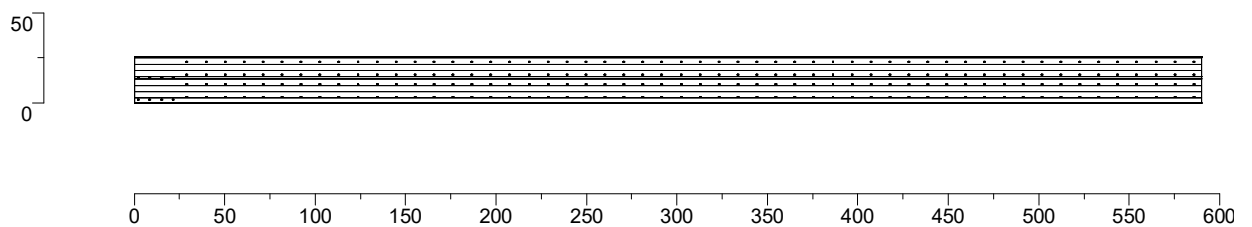
pd: Parete Destra ps: Parete Sinistra c: Carreggiata cm: Corsie di Marcia
md: Marciapiede Destro ms: Marciapiede Sinistro o: Osservatore

Inquinamento Luminoso

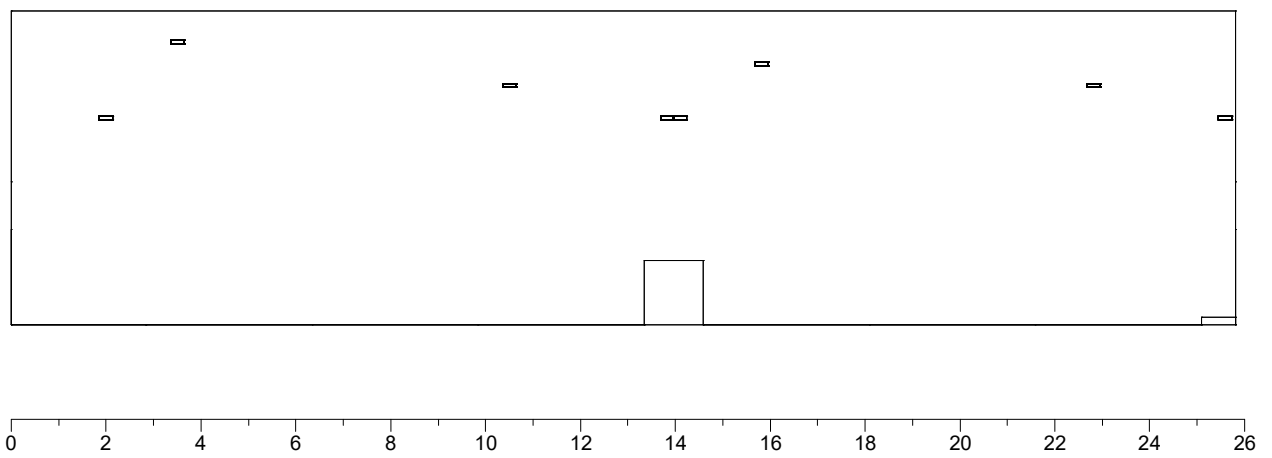
Rapporto Medio - Rn -
0.01 %

2. Viste Ambiente

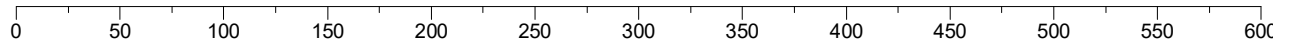
2.1 Vista 2D in Pianta



2.2 Vista Laterale

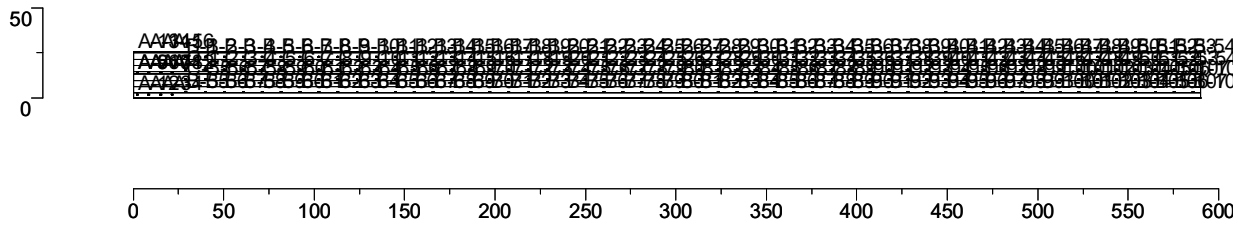


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	2.00	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-2	100 %	8.50	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-3	100 %	15.00	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-4	100 %	21.50	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-5	100 %	2.00	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-6	100 %	8.50	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-7	100 %	15.00	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-8	100 %	21.50	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-9	100 %	2.00	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-10	100 %	8.50	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-11	100 %	15.00	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-12	100 %	21.50	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-13	100 %	2.00	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-14	100 %	8.50	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-15	100 %	15.00	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-16	100 %	21.50	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-1	100 %	29.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-2	100 %	39.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-3	100 %	50.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-4	100 %	60.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-5	100 %	71.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-6	100 %	81.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-7	100 %	92.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-8	100 %	102.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-9	100 %	113.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-10	100 %	123.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-11	100 %	134.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-12	100 %	144.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-13	100 %	155.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-14	100 %	165.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-15	100 %	176.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-16	100 %	186.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-17	100 %	197.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-18	100 %	207.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-19	100 %	218.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-20	100 %	228.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-21	100 %	239.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-22	100 %	249.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-23	100 %	260.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-24	100 %	270.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-25	100 %	281.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-26	100 %	291.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-27	100 %	302.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-28	100 %	312.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-29	100 %	323.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-30	100 %	333.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-31	100 %	344.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-32	100 %	354.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-33	100 %	365.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-34	100 %	375.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-35	100 %	386.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-36	100 %	396.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-37	100 %	407.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-38	100 %	417.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-39	100 %	428.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-40	100 %	438.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-41	100 %	449.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-42	100 %	459.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-43	100 %	470.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-44	100 %	480.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-45	100 %	491.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-46	100 %	501.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-47	100 %	512.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-48	100 %	522.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-49	100 %	533.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-50	100 %	543.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-51	100 %	554.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
B-52	100 %	564.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-53	100 %	575.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-54	100 %	585.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-55	100 %	29.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-56	100 %	39.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-57	100 %	50.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-58	100 %	60.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-59	100 %	71.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-60	100 %	81.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-61	100 %	92.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-62	100 %	102.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-63	100 %	113.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-64	100 %	123.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-65	100 %	134.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-66	100 %	144.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-67	100 %	155.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-68	100 %	165.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-69	100 %	176.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-70	100 %	186.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-71	100 %	197.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-72	100 %	207.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-73	100 %	218.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-74	100 %	228.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-75	100 %	239.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-76	100 %	249.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-77	100 %	260.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-78	100 %	270.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-79	100 %	281.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-80	100 %	291.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-81	100 %	302.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-82	100 %	312.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-83	100 %	323.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-84	100 %	333.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-85	100 %	344.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-86	100 %	354.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-87	100 %	365.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-88	100 %	375.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-89	100 %	386.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-90	100 %	396.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-91	100 %	407.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-92	100 %	417.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-93	100 %	428.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-94	100 %	438.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-95	100 %	449.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-96	100 %	459.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-97	100 %	470.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-98	100 %	480.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-99	100 %	491.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-100	100 %	501.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-101	100 %	512.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-102	100 %	522.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-103	100 %	533.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-104	100 %	543.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-105	100 %	554.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-106	100 %	564.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-107	100 %	575.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-108	100 %	585.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-1	100 %	29.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-2	100 %	39.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-3	100 %	50.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-4	100 %	60.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-5	100 %	71.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-6	100 %	81.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-7	100 %	92.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-8	100 %	102.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-9	100 %	113.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-10	100 %	123.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-11	100 %	134.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-12	100 %	144.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-13	100 %	155.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
C-14	100 %	165.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-15	100 %	176.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-16	100 %	186.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-17	100 %	197.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-18	100 %	207.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-19	100 %	218.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-20	100 %	228.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-21	100 %	239.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-22	100 %	249.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-23	100 %	260.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-24	100 %	270.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-25	100 %	281.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-26	100 %	291.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-27	100 %	302.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-28	100 %	312.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-29	100 %	323.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-30	100 %	333.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-31	100 %	344.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-32	100 %	354.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-33	100 %	365.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-34	100 %	375.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-35	100 %	386.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-36	100 %	396.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-37	100 %	407.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-38	100 %	417.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-39	100 %	428.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-40	100 %	438.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-41	100 %	449.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-42	100 %	459.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-43	100 %	470.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-44	100 %	480.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-45	100 %	491.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-46	100 %	501.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-47	100 %	512.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-48	100 %	522.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-49	100 %	533.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-50	100 %	543.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-51	100 %	554.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-52	100 %	564.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-53	100 %	575.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-54	100 %	585.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-55	100 %	29.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-56	100 %	39.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-57	100 %	50.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-58	100 %	60.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-59	100 %	71.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-60	100 %	81.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-61	100 %	92.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-62	100 %	102.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-63	100 %	113.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-64	100 %	123.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-65	100 %	134.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-66	100 %	144.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-67	100 %	155.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-68	100 %	165.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-69	100 %	176.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-70	100 %	186.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-71	100 %	197.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-72	100 %	207.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-73	100 %	218.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-74	100 %	228.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-75	100 %	239.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-76	100 %	249.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-77	100 %	260.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-78	100 %	270.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-79	100 %	281.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-80	100 %	291.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-81	100 %	302.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-82	100 %	312.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-83	100 %	323.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
C-84	100 %	333.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-85	100 %	344.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-86	100 %	354.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-87	100 %	365.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-88	100 %	375.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-89	100 %	386.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-90	100 %	396.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-91	100 %	407.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-92	100 %	417.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-93	100 %	428.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-94	100 %	438.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-95	100 %	449.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-96	100 %	459.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-97	100 %	470.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-98	100 %	480.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-99	100 %	491.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-100	100 %	501.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-101	100 %	512.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-102	100 %	522.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-103	100 %	533.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-104	100 %	543.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-105	100 %	554.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-106	100 %	564.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-107	100 %	575.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-108	100 %	585.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8S 16D440_W201A	100 %	2.00	2.00	4.31	0.0	-0.0	0.0	2.00	2.00	0.00	0.0
A-2		Radiant 8S 16D440_W201A	100 %	8.50	2.00	4.31	0.0	-0.0	0.0	8.50	2.00	0.00	0.0
A-3		Radiant 8S 16D440_W201A	100 %	15.00	2.00	4.31	0.0	-0.0	0.0	15.00	2.00	0.00	0.0
A-4		Radiant 8S 16D440_W201A	100 %	21.50	2.00	4.31	0.0	-0.0	0.0	21.50	2.00	0.00	0.0
A-5		Radiant 8S 16D440_W201A	100 %	2.00	14.09	4.31	0.0	-0.0	0.0	2.00	14.09	0.00	0.0
A-6		Radiant 8S 16D440_W201A	100 %	8.50	14.09	4.31	0.0	-0.0	0.0	8.50	14.09	0.00	0.0
A-7		Radiant 8S 16D440_W201A	100 %	15.00	14.09	4.31	0.0	-0.0	0.0	15.00	14.09	0.00	0.0
A-8		Radiant 8S 16D440_W201A	100 %	21.50	14.09	4.31	0.0	-0.0	0.0	21.50	14.09	0.00	0.0
A-9		Radiant 8S 16D440_W201A	100 %	2.00	13.84	4.31	0.0	-0.0	180.0	2.00	13.84	0.00	0.0
A-10		Radiant 8S 16D440_W201A	100 %	8.50	13.84	4.31	0.0	-0.0	180.0	8.50	13.84	0.00	0.0
A-11		Radiant 8S 16D440_W201A	100 %	15.00	13.84	4.31	0.0	-0.0	180.0	15.00	13.84	0.00	0.0
A-12		Radiant 8S 16D440_W201A	100 %	21.50	13.84	4.31	0.0	-0.0	180.0	21.50	13.84	0.00	0.0
A-13		Radiant 8S 16D440_W201A	100 %	2.00	25.59	4.31	0.0	-0.0	180.0	2.00	25.59	0.00	0.0
A-14		Radiant 8S 16D440_W201A	100 %	8.50	25.59	4.31	0.0	-0.0	180.0	8.50	25.59	0.00	0.0
A-15		Radiant 8S 16D440_W201A	100 %	15.00	25.59	4.31	0.0	-0.0	180.0	15.00	25.59	0.00	0.0
A-16		Radiant 8S 16D440_W201A	100 %	21.50	25.59	4.31	0.0	-0.0	180.0	21.50	25.59	0.00	0.0
B-1		Radiant 8S 16D700_W244S	100 %	29.00	22.81	5.00	0.0	-0.0	0.0	29.00	22.81	0.00	0.0
B-2		Radiant 8S 16D700_W244S	100 %	39.50	22.81	5.00	0.0	-0.0	0.0	39.50	22.81	0.00	0.0
B-3		Radiant 8S 16D700_W244S	100 %	50.00	22.81	5.00	0.0	-0.0	0.0	50.00	22.81	0.00	0.0
B-4		Radiant 8S 16D700_W244S	100 %	60.50	22.81	5.00	0.0	-0.0	0.0	60.50	22.81	0.00	0.0
B-5		Radiant 8S 16D700_W244S	100 %	71.00	22.81	5.00	0.0	-0.0	0.0	71.00	22.81	0.00	0.0
B-6		Radiant 8S 16D700_W244S	100 %	81.50	22.81	5.00	0.0	-0.0	0.0	81.50	22.81	0.00	0.0
B-7		Radiant 8S 16D700_W244S	100 %	92.00	22.81	5.00	0.0	-0.0	0.0	92.00	22.81	0.00	0.0
B-8		Radiant 8S 16D700_W244S	100 %	102.50	22.81	5.00	0.0	-0.0	0.0	102.50	22.81	0.00	0.0
B-9		Radiant 8S 16D700_W244S	100 %	113.00	22.81	5.00	0.0	-0.0	0.0	113.00	22.81	0.00	0.0
B-10		Radiant 8S 16D700_W244S	100 %	123.50	22.81	5.00	0.0	-0.0	0.0	123.50	22.81	0.00	0.0
B-11		Radiant 8S 16D700_W244S	100 %	134.00	22.81	5.00	0.0	-0.0	0.0	134.00	22.81	0.00	0.0
B-12		Radiant 8S 16D700_W244S	100 %	144.50	22.81	5.00	0.0	-0.0	0.0	144.50	22.81	0.00	0.0
B-13		Radiant 8S 16D700_W244S	100 %	155.00	22.81	5.00	0.0	-0.0	0.0	155.00	22.81	0.00	0.0
B-14		Radiant 8S 16D700_W244S	100 %	165.50	22.81	5.00	0.0	-0.0	0.0	165.50	22.81	0.00	0.0
B-15		Radiant 8S 16D700_W244S	100 %	176.00	22.81	5.00	0.0	-0.0	0.0	176.00	22.81	0.00	0.0
B-16		Radiant 8S 16D700_W244S	100 %	186.50	22.81	5.00	0.0	-0.0	0.0	186.50	22.81	0.00	0.0
B-17		Radiant 8S 16D700_W244S	100 %	197.00	22.81	5.00	0.0	-0.0	0.0	197.00	22.81	0.00	0.0
B-18		Radiant 8S 16D700_W244S	100 %	207.50	22.81	5.00	0.0	-0.0	0.0	207.50	22.81	0.00	0.0
B-19		Radiant 8S 16D700_W244S	100 %	218.00	22.81	5.00	0.0	-0.0	0.0	218.00	22.81	0.00	0.0
B-20		Radiant 8S 16D700_W244S	100 %	228.50	22.81	5.00	0.0	-0.0	0.0	228.50	22.81	0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
B-21		Radiant 8S 16D700_W244S	100 %	239.00	22.81	5.00	0.0	-0.0	0.0	239.00	22.81	0.00	0.0
B-22		Radiant 8S 16D700_W244S	100 %	249.50	22.81	5.00	0.0	-0.0	0.0	249.50	22.81	0.00	0.0
B-23		Radiant 8S 16D700_W244S	100 %	260.00	22.81	5.00	0.0	-0.0	0.0	260.00	22.81	0.00	0.0
B-24		Radiant 8S 16D700_W244S	100 %	270.50	22.81	5.00	0.0	-0.0	0.0	270.50	22.81	0.00	0.0
B-25		Radiant 8S 16D700_W244S	100 %	281.00	22.81	5.00	0.0	-0.0	0.0	281.00	22.81	0.00	0.0
B-26		Radiant 8S 16D700_W244S	100 %	291.50	22.81	5.00	0.0	-0.0	0.0	291.50	22.81	0.00	0.0
B-27		Radiant 8S 16D700_W244S	100 %	302.00	22.81	5.00	0.0	-0.0	0.0	302.00	22.81	0.00	0.0
B-28		Radiant 8S 16D700_W244S	100 %	312.50	22.81	5.00	0.0	-0.0	0.0	312.50	22.81	0.00	0.0
B-29		Radiant 8S 16D700_W244S	100 %	323.00	22.81	5.00	0.0	-0.0	0.0	323.00	22.81	0.00	0.0
B-30		Radiant 8S 16D700_W244S	100 %	333.50	22.81	5.00	0.0	-0.0	0.0	333.50	22.81	0.00	0.0
B-31		Radiant 8S 16D700_W244S	100 %	344.00	22.81	5.00	0.0	-0.0	0.0	344.00	22.81	0.00	0.0
B-32		Radiant 8S 16D700_W244S	100 %	354.50	22.81	5.00	0.0	-0.0	0.0	354.50	22.81	0.00	0.0
B-33		Radiant 8S 16D700_W244S	100 %	365.00	22.81	5.00	0.0	-0.0	0.0	365.00	22.81	0.00	0.0
B-34		Radiant 8S 16D700_W244S	100 %	375.50	22.81	5.00	0.0	-0.0	0.0	375.50	22.81	0.00	0.0
B-35		Radiant 8S 16D700_W244S	100 %	386.00	22.81	5.00	0.0	-0.0	0.0	386.00	22.81	0.00	0.0
B-36		Radiant 8S 16D700_W244S	100 %	396.50	22.81	5.00	0.0	-0.0	0.0	396.50	22.81	0.00	0.0
B-37		Radiant 8S 16D700_W244S	100 %	407.00	22.81	5.00	0.0	-0.0	0.0	407.00	22.81	0.00	0.0
B-38		Radiant 8S 16D700_W244S	100 %	417.50	22.81	5.00	0.0	-0.0	0.0	417.50	22.81	0.00	0.0
B-39		Radiant 8S 16D700_W244S	100 %	428.00	22.81	5.00	0.0	-0.0	0.0	428.00	22.81	0.00	0.0
B-40		Radiant 8S 16D700_W244S	100 %	438.50	22.81	5.00	0.0	-0.0	0.0	438.50	22.81	0.00	0.0
B-41		Radiant 8S 16D700_W244S	100 %	449.00	22.81	5.00	0.0	-0.0	0.0	449.00	22.81	0.00	0.0
B-42		Radiant 8S 16D700_W244S	100 %	459.50	22.81	5.00	0.0	-0.0	0.0	459.50	22.81	0.00	0.0
B-43		Radiant 8S 16D700_W244S	100 %	470.00	22.81	5.00	0.0	-0.0	0.0	470.00	22.81	0.00	0.0
B-44		Radiant 8S 16D700_W244S	100 %	480.50	22.81	5.00	0.0	-0.0	0.0	480.50	22.81	0.00	0.0
B-45		Radiant 8S 16D700_W244S	100 %	491.00	22.81	5.00	0.0	-0.0	0.0	491.00	22.81	0.00	0.0
B-46		Radiant 8S 16D700_W244S	100 %	501.50	22.81	5.00	0.0	-0.0	0.0	501.50	22.81	0.00	0.0
B-47		Radiant 8S 16D700_W244S	100 %	512.00	22.81	5.00	0.0	-0.0	0.0	512.00	22.81	0.00	0.0
B-48		Radiant 8S 16D700_W244S	100 %	522.50	22.81	5.00	0.0	-0.0	0.0	522.50	22.81	0.00	0.0
B-49		Radiant 8S 16D700_W244S	100 %	533.00	22.81	5.00	0.0	-0.0	0.0	533.00	22.81	0.00	0.0
B-50		Radiant 8S 16D700_W244S	100 %	543.50	22.81	5.00	0.0	-0.0	0.0	543.50	22.81	0.00	0.0
B-51		Radiant 8S 16D700_W244S	100 %	554.00	22.81	5.00	0.0	-0.0	0.0	554.00	22.81	0.00	0.0
B-52		Radiant 8S 16D700_W244S	100 %	564.50	22.81	5.00	0.0	-0.0	0.0	564.50	22.81	0.00	0.0
B-53		Radiant 8S 16D700_W244S	100 %	575.00	22.81	5.00	0.0	-0.0	0.0	575.00	22.81	0.00	0.0
B-54		Radiant 8S 16D700_W244S	100 %	585.50	22.81	5.00	0.0	-0.0	0.0	585.50	22.81	0.00	0.0
B-55		Radiant 8S 16D700_W244S	100 %	29.00	3.50	5.90	0.0	-0.0	0.0	29.00	3.50	-0.00	0.0
B-56		Radiant 8S 16D700_W244S	100 %	39.50	3.50	5.90	0.0	-0.0	0.0	39.50	3.50	-0.00	0.0
B-57		Radiant 8S 16D700_W244S	100 %	50.00	3.50	5.90	0.0	-0.0	0.0	50.00	3.50	-0.00	0.0
B-58		Radiant 8S 16D700_W244S	100 %	60.50	3.50	5.90	0.0	-0.0	0.0	60.50	3.50	-0.00	0.0
B-59		Radiant 8S 16D700_W244S	100 %	71.00	3.50	5.90	0.0	-0.0	0.0	71.00	3.50	-0.00	0.0
B-60		Radiant 8S 16D700_W244S	100 %	81.50	3.50	5.90	0.0	-0.0	0.0	81.50	3.50	-0.00	0.0
B-61		Radiant 8S 16D700_W244S	100 %	92.00	3.50	5.90	0.0	-0.0	0.0	92.00	3.50	-0.00	0.0
B-62		Radiant 8S 16D700_W244S	100 %	102.50	3.50	5.90	0.0	-0.0	0.0	102.50	3.50	-0.00	0.0
B-63		Radiant 8S 16D700_W244S	100 %	113.00	3.50	5.90	0.0	-0.0	0.0	113.00	3.50	-0.00	0.0
B-64		Radiant 8S 16D700_W244S	100 %	123.50	3.50	5.90	0.0	-0.0	0.0	123.50	3.50	-0.00	0.0
B-65		Radiant 8S 16D700_W244S	100 %	134.00	3.50	5.90	0.0	-0.0	0.0	134.00	3.50	-0.00	0.0
B-66		Radiant 8S 16D700_W244S	100 %	144.50	3.50	5.90	0.0	-0.0	0.0	144.50	3.50	-0.00	0.0
B-67		Radiant 8S 16D700_W244S	100 %	155.00	3.50	5.90	0.0	-0.0	0.0	155.00	3.50	-0.00	0.0
B-68		Radiant 8S 16D700_W244S	100 %	165.50	3.50	5.90	0.0	-0.0	0.0	165.50	3.50	-0.00	0.0
B-69		Radiant 8S 16D700_W244S	100 %	176.00	3.50	5.90	0.0	-0.0	0.0	176.00	3.50	-0.00	0.0
B-70		Radiant 8S 16D700_W244S	100 %	186.50	3.50	5.90	0.0	-0.0	0.0	186.50	3.50	-0.00	0.0
B-71		Radiant 8S 16D700_W244S	100 %	197.00	3.50	5.90	0.0	-0.0	0.0	197.00	3.50	-0.00	0.0
B-72		Radiant 8S 16D700_W244S	100 %	207.50	3.50	5.90	0.0	-0.0	0.0	207.50	3.50	-0.00	0.0
B-73		Radiant 8S 16D700_W244S	100 %	218.00	3.50	5.90	0.0	-0.0	0.0	218.00	3.50	-0.00	0.0
B-74		Radiant 8S 16D700_W244S	100 %	228.50	3.50	5.90	0.0	-0.0	0.0	228.50	3.50	-0.00	0.0
B-75		Radiant 8S 16D700_W244S	100 %	239.00	3.50	5.90	0.0	-0.0	0.0	239.00	3.50	-0.00	0.0
B-76		Radiant 8S 16D700_W244S	100 %	249.50	3.50	5.90	0.0	-0.0	0.0	249.50	3.50	-0.00	0.0
B-77		Radiant 8S 16D700_W244S	100 %	260.00	3.50	5.90	0.0	-0.0	0.0	260.00	3.50	-0.00	0.0
B-78		Radiant 8S 16D700_W244S	100 %	270.50	3.50	5.90	0.0	-0.0	0.0	270.50	3.50	-0.00	0.0
B-79		Radiant 8S 16D700_W244S	100 %	281.00	3.50	5.90	0.0	-0.0	0.0	281.00	3.50	-0.00	0.0
B-80		Radiant 8S 16D700_W244S	100 %	291.50	3.50	5.90	0.0	-0.0	0.0	291.50	3.50	-0.00	0.0
B-81		Radiant 8S 16D700_W244S	100 %	302.00	3.50	5.90	0.0	-0.0	0.0	302.00	3.50	-0.00	0.0
B-82		Radiant 8S 16D700_W244S	100 %	312.50	3.50	5.90	0.0	-0.0	0.0	312.50	3.50	-0.00	0.0
B-83		Radiant 8S 16D700_W244S	100 %	323.00	3.50	5.90	0.0	-0.0	0.0	323.00	3.50	-0.00	0.0
B-84		Radiant 8S 16D700_W244S	100 %	333.50	3.50	5.90	0.0	-0.0	0.0	333.50	3.50	-0.00	0.0
B-85		Radiant 8S 16D700_W244S	100 %	344.00	3.50	5.90	0.0	-0.0	0.0	344.00	3.50	-0.00	0.0
B-86		Radiant 8S 16D700_W244S	100 %	354.50	3.50	5.90	0.0	-0.0	0.0	354.50	3.50	-0.00	0.0
B-87		Radiant 8S 16D700_W244S	100 %	365.00	3.50	5.90	0.0	-0.0	0.0	365.00	3.50	-0.00	0.0
B-88		Radiant 8S 16D700_W244S	100 %	375.50	3.50	5.90	0.0	-0.0	0.0	375.50	3.50	-0.00	0.0
B-89		Radiant 8S 16D700_W244S	100 %	386.00	3.50	5.90	0.0	-0.0	0.0	386.00	3.50	-0.00	0.0
B-90		Radiant 8S 16D700_W244S	100 %	396.50	3.50	5.90	0.0	-0.0	0.0	396.50	3.50	-0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
B-91		Radiant 8S 16D700_W244S	100 %	407.00	3.50	5.90	0.0	-0.0	0.0	407.00	3.50	-0.00	0.0
B-92		Radiant 8S 16D700_W244S	100 %	417.50	3.50	5.90	0.0	-0.0	0.0	417.50	3.50	-0.00	0.0
B-93		Radiant 8S 16D700_W244S	100 %	428.00	3.50	5.90	0.0	-0.0	0.0	428.00	3.50	-0.00	0.0
B-94		Radiant 8S 16D700_W244S	100 %	438.50	3.50	5.90	0.0	-0.0	0.0	438.50	3.50	-0.00	0.0
B-95		Radiant 8S 16D700_W244S	100 %	449.00	3.50	5.90	0.0	-0.0	0.0	449.00	3.50	-0.00	0.0
B-96		Radiant 8S 16D700_W244S	100 %	459.50	3.50	5.90	0.0	-0.0	0.0	459.50	3.50	-0.00	0.0
B-97		Radiant 8S 16D700_W244S	100 %	470.00	3.50	5.90	0.0	-0.0	0.0	470.00	3.50	-0.00	0.0
B-98		Radiant 8S 16D700_W244S	100 %	480.50	3.50	5.90	0.0	-0.0	0.0	480.50	3.50	-0.00	0.0
B-99		Radiant 8S 16D700_W244S	100 %	491.00	3.50	5.90	0.0	-0.0	0.0	491.00	3.50	-0.00	0.0
B-100		Radiant 8S 16D700_W244S	100 %	501.50	3.50	5.90	0.0	-0.0	0.0	501.50	3.50	-0.00	0.0
B-101		Radiant 8S 16D700_W244S	100 %	512.00	3.50	5.90	0.0	-0.0	0.0	512.00	3.50	-0.00	0.0
B-102		Radiant 8S 16D700_W244S	100 %	522.50	3.50	5.90	0.0	-0.0	0.0	522.50	3.50	-0.00	0.0
B-103		Radiant 8S 16D700_W244S	100 %	533.00	3.50	5.90	0.0	-0.0	0.0	533.00	3.50	-0.00	0.0
B-104		Radiant 8S 16D700_W244S	100 %	543.50	3.50	5.90	0.0	-0.0	0.0	543.50	3.50	-0.00	0.0
B-105		Radiant 8S 16D700_W244S	100 %	554.00	3.50	5.90	0.0	-0.0	0.0	554.00	3.50	-0.00	0.0
B-106		Radiant 8S 16D700_W244S	100 %	564.50	3.50	5.90	0.0	-0.0	0.0	564.50	3.50	-0.00	0.0
B-107		Radiant 8S 16D700_W244S	100 %	575.00	3.50	5.90	0.0	-0.0	0.0	575.00	3.50	-0.00	0.0
B-108		Radiant 8S 16D700_W244S	100 %	585.50	3.50	5.90	0.0	-0.0	0.0	585.50	3.50	-0.00	0.0
C-1		Radiant 8S 16D600_W279A	100 %	29.00	15.81	5.45	0.0	-0.0	0.0	29.00	15.81	0.00	0.0
C-2		Radiant 8S 16D600_W279A	100 %	39.50	15.81	5.45	0.0	-0.0	0.0	39.50	15.81	0.00	0.0
C-3		Radiant 8S 16D600_W279A	100 %	50.00	15.81	5.45	0.0	-0.0	0.0	50.00	15.81	0.00	0.0
C-4		Radiant 8S 16D600_W279A	100 %	60.50	15.81	5.45	0.0	-0.0	0.0	60.50	15.81	0.00	0.0
C-5		Radiant 8S 16D600_W279A	100 %	71.00	15.81	5.45	0.0	-0.0	0.0	71.00	15.81	0.00	0.0
C-6		Radiant 8S 16D600_W279A	100 %	81.50	15.81	5.45	0.0	-0.0	0.0	81.50	15.81	0.00	0.0
C-7		Radiant 8S 16D600_W279A	100 %	92.00	15.81	5.45	0.0	-0.0	0.0	92.00	15.81	0.00	0.0
C-8		Radiant 8S 16D600_W279A	100 %	102.50	15.81	5.45	0.0	-0.0	0.0	102.50	15.81	0.00	0.0
C-9		Radiant 8S 16D600_W279A	100 %	113.00	15.81	5.45	0.0	-0.0	0.0	113.00	15.81	0.00	0.0
C-10		Radiant 8S 16D600_W279A	100 %	123.50	15.81	5.45	0.0	-0.0	0.0	123.50	15.81	0.00	0.0
C-11		Radiant 8S 16D600_W279A	100 %	134.00	15.81	5.45	0.0	-0.0	0.0	134.00	15.81	0.00	0.0
C-12		Radiant 8S 16D600_W279A	100 %	144.50	15.81	5.45	0.0	-0.0	0.0	144.50	15.81	0.00	0.0
C-13		Radiant 8S 16D600_W279A	100 %	155.00	15.81	5.45	0.0	-0.0	0.0	155.00	15.81	0.00	0.0
C-14		Radiant 8S 16D600_W279A	100 %	165.50	15.81	5.45	0.0	-0.0	0.0	165.50	15.81	0.00	0.0
C-15		Radiant 8S 16D600_W279A	100 %	176.00	15.81	5.45	0.0	-0.0	0.0	176.00	15.81	0.00	0.0
C-16		Radiant 8S 16D600_W279A	100 %	186.50	15.81	5.45	0.0	-0.0	0.0	186.50	15.81	0.00	0.0
C-17		Radiant 8S 16D600_W279A	100 %	197.00	15.81	5.45	0.0	-0.0	0.0	197.00	15.81	0.00	0.0
C-18		Radiant 8S 16D600_W279A	100 %	207.50	15.81	5.45	0.0	-0.0	0.0	207.50	15.81	0.00	0.0
C-19		Radiant 8S 16D600_W279A	100 %	218.00	15.81	5.45	0.0	-0.0	0.0	218.00	15.81	0.00	0.0
C-20		Radiant 8S 16D600_W279A	100 %	228.50	15.81	5.45	0.0	-0.0	0.0	228.50	15.81	0.00	0.0
C-21		Radiant 8S 16D600_W279A	100 %	239.00	15.81	5.45	0.0	-0.0	0.0	239.00	15.81	0.00	0.0
C-22		Radiant 8S 16D600_W279A	100 %	249.50	15.81	5.45	0.0	-0.0	0.0	249.50	15.81	0.00	0.0
C-23		Radiant 8S 16D600_W279A	100 %	260.00	15.81	5.45	0.0	-0.0	0.0	260.00	15.81	0.00	0.0
C-24		Radiant 8S 16D600_W279A	100 %	270.50	15.81	5.45	0.0	-0.0	0.0	270.50	15.81	0.00	0.0
C-25		Radiant 8S 16D600_W279A	100 %	281.00	15.81	5.45	0.0	-0.0	0.0	281.00	15.81	0.00	0.0
C-26		Radiant 8S 16D600_W279A	100 %	291.50	15.81	5.45	0.0	-0.0	0.0	291.50	15.81	0.00	0.0
C-27		Radiant 8S 16D600_W279A	100 %	302.00	15.81	5.45	0.0	-0.0	0.0	302.00	15.81	0.00	0.0
C-28		Radiant 8S 16D600_W279A	100 %	312.50	15.81	5.45	0.0	-0.0	0.0	312.50	15.81	0.00	0.0
C-29		Radiant 8S 16D600_W279A	100 %	323.00	15.81	5.45	0.0	-0.0	0.0	323.00	15.81	0.00	0.0
C-30		Radiant 8S 16D600_W279A	100 %	333.50	15.81	5.45	0.0	-0.0	0.0	333.50	15.81	0.00	0.0
C-31		Radiant 8S 16D600_W279A	100 %	344.00	15.81	5.45	0.0	-0.0	0.0	344.00	15.81	0.00	0.0
C-32		Radiant 8S 16D600_W279A	100 %	354.50	15.81	5.45	0.0	-0.0	0.0	354.50	15.81	0.00	0.0
C-33		Radiant 8S 16D600_W279A	100 %	365.00	15.81	5.45	0.0	-0.0	0.0	365.00	15.81	0.00	0.0
C-34		Radiant 8S 16D600_W279A	100 %	375.50	15.81	5.45	0.0	-0.0	0.0	375.50	15.81	0.00	0.0
C-35		Radiant 8S 16D600_W279A	100 %	386.00	15.81	5.45	0.0	-0.0	0.0	386.00	15.81	0.00	0.0
C-36		Radiant 8S 16D600_W279A	100 %	396.50	15.81	5.45	0.0	-0.0	0.0	396.50	15.81	0.00	0.0
C-37		Radiant 8S 16D600_W279A	100 %	407.00	15.81	5.45	0.0	-0.0	0.0	407.00	15.81	0.00	0.0
C-38		Radiant 8S 16D600_W279A	100 %	417.50	15.81	5.45	0.0	-0.0	0.0	417.50	15.81	0.00	0.0
C-39		Radiant 8S 16D600_W279A	100 %	428.00	15.81	5.45	0.0	-0.0	0.0	428.00	15.81	0.00	0.0
C-40		Radiant 8S 16D600_W279A	100 %	438.50	15.81	5.45	0.0	-0.0	0.0	438.50	15.81	0.00	0.0
C-41		Radiant 8S 16D600_W279A	100 %	449.00	15.81	5.45	0.0	-0.0	0.0	449.00	15.81	0.00	0.0
C-42		Radiant 8S 16D600_W279A	100 %	459.50	15.81	5.45	0.0	-0.0	0.0	459.50	15.81	0.00	0.0
C-43		Radiant 8S 16D600_W279A	100 %	470.00	15.81	5.45	0.0	-0.0	0.0	470.00	15.81	0.00	0.0
C-44		Radiant 8S 16D600_W279A	100 %	480.50	15.81	5.45	0.0	-0.0	0.0	480.50	15.81	0.00	0.0
C-45		Radiant 8S 16D600_W279A	100 %	491.00	15.81	5.45	0.0	-0.0	0.0	491.00	15.81	0.00	0.0
C-46		Radiant 8S 16D600_W279A	100 %	501.50	15.81	5.45	0.0	-0.0	0.0	501.50	15.81	0.00	0.0
C-47		Radiant 8S 16D600_W279A	100 %	512.00	15.81	5.45	0.0	-0.0	0.0	512.00	15.81	0.00	0.0
C-48		Radiant 8S 16D600_W279A	100 %	522.50	15.81	5.45	0.0	-0.0	0.0	522.50	15.81	0.00	0.0
C-49		Radiant 8S 16D600_W279A	100 %	533.00	15.81	5.45	0.0	-0.0	0.0	533.00	15.81	0.00	0.0
C-50		Radiant 8S 16D600_W279A	100 %	543.50	15.81	5.45	0.0	-0.0	0.0	543.50	15.81	0.00	0.0
C-51		Radiant 8S 16D600_W279A	100 %	554.00	15.81	5.45	0.0	-0.0	0.0	554.00	15.81	0.00	0.0
C-52		Radiant 8S 16D600_W279A	100 %	564.50	15.81	5.45	0.0	-0.0	0.0	564.50	15.81	0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
C-53		Radiant 8S 16D600_W279A	100 %	575.00	15.81	5.45	0.0	-0.0	0.0	575.00	15.81	0.00	0.0
C-54		Radiant 8S 16D600_W279A	100 %	585.50	15.81	5.45	0.0	-0.0	0.0	585.50	15.81	0.00	0.0
C-55		Radiant 8S 16D600_W279A	100 %	29.00	10.50	5.00	0.0	-0.0	180.0	29.00	10.50	0.00	0.0
C-56		Radiant 8S 16D600_W279A	100 %	39.50	10.50	5.00	0.0	-0.0	180.0	39.50	10.50	0.00	0.0
C-57		Radiant 8S 16D600_W279A	100 %	50.00	10.50	5.00	0.0	-0.0	180.0	50.00	10.50	0.00	0.0
C-58		Radiant 8S 16D600_W279A	100 %	60.50	10.50	5.00	0.0	-0.0	180.0	60.50	10.50	0.00	0.0
C-59		Radiant 8S 16D600_W279A	100 %	71.00	10.50	5.00	0.0	-0.0	180.0	71.00	10.50	0.00	0.0
C-60		Radiant 8S 16D600_W279A	100 %	81.50	10.50	5.00	0.0	-0.0	180.0	81.50	10.50	0.00	0.0
C-61		Radiant 8S 16D600_W279A	100 %	92.00	10.50	5.00	0.0	-0.0	180.0	92.00	10.50	0.00	0.0
C-62		Radiant 8S 16D600_W279A	100 %	102.50	10.50	5.00	0.0	-0.0	180.0	102.50	10.50	0.00	0.0
C-63		Radiant 8S 16D600_W279A	100 %	113.00	10.50	5.00	0.0	-0.0	180.0	113.00	10.50	0.00	0.0
C-64		Radiant 8S 16D600_W279A	100 %	123.50	10.50	5.00	0.0	-0.0	180.0	123.50	10.50	0.00	0.0
C-65		Radiant 8S 16D600_W279A	100 %	134.00	10.50	5.00	0.0	-0.0	180.0	134.00	10.50	0.00	0.0
C-66		Radiant 8S 16D600_W279A	100 %	144.50	10.50	5.00	0.0	-0.0	180.0	144.50	10.50	0.00	0.0
C-67		Radiant 8S 16D600_W279A	100 %	155.00	10.50	5.00	0.0	-0.0	180.0	155.00	10.50	0.00	0.0
C-68		Radiant 8S 16D600_W279A	100 %	165.50	10.50	5.00	0.0	-0.0	180.0	165.50	10.50	0.00	0.0
C-69		Radiant 8S 16D600_W279A	100 %	176.00	10.50	5.00	0.0	-0.0	180.0	176.00	10.50	0.00	0.0
C-70		Radiant 8S 16D600_W279A	100 %	186.50	10.50	5.00	0.0	-0.0	180.0	186.50	10.50	0.00	0.0
C-71		Radiant 8S 16D600_W279A	100 %	197.00	10.50	5.00	0.0	-0.0	180.0	197.00	10.50	0.00	0.0
C-72		Radiant 8S 16D600_W279A	100 %	207.50	10.50	5.00	0.0	-0.0	180.0	207.50	10.50	0.00	0.0
C-73		Radiant 8S 16D600_W279A	100 %	218.00	10.50	5.00	0.0	-0.0	180.0	218.00	10.50	0.00	0.0
C-74		Radiant 8S 16D600_W279A	100 %	228.50	10.50	5.00	0.0	-0.0	180.0	228.50	10.50	0.00	0.0
C-75		Radiant 8S 16D600_W279A	100 %	239.00	10.50	5.00	0.0	-0.0	180.0	239.00	10.50	0.00	0.0
C-76		Radiant 8S 16D600_W279A	100 %	249.50	10.50	5.00	0.0	-0.0	180.0	249.50	10.50	0.00	0.0
C-77		Radiant 8S 16D600_W279A	100 %	260.00	10.50	5.00	0.0	-0.0	180.0	260.00	10.50	0.00	0.0
C-78		Radiant 8S 16D600_W279A	100 %	270.50	10.50	5.00	0.0	-0.0	180.0	270.50	10.50	0.00	0.0
C-79		Radiant 8S 16D600_W279A	100 %	281.00	10.50	5.00	0.0	-0.0	180.0	281.00	10.50	0.00	0.0
C-80		Radiant 8S 16D600_W279A	100 %	291.50	10.50	5.00	0.0	-0.0	180.0	291.50	10.50	0.00	0.0
C-81		Radiant 8S 16D600_W279A	100 %	302.00	10.50	5.00	0.0	-0.0	180.0	302.00	10.50	0.00	0.0
C-82		Radiant 8S 16D600_W279A	100 %	312.50	10.50	5.00	0.0	-0.0	180.0	312.50	10.50	0.00	0.0
C-83		Radiant 8S 16D600_W279A	100 %	323.00	10.50	5.00	0.0	-0.0	180.0	323.00	10.50	0.00	0.0
C-84		Radiant 8S 16D600_W279A	100 %	333.50	10.50	5.00	0.0	-0.0	180.0	333.50	10.50	0.00	0.0
C-85		Radiant 8S 16D600_W279A	100 %	344.00	10.50	5.00	0.0	-0.0	180.0	344.00	10.50	0.00	0.0
C-86		Radiant 8S 16D600_W279A	100 %	354.50	10.50	5.00	0.0	-0.0	180.0	354.50	10.50	0.00	0.0
C-87		Radiant 8S 16D600_W279A	100 %	365.00	10.50	5.00	0.0	-0.0	180.0	365.00	10.50	0.00	0.0
C-88		Radiant 8S 16D600_W279A	100 %	375.50	10.50	5.00	0.0	-0.0	180.0	375.50	10.50	0.00	0.0
C-89		Radiant 8S 16D600_W279A	100 %	386.00	10.50	5.00	0.0	-0.0	180.0	386.00	10.50	0.00	0.0
C-90		Radiant 8S 16D600_W279A	100 %	396.50	10.50	5.00	0.0	-0.0	180.0	396.50	10.50	0.00	0.0
C-91		Radiant 8S 16D600_W279A	100 %	407.00	10.50	5.00	0.0	-0.0	180.0	407.00	10.50	0.00	0.0
C-92		Radiant 8S 16D600_W279A	100 %	417.50	10.50	5.00	0.0	-0.0	180.0	417.50	10.50	0.00	0.0
C-93		Radiant 8S 16D600_W279A	100 %	428.00	10.50	5.00	0.0	-0.0	180.0	428.00	10.50	0.00	0.0
C-94		Radiant 8S 16D600_W279A	100 %	438.50	10.50	5.00	0.0	-0.0	180.0	438.50	10.50	0.00	0.0
C-95		Radiant 8S 16D600_W279A	100 %	449.00	10.50	5.00	0.0	-0.0	180.0	449.00	10.50	0.00	0.0
C-96		Radiant 8S 16D600_W279A	100 %	459.50	10.50	5.00	0.0	-0.0	180.0	459.50	10.50	0.00	0.0
C-97		Radiant 8S 16D600_W279A	100 %	470.00	10.50	5.00	0.0	-0.0	180.0	470.00	10.50	0.00	0.0
C-98		Radiant 8S 16D600_W279A	100 %	480.50	10.50	5.00	0.0	-0.0	180.0	480.50	10.50	0.00	0.0
C-99		Radiant 8S 16D600_W279A	100 %	491.00	10.50	5.00	0.0	-0.0	180.0	491.00	10.50	0.00	0.0
C-100		Radiant 8S 16D600_W279A	100 %	501.50	10.50	5.00	0.0	-0.0	180.0	501.50	10.50	0.00	0.0
C-101		Radiant 8S 16D600_W279A	100 %	512.00	10.50	5.00	0.0	-0.0	180.0	512.00	10.50	0.00	0.0
C-102		Radiant 8S 16D600_W279A	100 %	522.50	10.50	5.00	0.0	-0.0	180.0	522.50	10.50	0.00	0.0
C-103		Radiant 8S 16D600_W279A	100 %	533.00	10.50	5.00	0.0	-0.0	180.0	533.00	10.50	0.00	0.0
C-104		Radiant 8S 16D600_W279A	100 %	543.50	10.50	5.00	0.0	-0.0	180.0	543.50	10.50	0.00	0.0
C-105		Radiant 8S 16D600_W279A	100 %	554.00	10.50	5.00	0.0	-0.0	180.0	554.00	10.50	0.00	0.0
C-106		Radiant 8S 16D600_W279A	100 %	564.50	10.50	5.00	0.0	-0.0	180.0	564.50	10.50	0.00	0.0
C-107		Radiant 8S 16D600_W279A	100 %	575.00	10.50	5.00	0.0	-0.0	180.0	575.00	10.50	0.00	0.0
C-108		Radiant 8S 16D600_W279A	100 %	585.50	10.50	5.00	0.0	-0.0	180.0	585.50	10.50	0.00	0.0

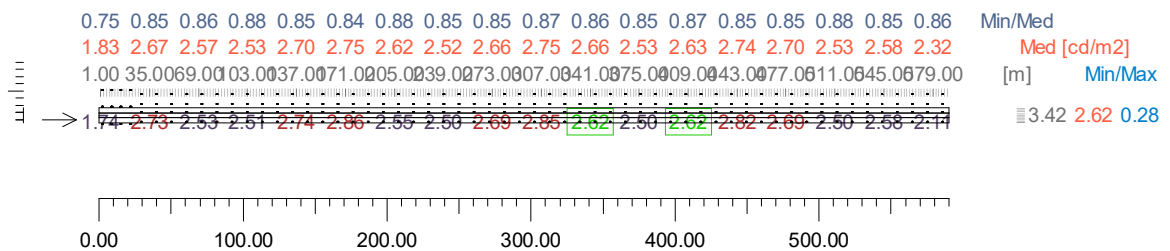
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 2 - Tangenziale - Oss. 1 [x=-60.00 y=4.59] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.62 cd/m2	0.86 cd/m2	3.81 cd/m2	0.33	0.22	0.69

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

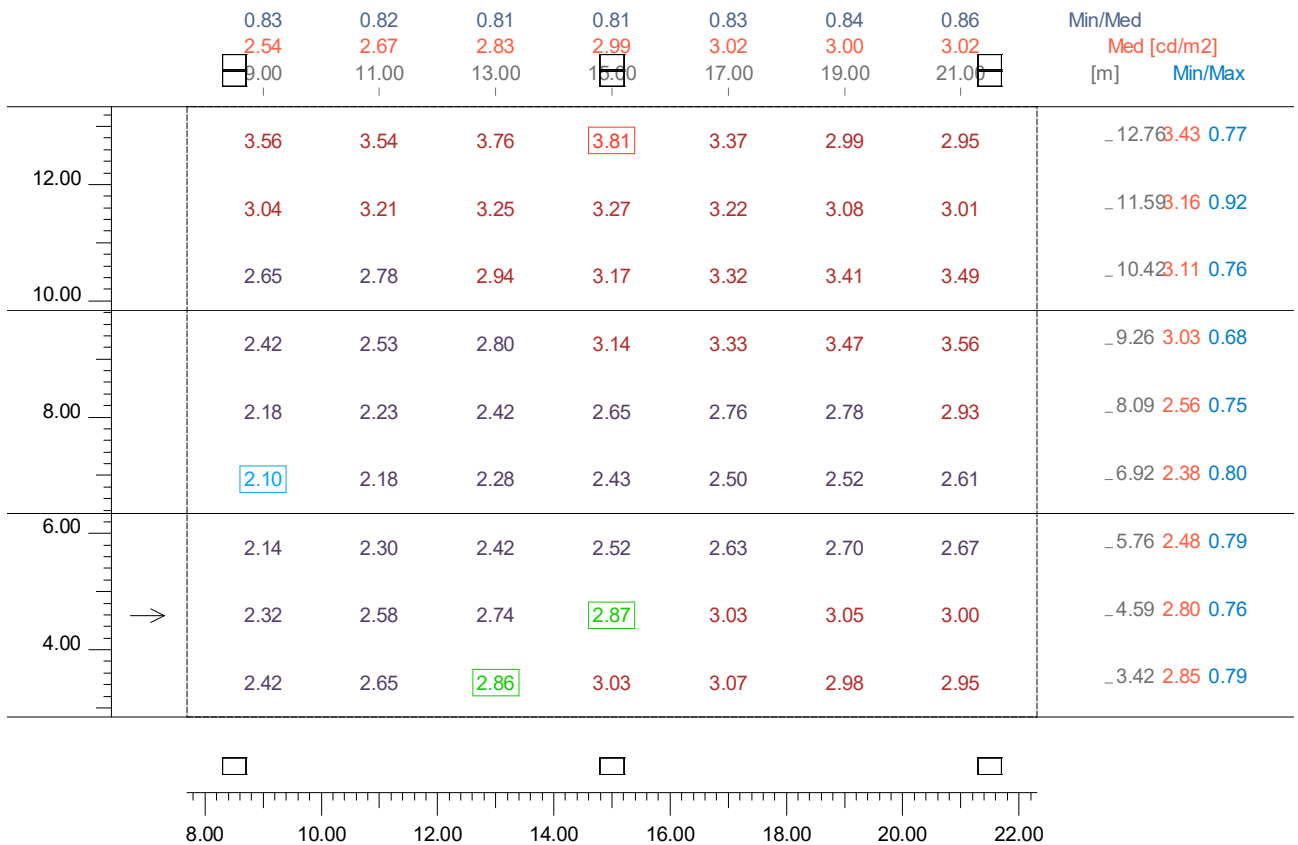


4.2 Valori delle Luminanze su: 2 - Tangenziale [Lp,c (Tangenziale, Sezione 1) - [1]] - Oss. 1 [x=-60.00 y=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.87 cd/m2	2.10 cd/m2	3.81 cd/m2	0.73	0.55	0.75

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)



4.3 Valori delle Luminanze su: 2 - Tangenziale [UI,c1 (Tangenziale, Sezione 1)] - Oss. 1 [x=-60.00 y=4.59 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.80 cd/m ²	2.32 cd/m ²	3.05 cd/m ²	0.83	0.76	0.92

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

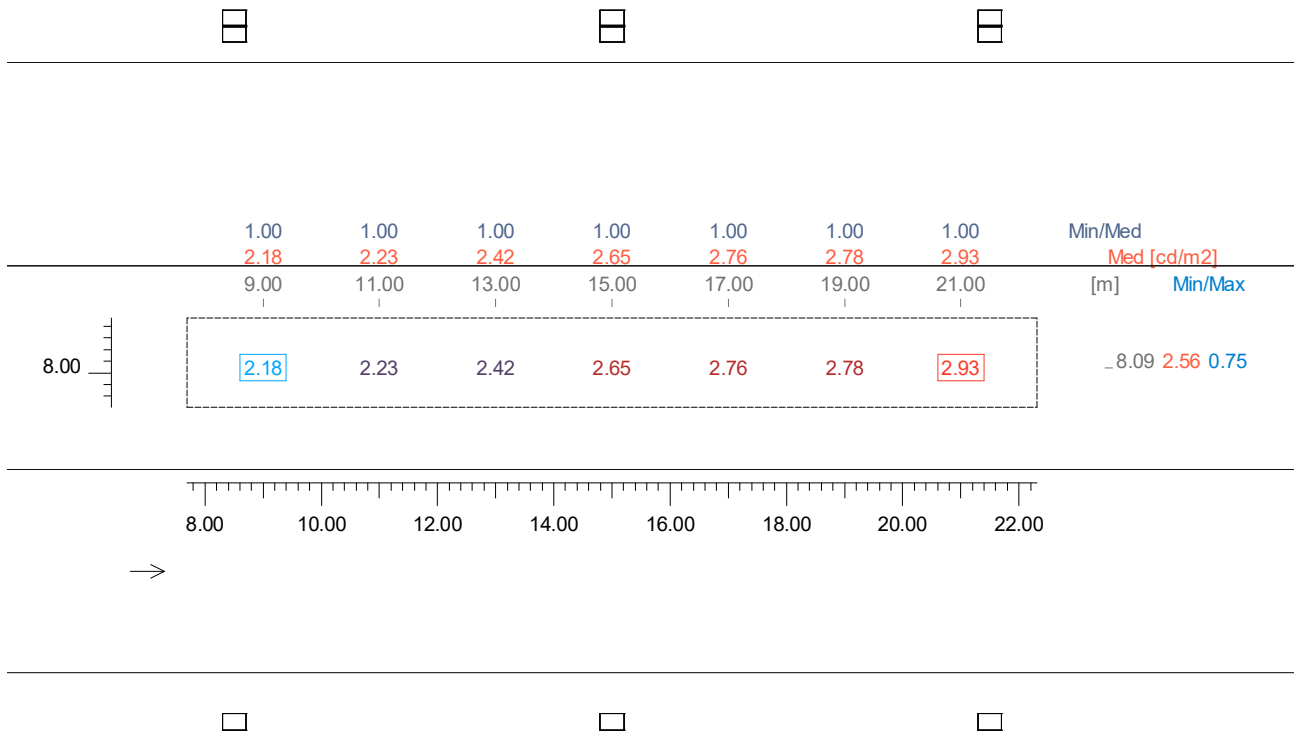


4.4 Valori delle Luminanze su: 2 - Tangenziale [UI,c2 (Tangenziale, Sezione 1)] - Oss. 1 [x=-60.00 y=4.59 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.56 cd/m ²	2.18 cd/m ²	2.93 cd/m ²	0.85	0.75	0.88

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

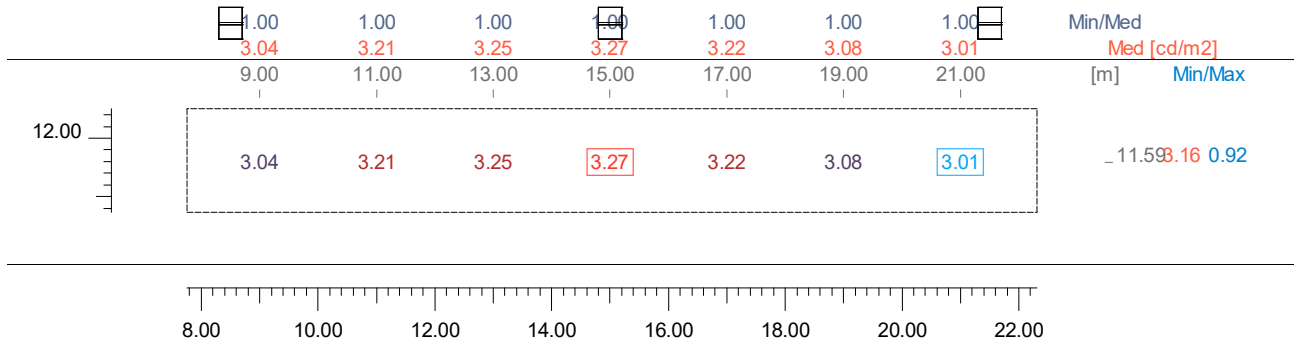


4.5 Valori delle Luminanze su: 2 - Tangenziale [UI,c3 (Tangenziale, Sezione 1)] - Oss. 1 [x=-60.00 y=4.59 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.16 cd/m ²	3.01 cd/m ²	3.27 cd/m ²	0.95	0.92	0.96

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)



→

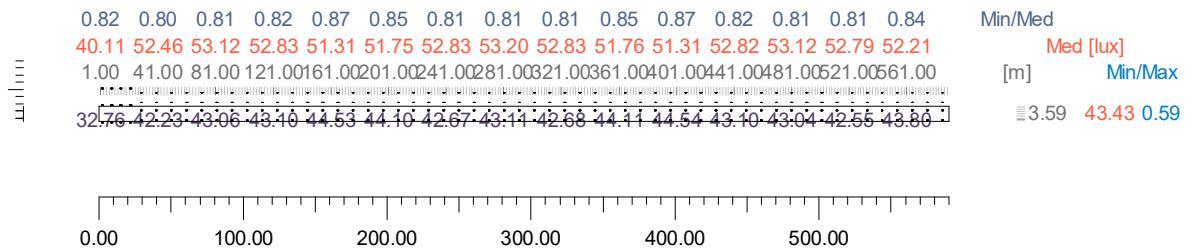


4.6 Valori di Illuminamento su: 2 - Tangenziale

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.36 lx	28.84 lx	68.18 lx	0.55	0.42	0.77

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

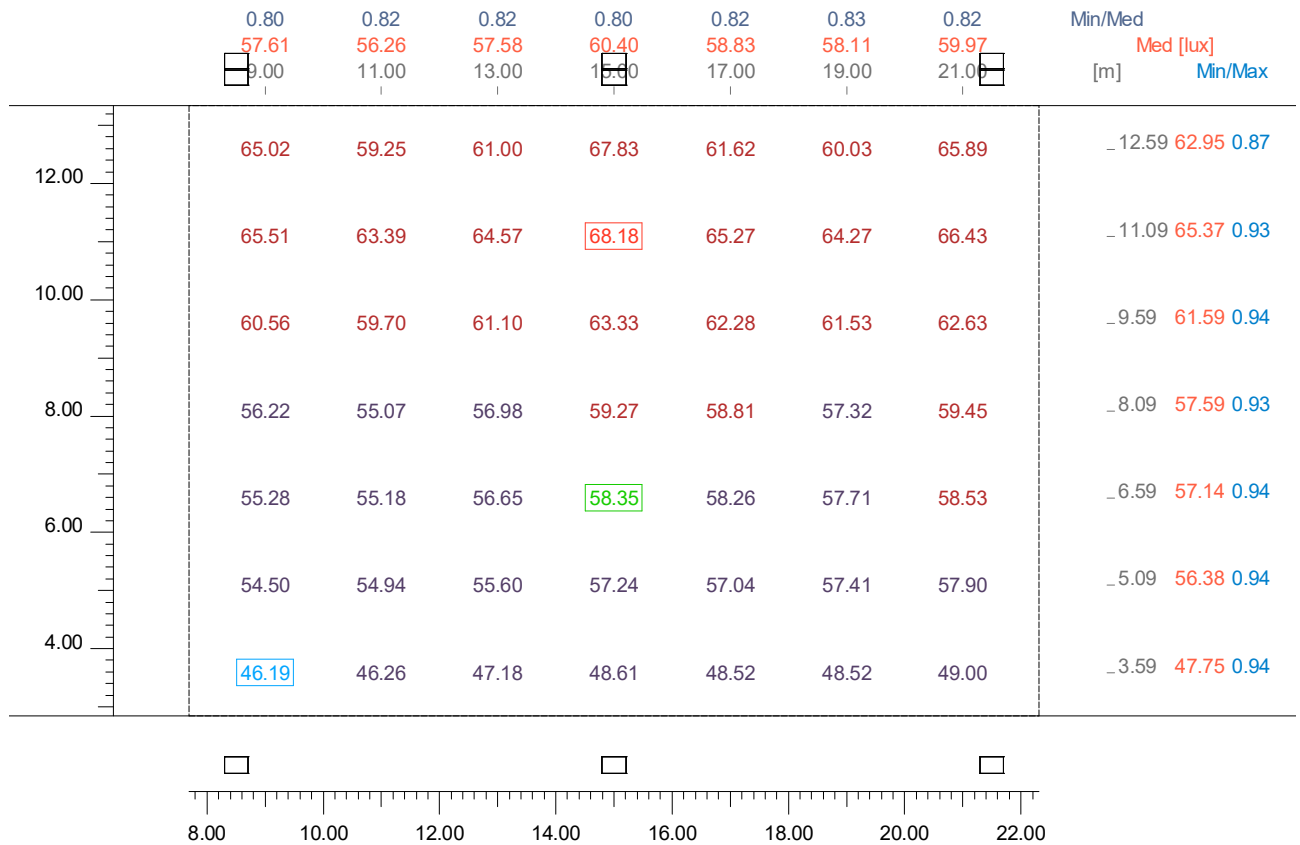


4.7 Valori di Illuminamento su: 2 - Tangenziale [Lp,c (Tangenziale, Sezione 1) - [1]]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	58.40 lx	46.19 lx	68.18 lx	0.79	0.68	0.86

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

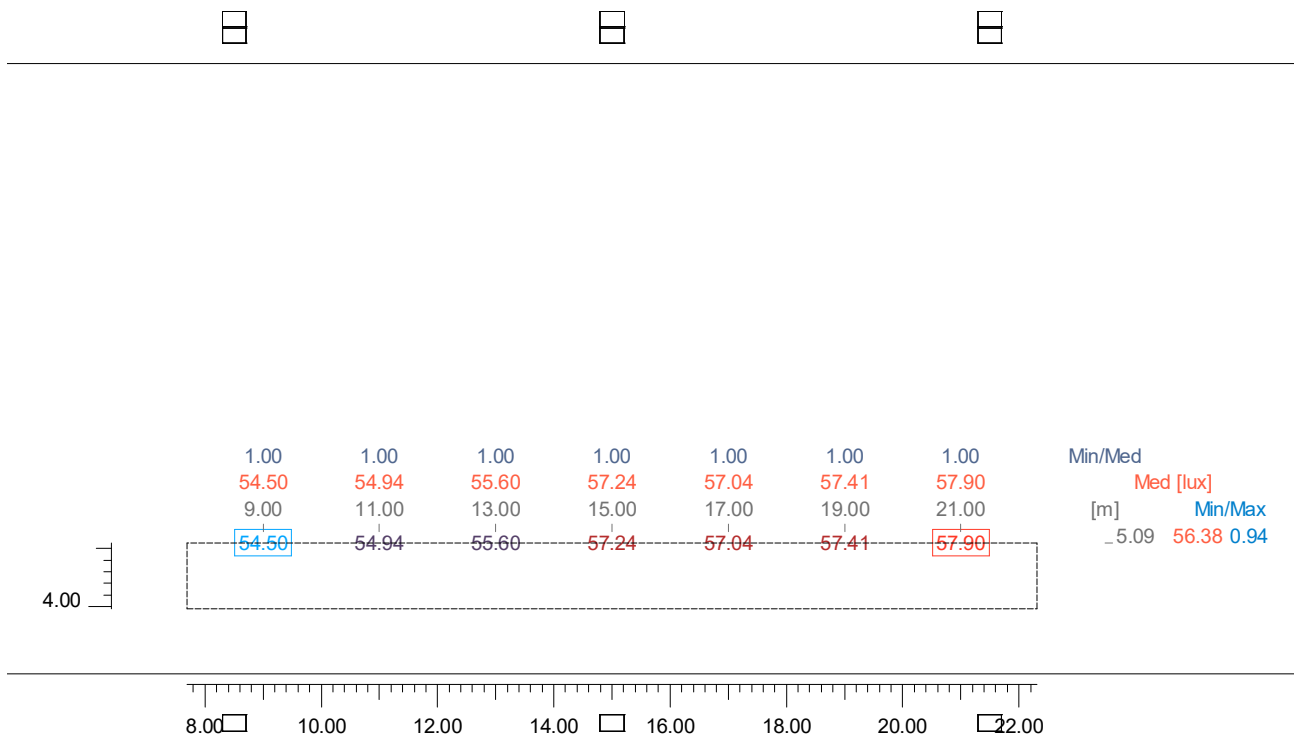


4.8 Valori di Illuminamento su: 2 - Tangenziale [U1,c1 (Tangenziale, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	56.38 lx	54.50 lx	57.90 lx	0.97	0.94	0.97

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

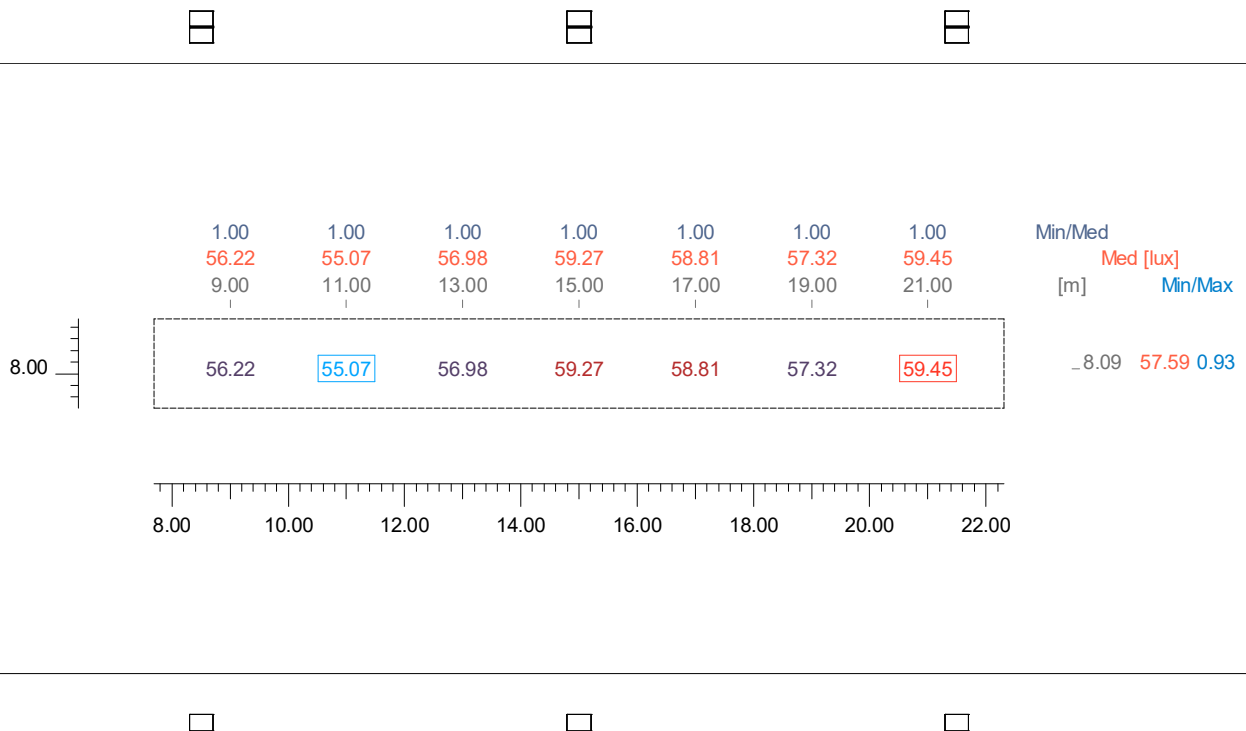


4.9 Valori di Illuminamento su: 2 - Tangenziale [UI,c2 (Tangenziale, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	57.59 lx	55.07 lx	59.45 lx	0.96	0.93	0.97

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

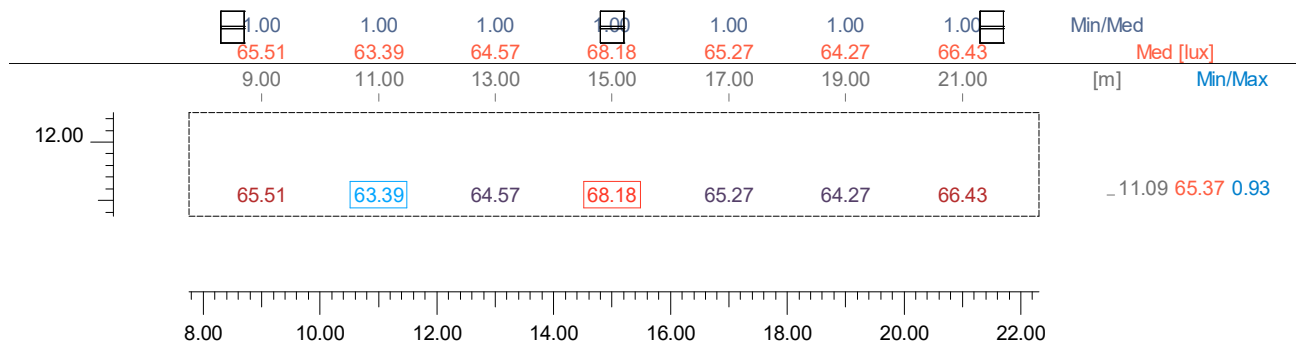


4.10 Valori di Illuminamento su: 2 - Tangenziale [UI,c3 (Tangenziale, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	65.37 lx	63.39 lx	68.18 lx	0.97	0.93	0.96

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

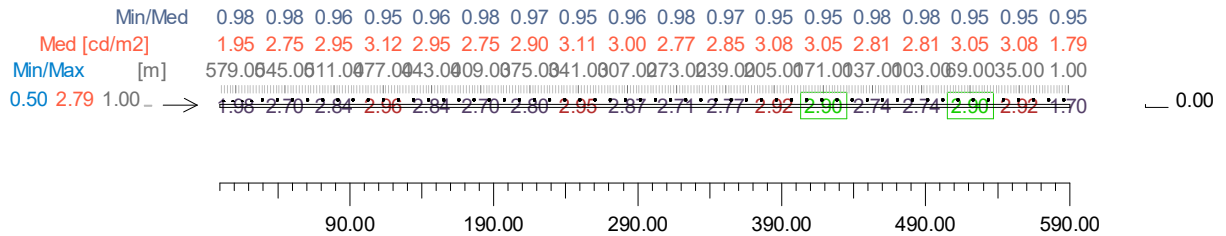


4.11 Valori delle Luminanze su: Parete Virtuale Destra - Oss. 1 (Lambert) [x=-60.00 y=1.42] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.89 cd/m2	1.49 cd/m2	3.29 cd/m2	0.51	0.45	0.88

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)



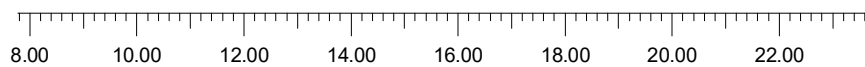
4.12 Valori delle Luminanze su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 1)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.34 cd/m2	1.92 cd/m2	2.95 cd/m2	0.82	0.65	0.79

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

	0.97	0.98	0.98	0.96	0.99	1.00	0.94	0.98	
Min/Med	0.97	0.98	0.98	0.96	0.99	1.00	0.94	0.98	
Med [cd/m2]	2.37	1.95	2.03	2.54	2.17	2.23	2.79	2.65	
Min/Max [m]	581.00	579.00	577.00	575.00	573.00	571.00	569.00	567.00	
0.65 2.38 1.70 →	2.45	1.92	1.98	2.63	2.14	2.24	2.95	2.71	2.00
0.75 2.30 1.00 →	2.29	1.98	2.08	2.44	2.19	2.22	2.63	2.58	0.00

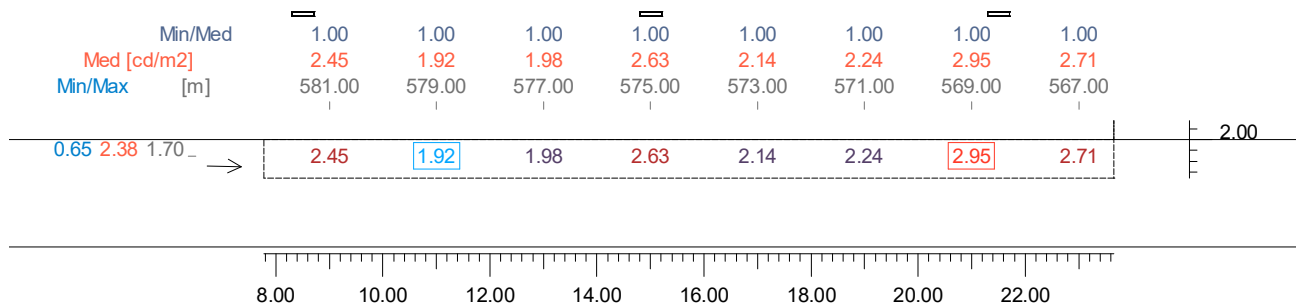


4.13 Valori delle Luminanze su: Parete Virtuale Destra [UI,pd (Tangenziale, Sezione 1)] - Oss. 1 (Lambe

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.38 cd/m2	1.92 cd/m2	2.95 cd/m2	0.81	0.65	0.81

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

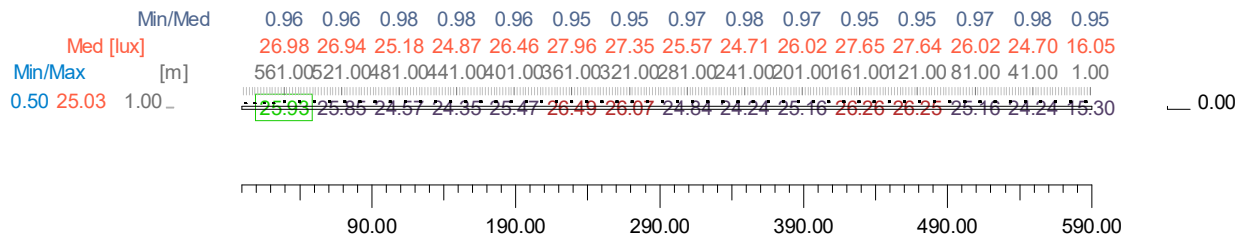


4.14 Valori di Illuminamento su: Parete Virtuale Destra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	25.98 lx	13.34 lx	29.57 lx	0.51	0.45	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



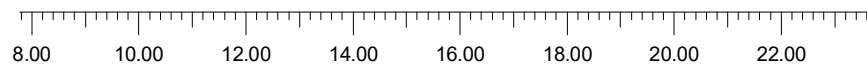
4.15 Valori di Illuminamento su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	21.01 lx	17.20 lx	26.44 lx	0.82	0.65	0.79

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	Min/Med	0.97	0.98	0.98	0.96	0.99	1.00	0.94	0.98	
Med [lux]		21.27	17.50	18.24	22.76	19.44	20.05	25.03	23.77	
Min/Max [m]		581.00	579.00	577.00	575.00	573.00	571.00	569.00	567.00	
0.65 21.34 1.70		21.99	17.20	17.80	23.58	19.18	20.15	26.44	24.35	2.00
0.75 20.68 1.00		20.55	17.81	18.67	21.95	19.70	19.96	23.62	23.20	0.00

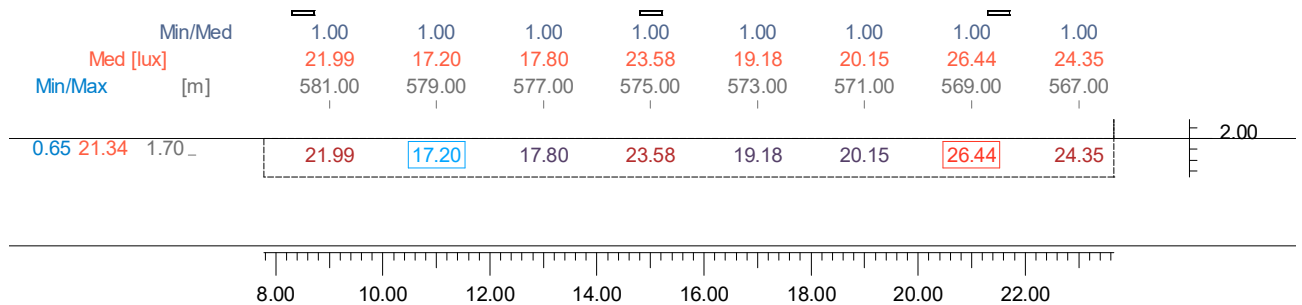


4.16 Valori di Illuminamento su: Parete Virtuale Destra [UI,pd (Tangenziale, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	21.34 lx	17.20 lx	26.44 lx	0.81	0.65	0.81

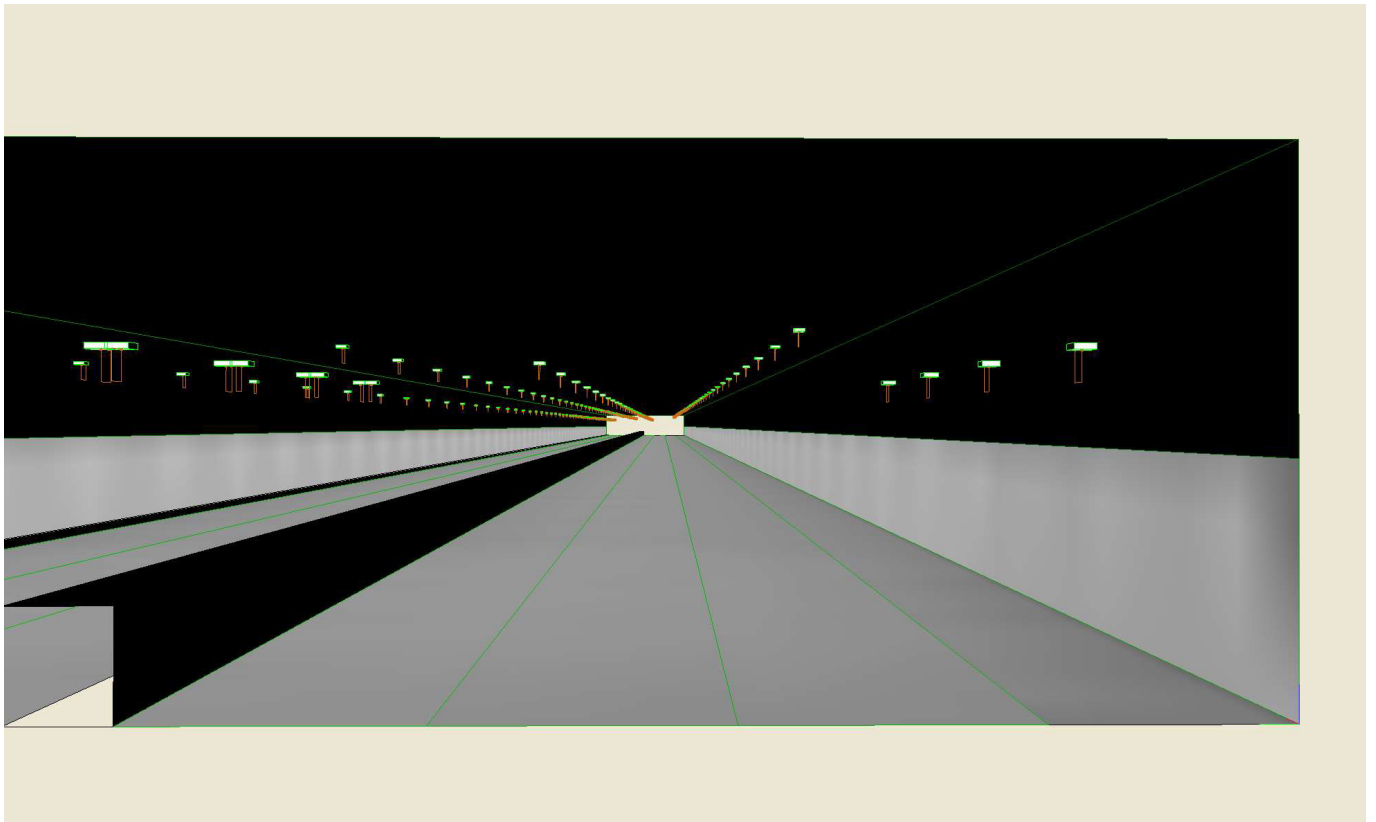
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

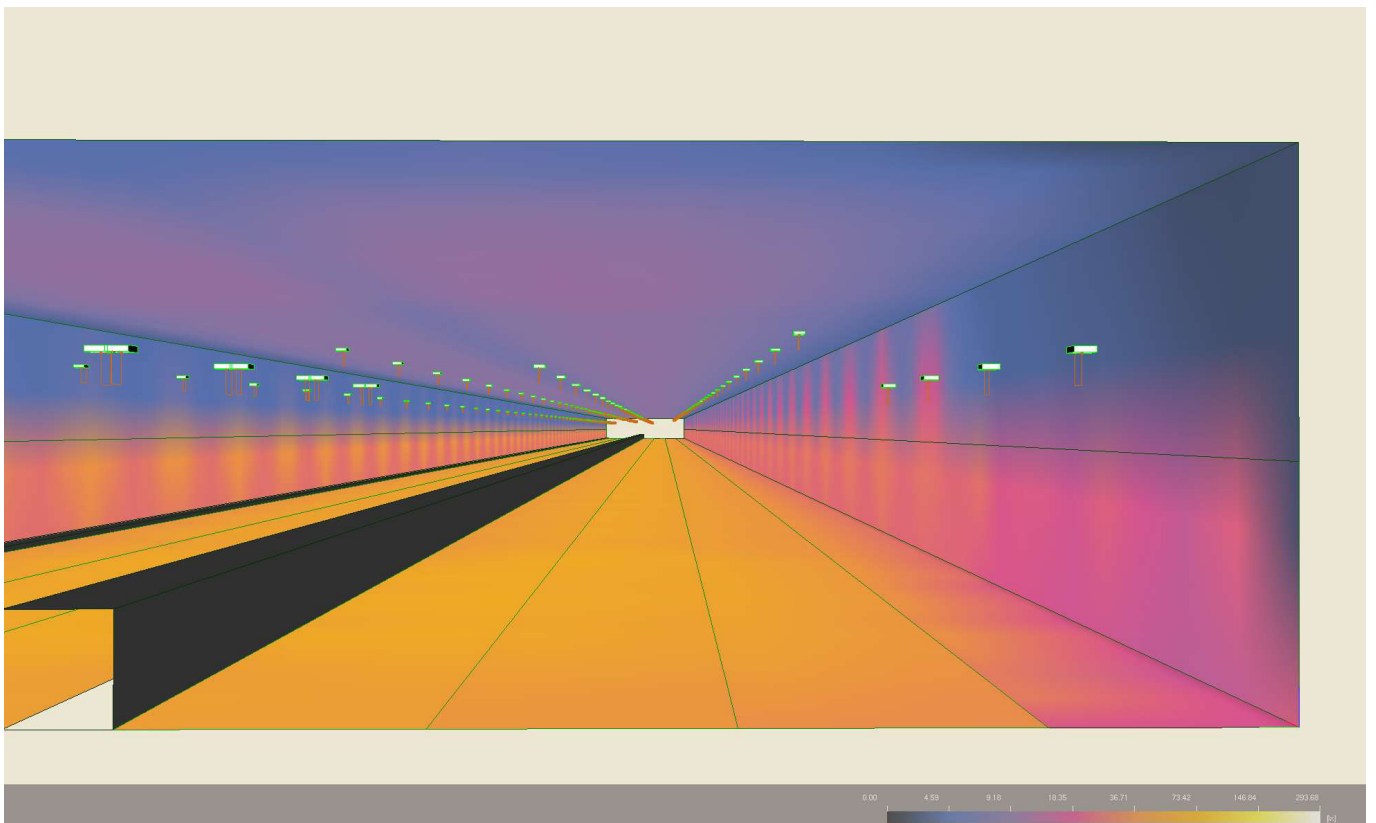


5. Immagini

5.1 Immagini



5.2 Immagini



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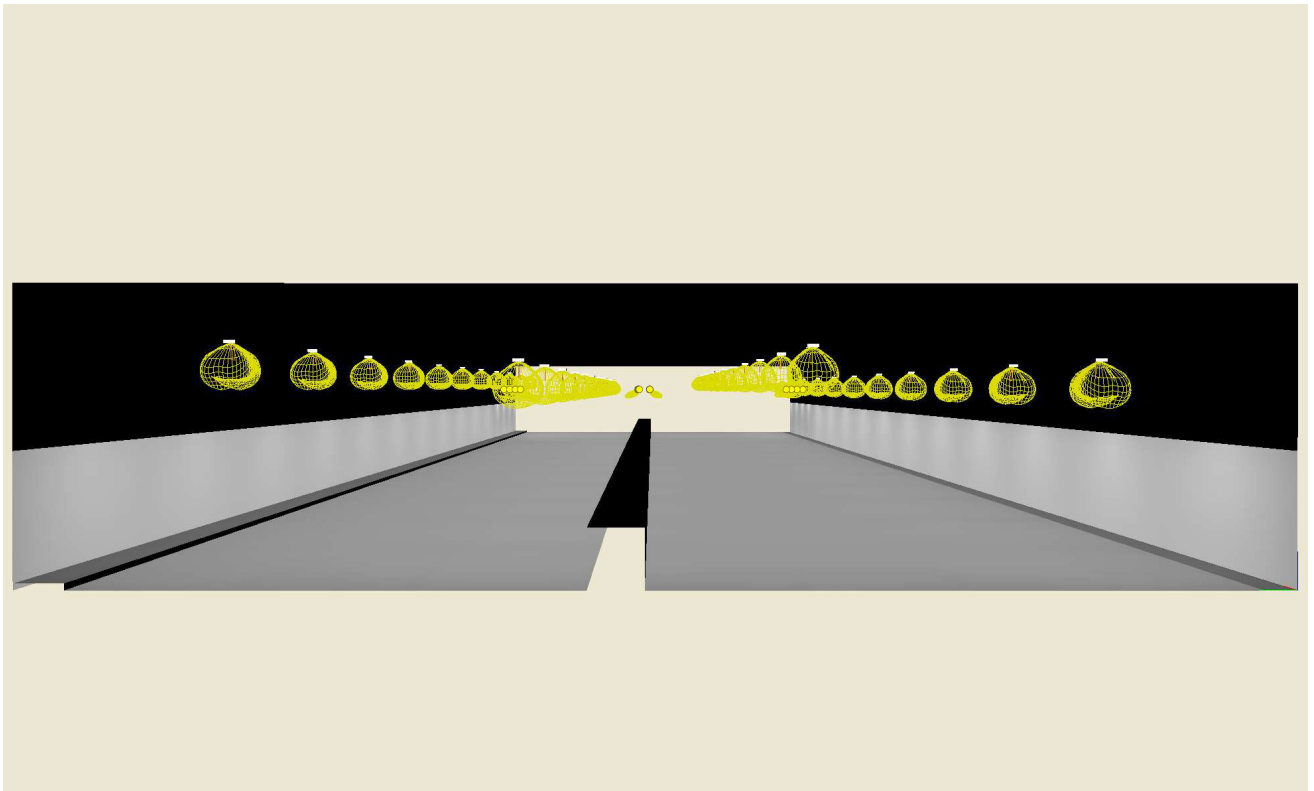
Galleria San Donnino

Note Installazione: Permanente - Autostrada - Sezione 1 (DIR MI)
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 17/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria 6.61m
Fattore di manutenzione 80%
H. corpi illuminanti come da tabella sotto

Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

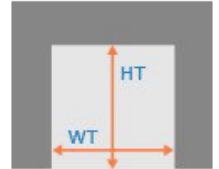
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

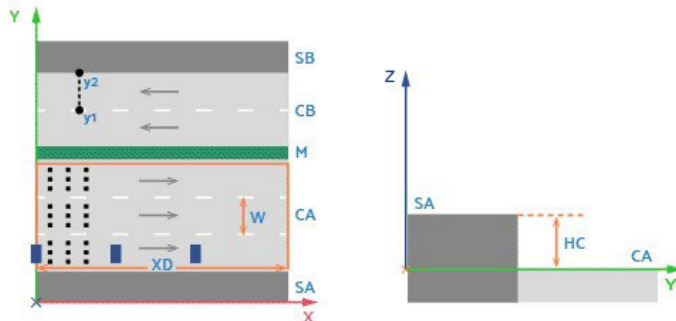
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice	Cubo (A)
Larghezza (WT)	27.66 m
Altezza (HT)	6.61 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%

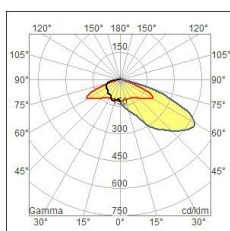


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Marciapiede	Pista Ciclo/Pedona	Marciapiede	--->	0.72	0.00	0.72	3	3	0.00		0.3000
2. Carreggiata	Carrabile	Corsia d'Emergenz	--->	2.84	0.72	3.56	3	3	0.00	C2	0.0560
3. Tangenziale	Carrabile			10.50	3.56	14.06	7		0.00	C2	0.0560
		3.1 Corsia 1	--->	3.50	3.56	7.06		3			
		3.2 Corsia 2	--->	3.50	7.06	10.56		3			
		3.3 Corsia 3	--->	3.50	10.56	14.06		3			
4. Mediana Centra	Secondaria	Mediana Centrale	--->	1.25	14.06	15.31	3	3	1.35		0.0000
5. Autostrada A14	Carrabile			11.25	15.31	26.56	8		0.00	C2	0.0560
		5.1 Corsia 1	--->	3.75	15.31	19.06		3			
		5.2 Corsia 2	--->	3.75	19.06	22.81		3			
		5.3 Corsia 3	--->	3.75	22.81	26.56		3			
6. Marciapiede B	Pista Ciclo/Pedona	Marciapiede	--->	1.10	26.56	27.66	3	3	0.15		0.3000

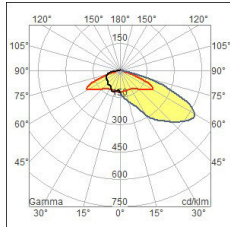


1.2 Informazioni Apparecchi/Rilievi

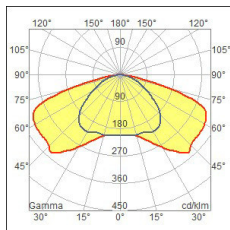
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8S 16D700_W201A (Radiant 8S 16D700_W201A)	Radiant 8S 16D700_W201A (Radiant 8S 16D700_W201A)	4770.00	0.80	100 %	255,255,255	8	Sorg-A	1



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coef. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	3101.00	0.80	100 %	255,255,255	8	Sorg-B	1



C	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	44	Sorg-C	1
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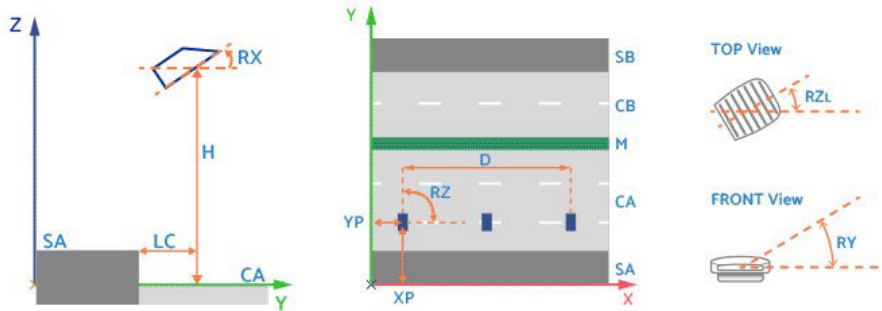


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		16D700 35W	16D700 35W	35.00	0.0000	4770	6000	8
Sorg-B		16D440 22W	16D440 22W	22.00	0.0000	3101	6000	8
Sorg-C		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	44

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altezz.App. [m] (H)	Num. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila B	C		5.00	3.00	5.00	11	10.50	0.00	105.00	0	0	-0
Fila B	C		5.00	10.00	5.35	11	10.50	0.00	105.00	0	0	-0
Fila B	C		5.00	17.15	5.00	11	10.50	0.00	105.00	0	0	-0
Fila B	C		5.00	24.15	5.45	11	10.50	0.00	105.00	0	0	-0
Row	A	Layer 0	119.20	0.50	4.31	4	6.50	0.00	19.50	0	0	0
Row	B	Layer 0	119.20	14.15	4.31	4	6.50	0.00	19.50	0	180	0
Row	B	Layer 0	119.20	15.20	4.31	4	6.50	0.00	19.50	0	0	0
Row	A	Layer 0	119.20	27.10	4.31	4	6.50	0.00	19.50	0	180	0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Marciapiede	Risultati	EAV = 36.7 lux	EMIN = 21.71 lux		
2 - Carreggiata	Risultati	LAV = 2.59 cd/m ²	Uo(L) = 0.50	UL = 0.49	fTI = 8 %
	Oss. 1) [x=-60.00 y=2.14] m	LAV = 2.59 cd/m ² *	Uo(L) = 0.50 *	UL = 0.49 *	fTI = 7.72 % *
	Oss.Ti [x=100.14 y=2.14] m	Lv = 0.26			
3 - Tangenziale	Risultati	LAV = 2.42 cd/m ²	Uo(L) = 0.56	UL = 0.47	fTI = 9 %
	Oss. 1) [x=-60.00 y=5.31] m	LAV = 2.42 cd/m ² *	Uo(L) = 0.56	UL = 0.63	
	Oss. 2) [x=-60.00 y=8.81] m	LAV = 2.44 cd/m ²	Uo(L) = 0.56	UL = 0.47 *	
	Oss. 3) [x=-60.00 y=12.31] m	LAV = 2.45 cd/m ²	Uo(L) = 0.56 *	UL = 0.54	
	Oss.Ti 1) [x=-5.86 y=5.31] m				fTI = 8.09 %
	Oss.Ti 2) [x=-5.86 y=8.81] m				fTI = 8.54 % *
	Oss.Ti 3) [x=-5.86 y=12.31] m				fTI = 7.88 %
	Lv = 0.28				
5 - Autostrada A14	Risultati	LAV = 2.51 cd/m ²	Uo(L) = 0.48	UL = 0.42	fTI = 10 %
	Oss. 1) [x=-60.00 y=17.18] m	LAV = 2.51 cd/m ² *	Uo(L) = 0.48 *	UL = 0.42 *	
	Oss. 2) [x=-60.00 y=20.93] m	LAV = 2.52 cd/m ²	Uo(L) = 0.53	UL = 0.64	
	Oss. 3) [x=-60.00 y=24.68] m	LAV = 2.52 cd/m ²	Uo(L) = 0.58	UL = 0.56	
	Oss.Ti 1) [x=-5.86 y=17.18] m				fTI = 9.79 % *
	Oss.Ti 2) [x=-5.86 y=20.93] m				fTI = 7.51 %
	Oss.Ti 3) [x=-5.86 y=24.68] m				fTI = 8.02 %
	Lv = 0.32				
6 - Marciapiede B	Risultati	EAV = 34.2 lux	EMIN = 18.79 lux		

Riepilogo Uniformità di Luminanza:

Sezione Permanente	[10.00..130.00] m	(Luminanza Costante)		
Parete Destra	LAV%,(pd/c,o1) = 126.8 %	LAV,pd=3.35 cd/m ²	Uo,pd=0.50	Ul,pd=0.39 (y=1.70 m)
Parete Sinistra	LAV%,(ps/c,o1) = 115.5 %	LAV,ps=3.05 cd/m ²	Uo,ps=0.63	Ul,ps=0.54 (y=1.70 m)
1 - Marciapiede	LAV%,(md/c,o1) = 134.5 %	LAV,md,o1=3.55 cd/m ²	Uo,md,o1=0.83	Ul,o1=0.77 (y=8.36 m)
2 - Carreggiata	---	LAV,c,o1=2.64 cd/m ²	Uo,c,o1=0.72	Ul,o1=0.67 (y=2.14 m)
3 - Tangenziale	---	LAV,c,o1=2.48 cd/m ²	Uo,c,o3=0.69	Ul,o2=0.60 (y=8.81 m)
---	Oss. 1) [x=-60.00 y=5.31] m	LAV,c,o1=2.48 cd/m ² *	Uo,c,o1=0.71	Ul,o1=0.75 (y=5.31 m)
---	Oss. 2) [x=-60.00 y=8.81] m	LAV,c,o2=2.50 cd/m ²	Uo,c,o2=0.71	Ul,o2=0.60 (y=8.81 m) *
---	Oss. 3) [x=-60.00 y=12.31] m	LAV,c,o3=2.51 cd/m ²	Uo,c,o3=0.69 *	Ul,o3=0.75 (y=12.31 m)
5 - Autostrada A14	---	LAV,c,o1=2.56 cd/m ²	Uo,c,o1=0.60	Ul,o3=0.56 (y=24.68 m)
---	Oss. 1) [x=-60.00 y=17.18] m	LAV,c,o1=2.56 cd/m ² *	Uo,c,o1=0.60 *	Ul,o1=0.58 (y=17.18 m)
---	Oss. 2) [x=-60.00 y=20.93] m	LAV,c,o2=2.56 cd/m ²	Uo,c,o2=0.65	Ul,o2=0.73 (y=20.93 m)
---	Oss. 3) [x=-60.00 y=24.68] m	LAV,c,o3=2.57 cd/m ²	Uo,c,o3=0.65	Ul,o3=0.56 (y=24.68 m)
6 - Marciapiede B	LAV%,(ms/c,o1) = 123.6 %	LAV,ms,o1=3.26 cd/m ²	Uo,ms,o1=0.85	Ul,o1=0.64 (y=27.11 m)

6 - Marciapiede B $L_{Av\%,(ms/c,o1)} = 123.6 \%$ $L_{Av,ms,o1} = 3.26 \text{ cd/m}^2$ $U_{o,ms,o1} = 0.85$ $U_{l,o1} = 0.64$ (y=27.11 m)
pd: Parete Destra ps: Parete Sinistra c: Carreggiata cm: Corsie di Marcia
md: Marciapiede Destro ms: Marciapiede Sinistro o: Osservatore

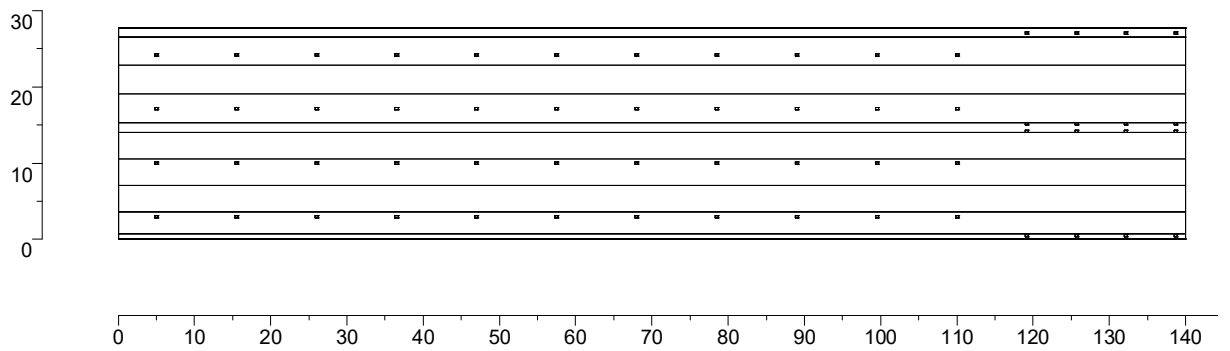
Inquinamento Luminoso

Rapporto Medio - R_n -

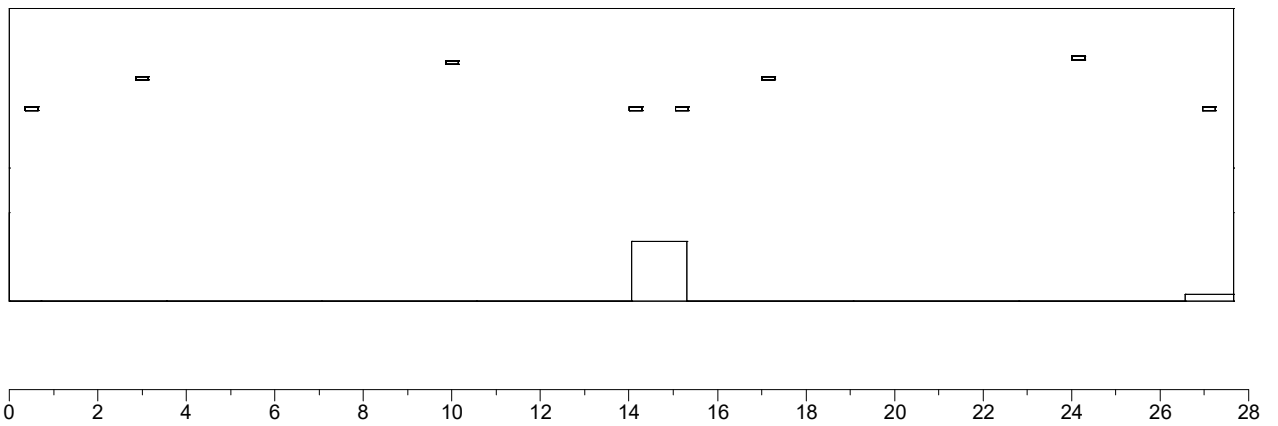
0.05 %

2. Viste Ambiente

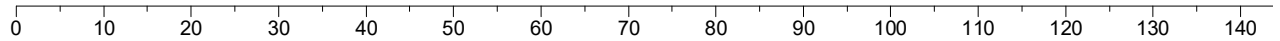
2.1 Vista 2D in Pianta



2.2 Vista Laterale

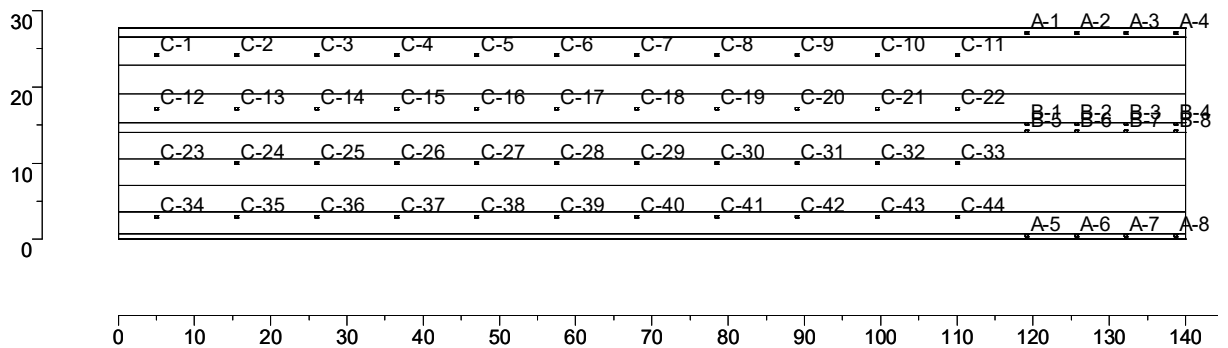


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	119.20	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-2	100 %	125.70	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-3	100 %	132.20	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-4	100 %	138.70	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-5	100 %	119.20	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
A-6	100 %	125.70	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
A-7	100 %	132.20	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
A-8	100 %	138.70	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
B-1	100 %	119.20	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-2	100 %	125.70	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-3	100 %	132.20	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-4	100 %	138.70	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-5	100 %	119.20	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-6	100 %	125.70	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-7	100 %	132.20	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-8	100 %	138.70	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
C-1	100 %	5.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-2	100 %	15.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-3	100 %	26.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-4	100 %	36.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-5	100 %	47.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-6	100 %	57.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-7	100 %	68.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-8	100 %	78.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-9	100 %	89.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-10	100 %	99.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-11	100 %	110.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-12	100 %	5.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-13	100 %	15.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-14	100 %	26.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-15	100 %	36.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-16	100 %	47.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-17	100 %	57.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-18	100 %	68.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-19	100 %	78.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-20	100 %	89.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-21	100 %	99.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-22	100 %	110.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-23	100 %	5.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-24	100 %	15.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-25	100 %	26.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-26	100 %	36.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-27	100 %	47.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-28	100 %	57.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-29	100 %	68.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-30	100 %	78.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-31	100 %	89.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-32	100 %	99.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-33	100 %	110.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-34	100 %	5.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-35	100 %	15.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-36	100 %	26.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-37	100 %	36.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-38	100 %	47.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-39	100 %	57.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-40	100 %	68.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-41	100 %	78.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-42	100 %	89.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-43	100 %	99.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-44	100 %	110.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8S 16D700_W201A	100 %	119.20	27.10	4.31	0.0	-0.0	180.0	119.20	27.10	0.00	0.0
A-2		Radiant 8S 16D700_W201A	100 %	125.70	27.10	4.31	0.0	-0.0	180.0	125.70	27.10	0.00	0.0
A-3		Radiant 8S 16D700_W201A	100 %	132.20	27.10	4.31	0.0	-0.0	180.0	132.20	27.10	0.00	0.0
A-4		Radiant 8S 16D700_W201A	100 %	138.70	27.10	4.31	0.0	-0.0	180.0	138.70	27.10	0.00	0.0
A-5		Radiant 8S 16D700_W201A	100 %	119.20	0.50	4.31	0.0	-0.0	0.0	119.20	0.50	0.00	0.0
A-6		Radiant 8S 16D700_W201A	100 %	125.70	0.50	4.31	0.0	-0.0	0.0	125.70	0.50	0.00	0.0
A-7		Radiant 8S 16D700_W201A	100 %	132.20	0.50	4.31	0.0	-0.0	0.0	132.20	0.50	0.00	0.0
A-8		Radiant 8S 16D700_W201A	100 %	138.70	0.50	4.31	0.0	-0.0	0.0	138.70	0.50	0.00	0.0
B-1		Radiant 8S 16D440_W201A	100 %	119.20	15.20	4.31	0.0	-0.0	0.0	119.20	15.20	0.00	0.0
B-2		Radiant 8S 16D440_W201A	100 %	125.70	15.20	4.31	0.0	-0.0	0.0	125.70	15.20	0.00	0.0
B-3		Radiant 8S 16D440_W201A	100 %	132.20	15.20	4.31	0.0	-0.0	0.0	132.20	15.20	0.00	0.0
B-4		Radiant 8S 16D440_W201A	100 %	138.70	15.20	4.31	0.0	-0.0	0.0	138.70	15.20	0.00	0.0
B-5		Radiant 8S 16D440_W201A	100 %	119.20	14.15	4.31	0.0	-0.0	180.0	119.20	14.15	0.00	0.0
B-6		Radiant 8S 16D440_W201A	100 %	125.70	14.15	4.31	0.0	-0.0	180.0	125.70	14.15	0.00	0.0
B-7		Radiant 8S 16D440_W201A	100 %	132.20	14.15	4.31	0.0	-0.0	180.0	132.20	14.15	0.00	0.0
B-8		Radiant 8S 16D440_W201A	100 %	138.70	14.15	4.31	0.0	-0.0	180.0	138.70	14.15	0.00	0.0
C-1		Radiant 8S 16D700_W244S	100 %	5.00	24.15	5.45	0.0	-0.0	0.0	5.00	24.15	0.00	0.0
C-2		Radiant 8S 16D700_W244S	100 %	15.50	24.15	5.45	0.0	-0.0	0.0	15.50	24.15	0.00	0.0
C-3		Radiant 8S 16D700_W244S	100 %	26.00	24.15	5.45	0.0	-0.0	0.0	26.00	24.15	0.00	0.0
C-4		Radiant 8S 16D700_W244S	100 %	36.50	24.15	5.45	0.0	-0.0	0.0	36.50	24.15	0.00	0.0
C-5		Radiant 8S 16D700_W244S	100 %	47.00	24.15	5.45	0.0	-0.0	0.0	47.00	24.15	0.00	0.0
C-6		Radiant 8S 16D700_W244S	100 %	57.50	24.15	5.45	0.0	-0.0	0.0	57.50	24.15	0.00	0.0
C-7		Radiant 8S 16D700_W244S	100 %	68.00	24.15	5.45	0.0	-0.0	0.0	68.00	24.15	0.00	0.0
C-8		Radiant 8S 16D700_W244S	100 %	78.50	24.15	5.45	0.0	-0.0	0.0	78.50	24.15	0.00	0.0
C-9		Radiant 8S 16D700_W244S	100 %	89.00	24.15	5.45	0.0	-0.0	0.0	89.00	24.15	0.00	0.0
C-10		Radiant 8S 16D700_W244S	100 %	99.50	24.15	5.45	0.0	-0.0	0.0	99.50	24.15	0.00	0.0
C-11		Radiant 8S 16D700_W244S	100 %	110.00	24.15	5.45	0.0	-0.0	0.0	110.00	24.15	0.00	0.0
C-12		Radiant 8S 16D700_W244S	100 %	5.00	17.15	5.00	0.0	-0.0	0.0	5.00	17.15	0.00	0.0
C-13		Radiant 8S 16D700_W244S	100 %	15.50	17.15	5.00	0.0	-0.0	0.0	15.50	17.15	0.00	0.0
C-14		Radiant 8S 16D700_W244S	100 %	26.00	17.15	5.00	0.0	-0.0	0.0	26.00	17.15	0.00	0.0
C-15		Radiant 8S 16D700_W244S	100 %	36.50	17.15	5.00	0.0	-0.0	0.0	36.50	17.15	0.00	0.0
C-16		Radiant 8S 16D700_W244S	100 %	47.00	17.15	5.00	0.0	-0.0	0.0	47.00	17.15	0.00	0.0
C-17		Radiant 8S 16D700_W244S	100 %	57.50	17.15	5.00	0.0	-0.0	0.0	57.50	17.15	0.00	0.0
C-18		Radiant 8S 16D700_W244S	100 %	68.00	17.15	5.00	0.0	-0.0	0.0	68.00	17.15	0.00	0.0
C-19		Radiant 8S 16D700_W244S	100 %	78.50	17.15	5.00	0.0	-0.0	0.0	78.50	17.15	0.00	0.0
C-20		Radiant 8S 16D700_W244S	100 %	89.00	17.15	5.00	0.0	-0.0	0.0	89.00	17.15	0.00	0.0
C-21		Radiant 8S 16D700_W244S	100 %	99.50	17.15	5.00	0.0	-0.0	0.0	99.50	17.15	0.00	0.0
C-22		Radiant 8S 16D700_W244S	100 %	110.00	17.15	5.00	0.0	-0.0	0.0	110.00	17.15	0.00	0.0
C-23		Radiant 8S 16D700_W244S	100 %	5.00	10.00	5.35	0.0	-0.0	0.0	5.00	10.00	0.00	0.0
C-24		Radiant 8S 16D700_W244S	100 %	15.50	10.00	5.35	0.0	-0.0	0.0	15.50	10.00	0.00	0.0
C-25		Radiant 8S 16D700_W244S	100 %	26.00	10.00	5.35	0.0	-0.0	0.0	26.00	10.00	0.00	0.0
C-26		Radiant 8S 16D700_W244S	100 %	36.50	10.00	5.35	0.0	-0.0	0.0	36.50	10.00	0.00	0.0
C-27		Radiant 8S 16D700_W244S	100 %	47.00	10.00	5.35	0.0	-0.0	0.0	47.00	10.00	0.00	0.0
C-28		Radiant 8S 16D700_W244S	100 %	57.50	10.00	5.35	0.0	-0.0	0.0	57.50	10.00	0.00	0.0
C-29		Radiant 8S 16D700_W244S	100 %	68.00	10.00	5.35	0.0	-0.0	0.0	68.00	10.00	0.00	0.0
C-30		Radiant 8S 16D700_W244S	100 %	78.50	10.00	5.35	0.0	-0.0	0.0	78.50	10.00	0.00	0.0
C-31		Radiant 8S 16D700_W244S	100 %	89.00	10.00	5.35	0.0	-0.0	0.0	89.00	10.00	0.00	0.0
C-32		Radiant 8S 16D700_W244S	100 %	99.50	10.00	5.35	0.0	-0.0	0.0	99.50	10.00	0.00	0.0
C-33		Radiant 8S 16D700_W244S	100 %	110.00	10.00	5.35	0.0	-0.0	0.0	110.00	10.00	0.00	0.0
C-34		Radiant 8S 16D700_W244S	100 %	5.00	3.00	5.00	0.0	-0.0	0.0	5.00	3.00	0.00	0.0
C-35		Radiant 8S 16D700_W244S	100 %	15.50	3.00	5.00	0.0	-0.0	0.0	15.50	3.00	0.00	0.0
C-36		Radiant 8S 16D700_W244S	100 %	26.00	3.00	5.00	0.0	-0.0	0.0	26.00	3.00	0.00	0.0
C-37		Radiant 8S 16D700_W244S	100 %	36.50	3.00	5.00	0.0	-0.0	0.0	36.50	3.00	0.00	0.0
C-38		Radiant 8S 16D700_W244S	100 %	47.00	3.00	5.00	0.0	-0.0	0.0	47.00	3.00	0.00	0.0
C-39		Radiant 8S 16D700_W244S	100 %	57.50	3.00	5.00	0.0	-0.0	0.0	57.50	3.00	0.00	0.0
C-40		Radiant 8S 16D700_W244S	100 %	68.00	3.00	5.00	0.0	-0.0	0.0	68.00	3.00	0.00	0.0
C-41		Radiant 8S 16D700_W244S	100 %	78.50	3.00	5.00	0.0	-0.0	0.0	78.50	3.00	0.00	0.0
C-42		Radiant 8S 16D700_W244S	100 %	89.00	3.00	5.00	0.0	-0.0	0.0	89.00	3.00	0.00	0.0
C-43		Radiant 8S 16D700_W244S	100 %	99.50	3.00	5.00	0.0	-0.0	0.0	99.50	3.00	0.00	0.0
C-44		Radiant 8S 16D700_W244S	100 %	110.00	3.00	5.00	0.0	-0.0	0.0	110.00	3.00	0.00	0.0

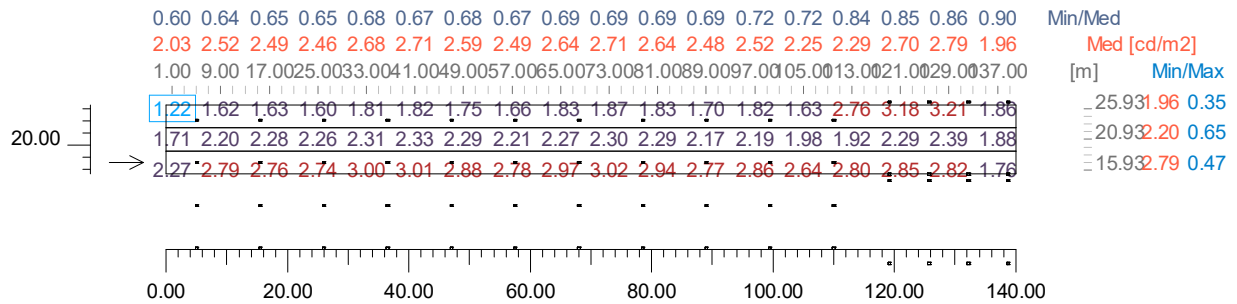
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 5 - Autostrada A14 - Oss. 1 [x=-60.00 y=17.18] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.51 cd/m2	1.22 cd/m2	3.60 cd/m2	0.48	0.34	0.70

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

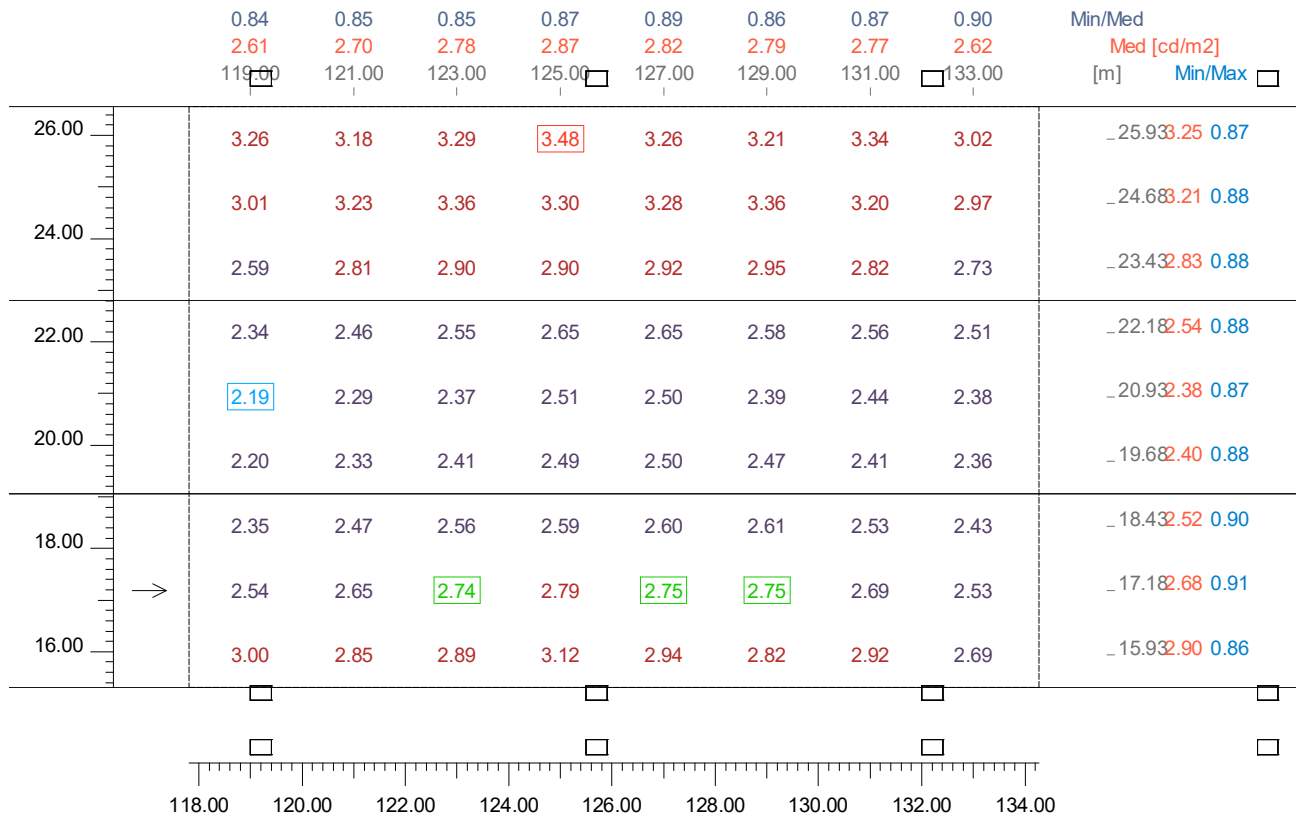


4.2 Valori delle Luminanze su: 5 - Autostrada A14 [Lp,c (Autostrada - Sezione 1)] - Oss. 1 [x=-60.00 y=1

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.75 cd/m2	2.19 cd/m2	3.48 cd/m2	0.80	0.63	0.79

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

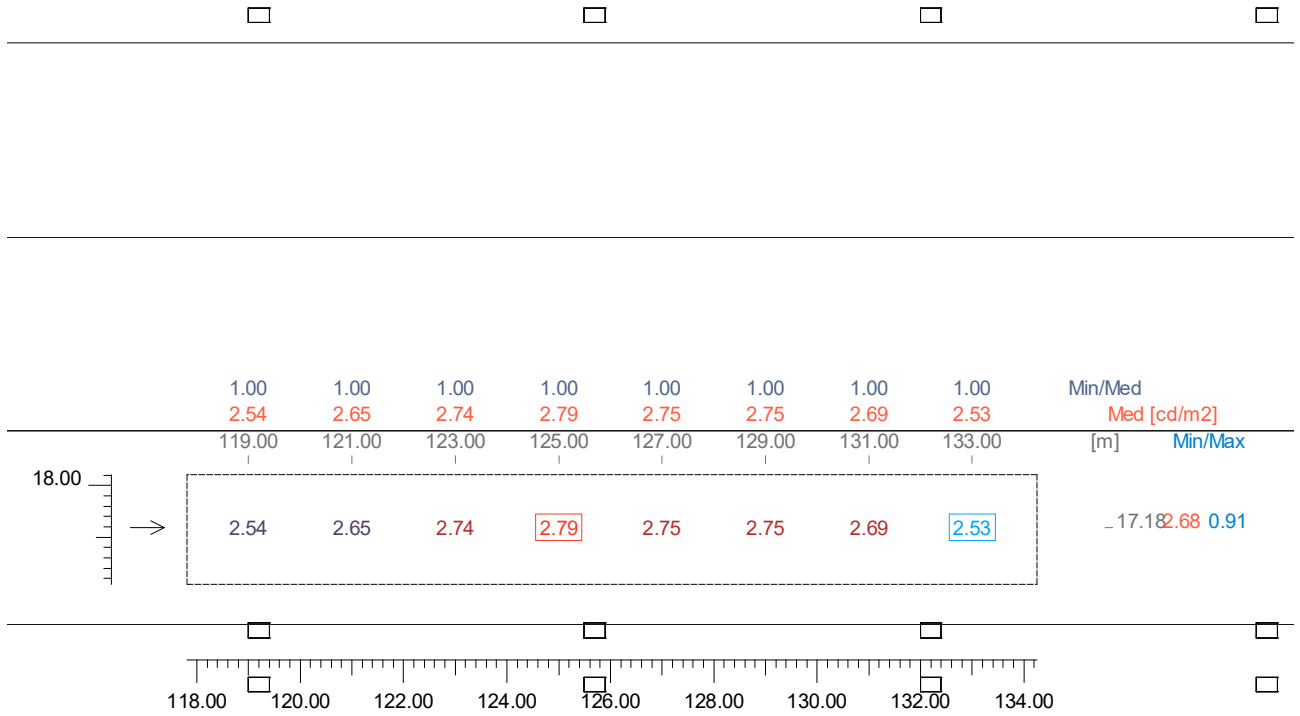


4.3 Valori delle Luminanze su: 5 - Autostrada A14 [UI,c1 (Autostrada, Sezione 1)] - Oss. 1 [x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.68 cd/m2	2.53 cd/m2	2.79 cd/m2	0.95	0.91	0.96

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

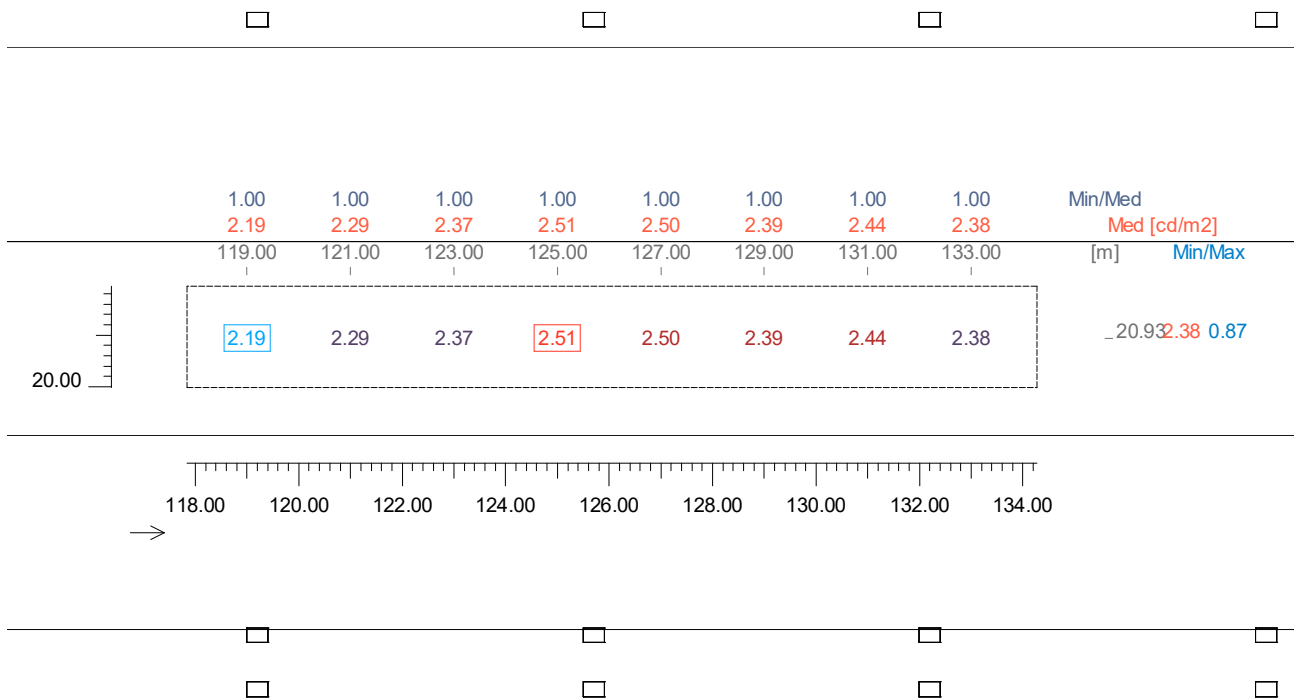


4.4 Valori delle Luminanze su: 5 - Autostrada A14 [UI,c2 (Autostrada, Sezione 1)] - Oss. 1 [x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.38 cd/m ²	2.19 cd/m ²	2.51 cd/m ²	0.92	0.87	0.95

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

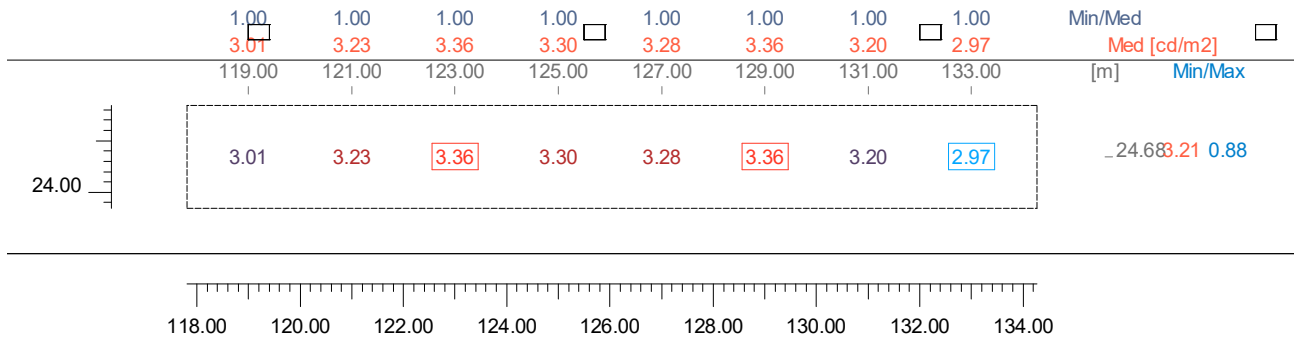


4.5 Valori delle Luminanze su: 5 - Autostrada A14 [UI,c3 (Autostrada, Sezione 1)] - Oss. 1 [x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.21 cd/m ²	2.97 cd/m ²	3.36 cd/m ²	0.92	0.88	0.96

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)



→

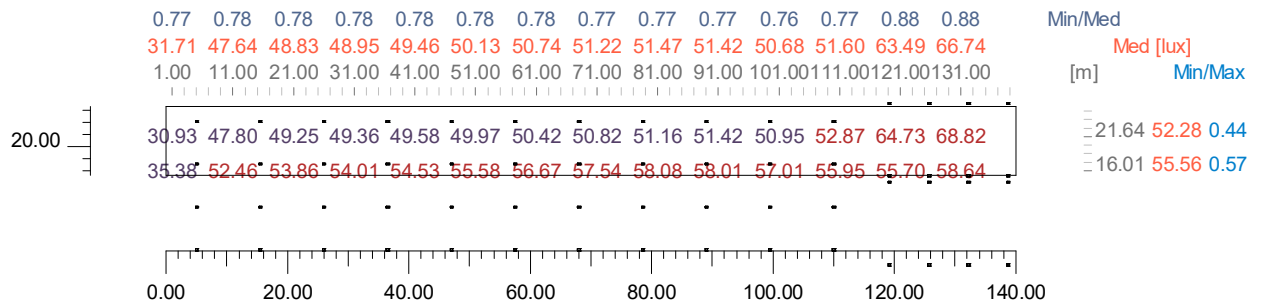


4.6 Valori di Illuminamento su: 5 - Autostrada A14

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.06 lx	24.57 lx	75.24 lx	0.47	0.33	0.69

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

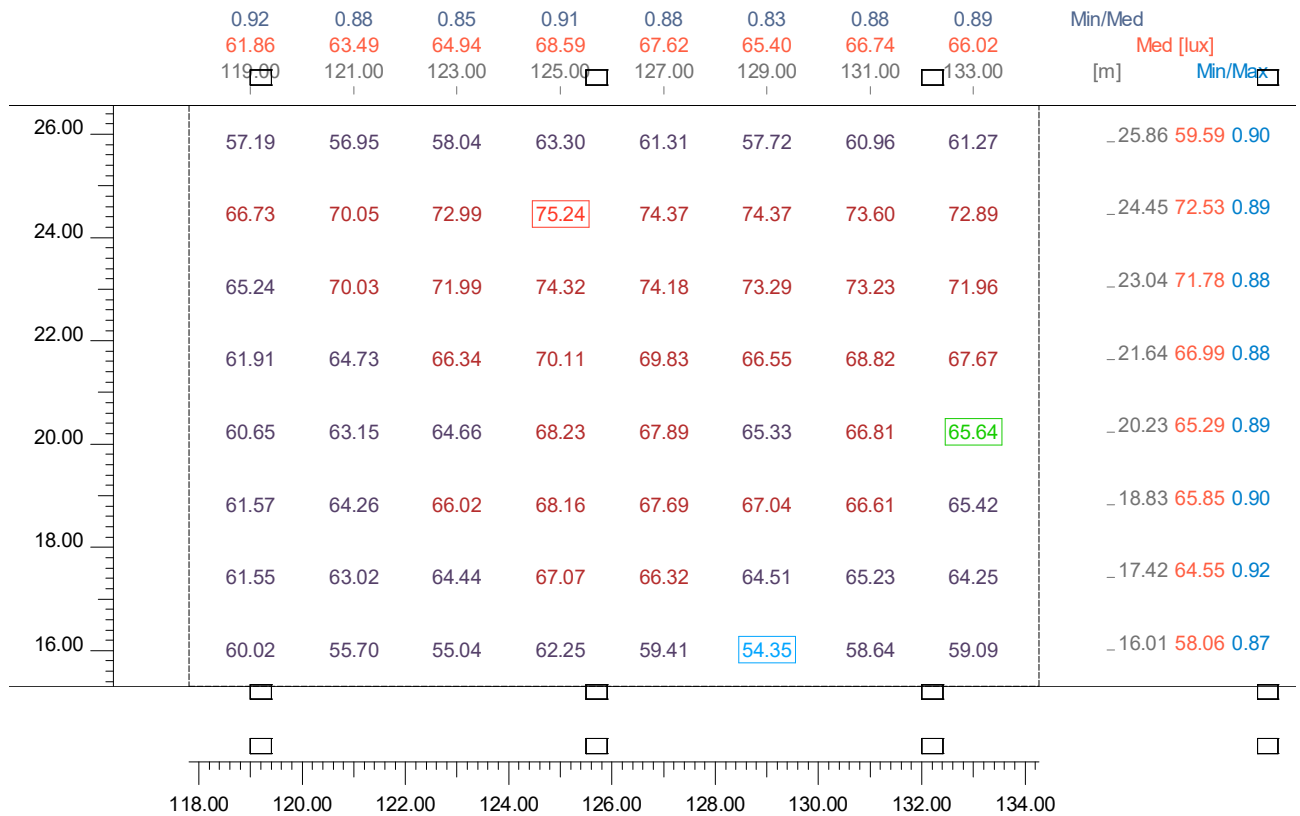


4.7 Valori di Illuminamento su: 5 - Autostrada A14 [Lp,c (Autostrada - Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	65.58 lx	54.35 lx	75.24 lx	0.83	0.72	0.87

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

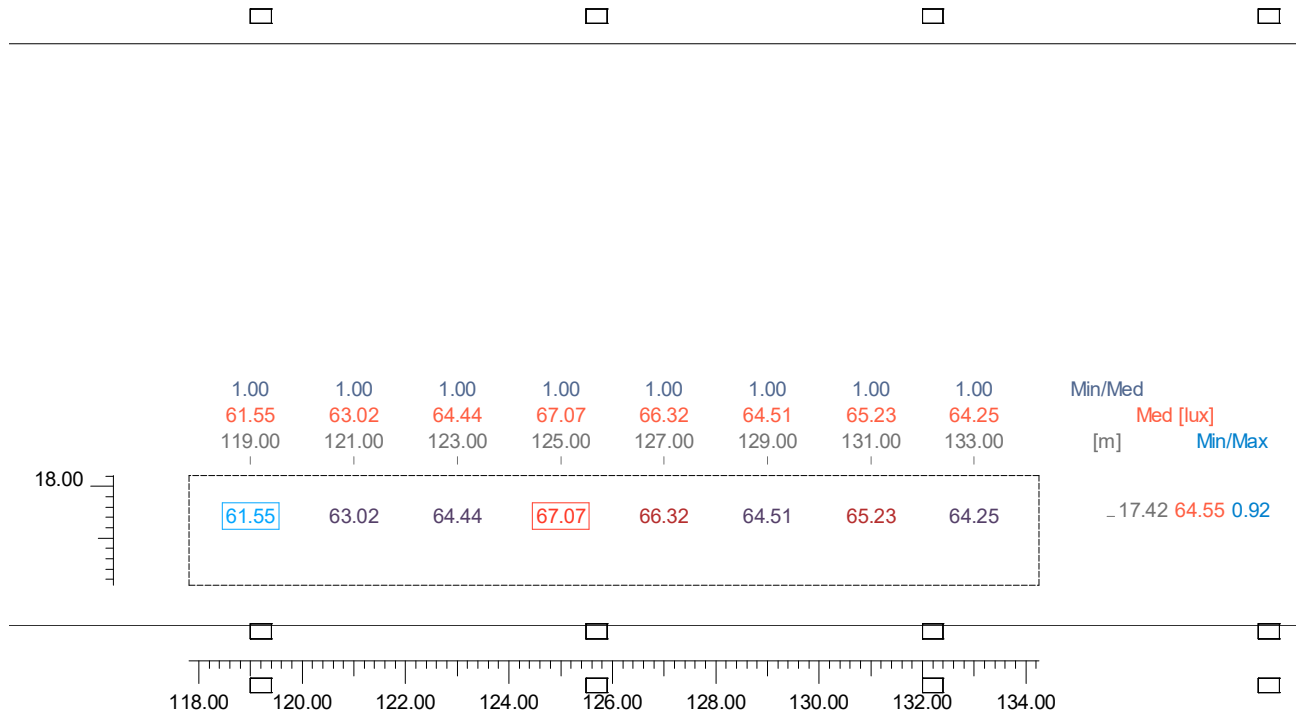


4.8 Valori di Illuminamento su: 5 - Autostrada A14 [UI,c1 (Autostrada, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	64.55 lx	61.55 lx	67.07 lx	0.95	0.92	0.96

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

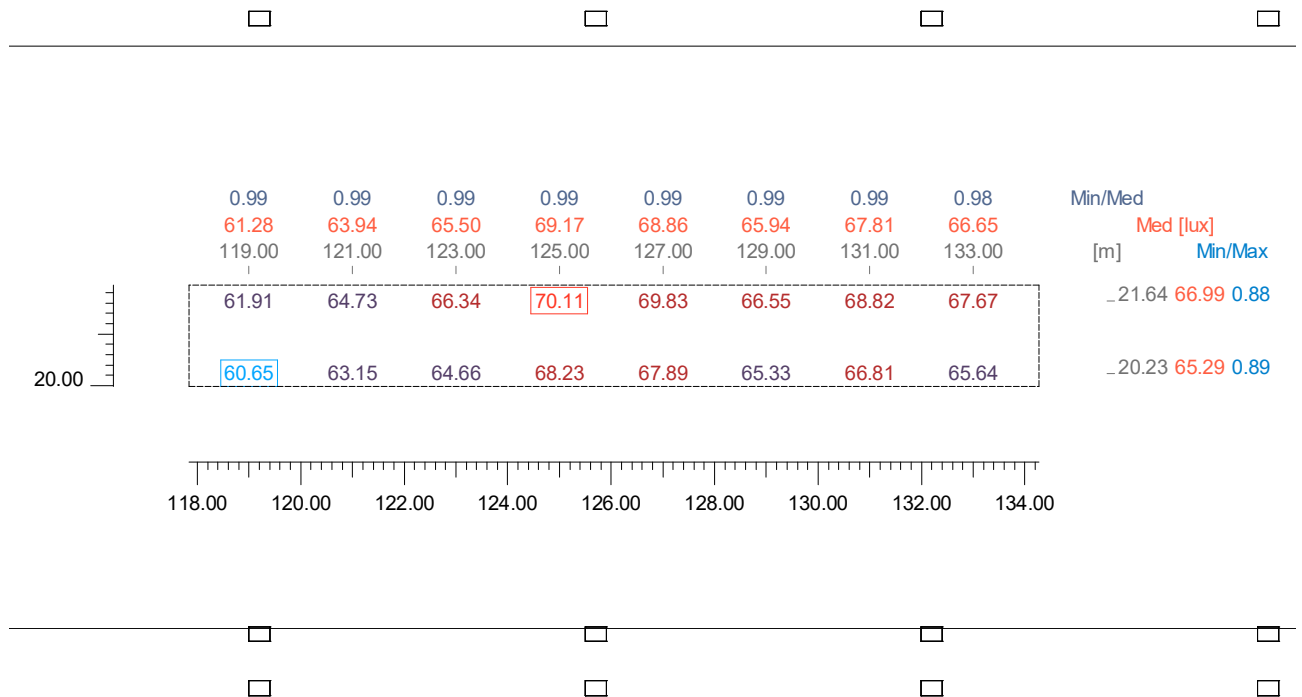


4.9 Valori di Illuminamento su: 5 - Autostrada A14 [UI,c2 (Autostrada, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	66.14 lx	60.65 lx	70.11 lx	0.92	0.87	0.94

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

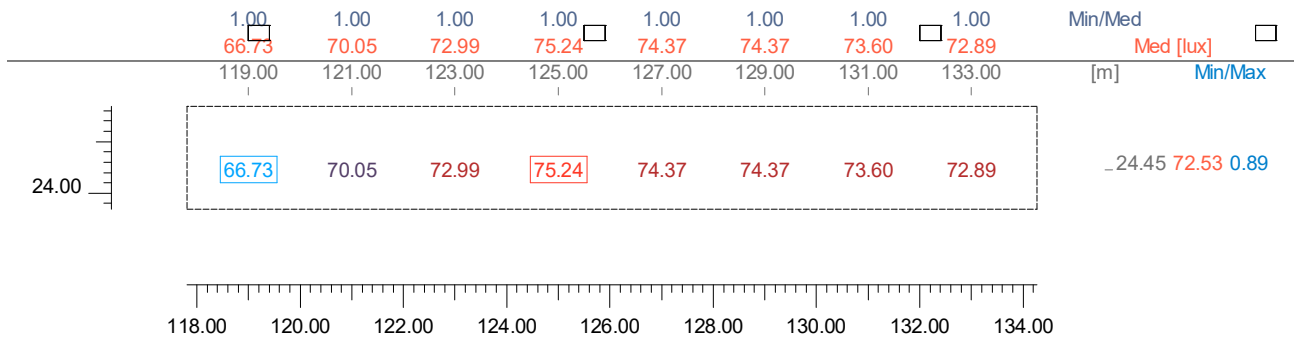


4.10 Valori di Illuminamento su: 5 - Autostrada A14 [UI,c3 (Autostrada, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	72.53 lx	66.73 lx	75.24 lx	0.92	0.89	0.96

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

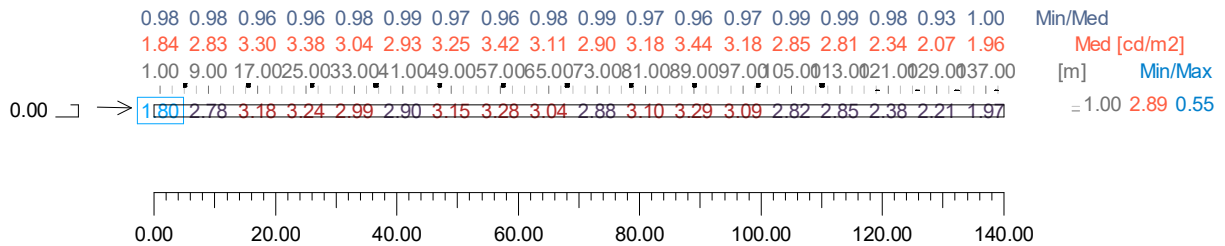


4.11 Valori delle Luminanze su: Parete Virtuale Sinistra - Oss. 2 (Lambert) [x=-60.00 y=5.31] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.96 cd/m ²	1.80 cd/m ²	3.59 cd/m ²	0.61	0.50	0.82

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

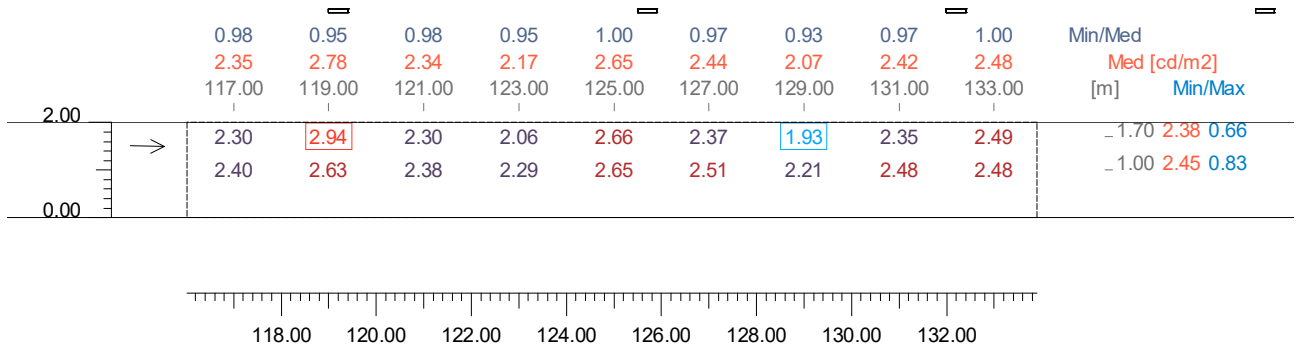


4.12 Valori delle Luminanze su: Parete Virtuale Sinistra [Lp,ps (Autostrada, Sezione 1) - [1]] - Oss. 2 (L

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.41 cd/m2	1.93 cd/m2	2.94 cd/m2	0.80	0.66	0.82

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

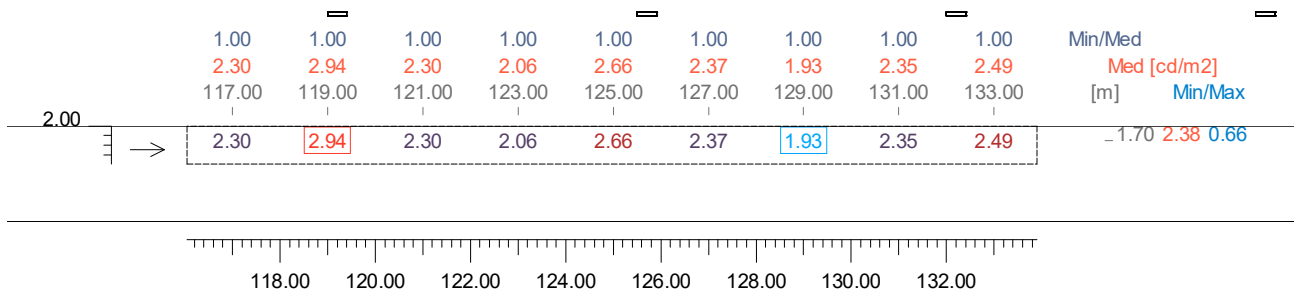


4.13 Valori delle Luminanze su: Parete Virtuale Sinistra [UI,ps (Autostrada - Sezione 1)] - Oss. 2 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.38 cd/m2	1.93 cd/m2	2.94 cd/m2	0.81	0.66	0.81

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

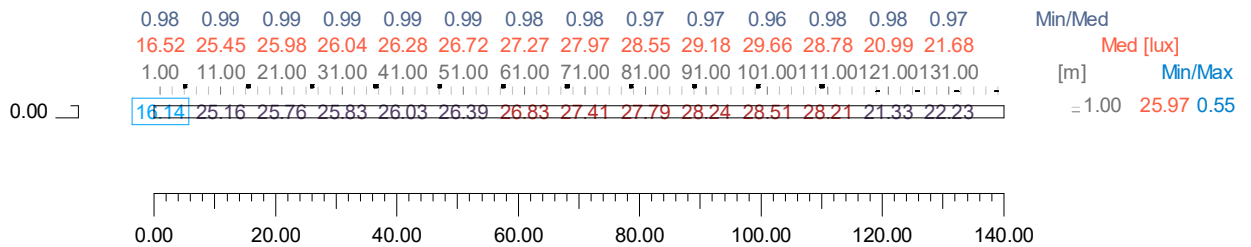


4.14 Valori di Illuminamento su: Parete Virtuale Sinistra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	26.54 lx	16.14 lx	32.20 lx	0.61	0.50	0.82

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



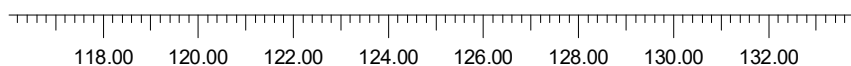
4.15 Valori di Illuminamento su: Parete Virtuale Sinistra [Lp,ps (Autostrada, Sezione 1) - [1]]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	21.64 lx	17.32 lx	26.35 lx	0.80	0.66	0.82

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	0.98	0.95	0.98	0.95	1.00	0.97	0.93	0.97	1.00	Min/Med	Med [lux]	Min/Max
	21.06	24.99	20.99	19.50	23.83	21.89	18.59	21.68	22.28			
	117.00	119.00	121.00	123.00	125.00	127.00	129.00	131.00	133.00	[m]		
2.00	20.60	26.35	20.64	18.50	23.83	21.28	17.32	21.14	22.33	- 1.70	21.33	0.66
0.00	21.51	23.63	21.33	20.51	23.82	22.50	19.86	22.23	22.23	- 1.00	21.96	0.83

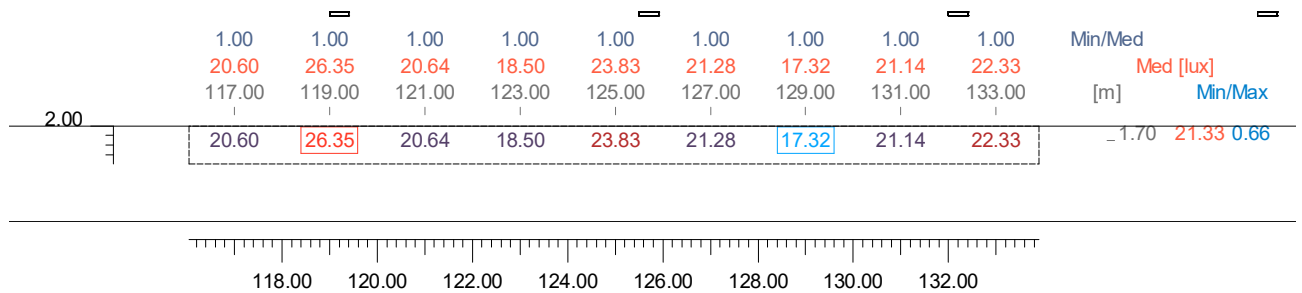


4.16 Valori di Illuminamento su: Parete Virtuale Sinistra [U,ps (Autostrada - Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	21.33 lx	17.32 lx	26.35 lx	0.81	0.66	0.81

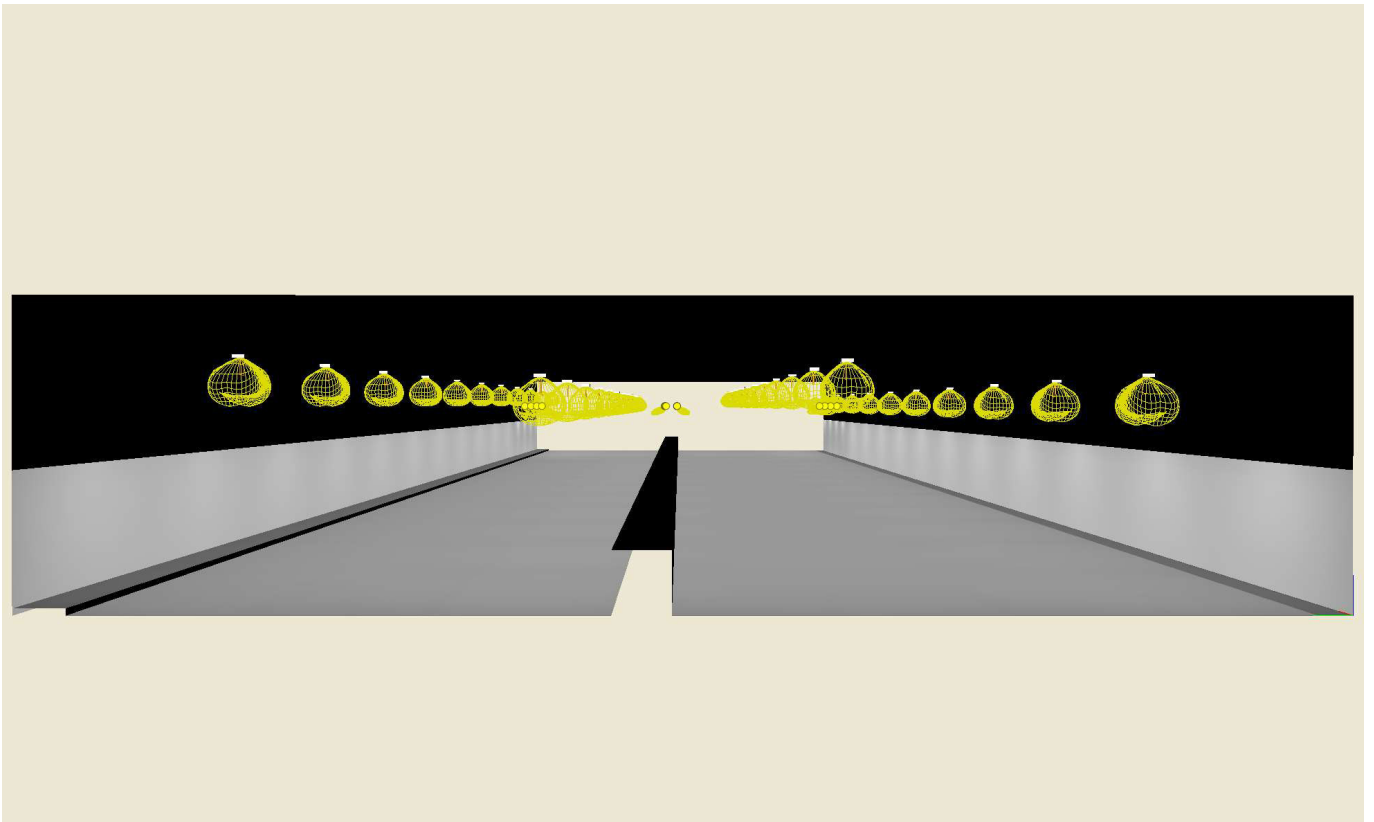
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

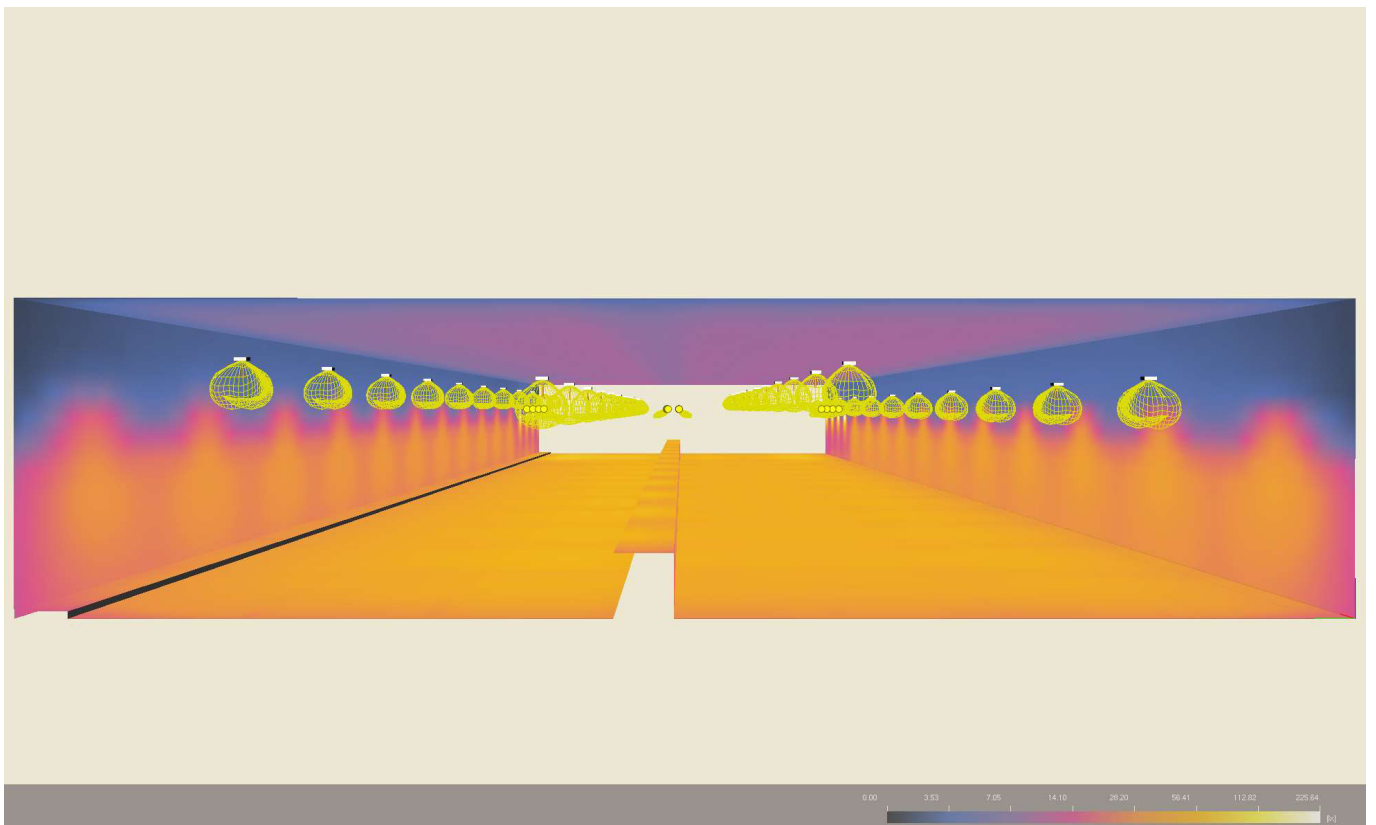


5. Immagini

5.1 Immagini



5.2 Immagini



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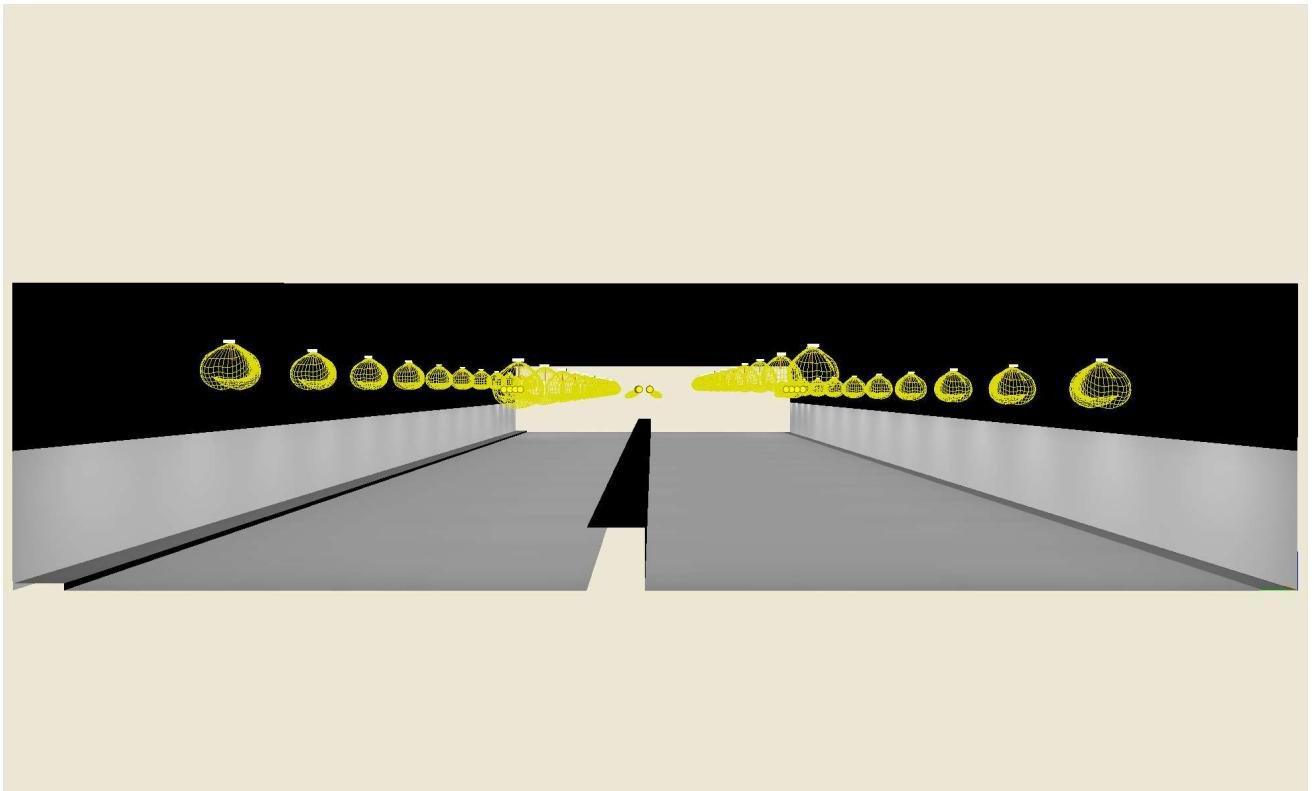
Galleria San Donnino

Note Installazione: Permanente - Tangenziale - Sezione 1 (DIR MI)
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 17/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria 6.61m
Fattore di manutenzione 80%
H. corpi illuminanti come da tabella sotto

Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

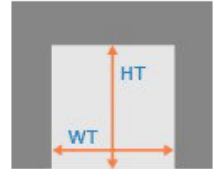
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

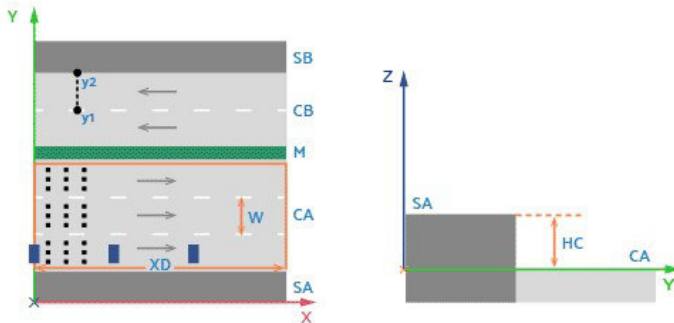
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice	Cubo (A)
Larghezza (WT)	27.66 m
Altezza (HT)	6.61 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%

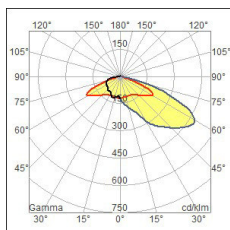


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Marciapiede	Pista Ciclo/Pedona	Marciapiede	--->	0.72	0.00	0.72	3	3	0.00		0.3000
2. Carreggiata	Carrabile	Corsia d'Emergenz	--->	2.84	0.72	3.56	3	3	0.00	C2	0.0560
3. Tangenziale	Carrabile			10.50	3.56	14.06	7		0.00	C2	0.0560
		3.1 Corsia 1	--->	3.50	3.56	7.06		3			
		3.2 Corsia 2	--->	3.50	7.06	10.56		3			
		3.3 Corsia 3	--->	3.50	10.56	14.06		3			
4. Mediana Centra	Secondaria	Mediana Centrale	--->	1.25	14.06	15.31	3	3	1.35		0.0000
5. Autostrada A14	Carrabile			11.25	15.31	26.56	8		0.00	C2	0.0560
		5.1 Corsia 1	--->	3.75	15.31	19.06		3			
		5.2 Corsia 2	--->	3.75	19.06	22.81		3			
		5.3 Corsia 3	--->	3.75	22.81	26.56		3			
6. Marciapiede B	Pista Ciclo/Pedona	Marciapiede	--->	1.10	26.56	27.66	3	3	0.15		0.3000

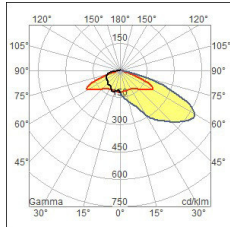


1.2 Informazioni Apparecchi/Rilievi

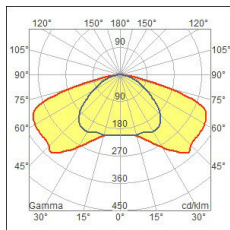
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8S 16D700_W201A (Radiant 8S 16D700_W201A)	Radiant 8S 16D700_W201A (Radiant 8S 16D700_W201A)	4770.00	0.80	100 %	255,255,255	8	Sorg-A	1



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coef. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	3101.00	0.80	100 %	255,255,255	8	Sorg-B	1



C	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	44	Sorg-C	1
---	---	--	---------	------	-------	-------------	----	--------	---

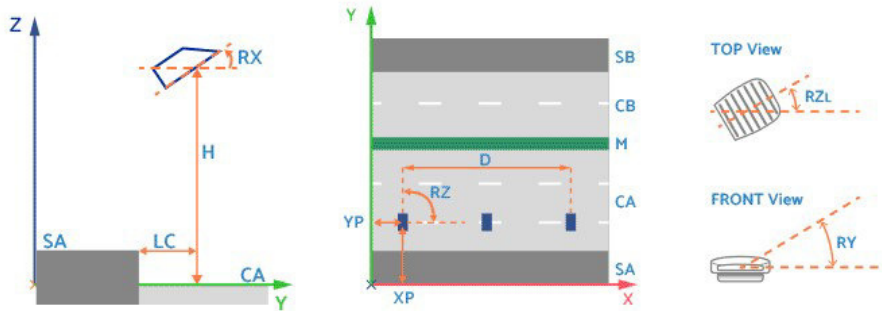


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		16D700 35W	16D700 35W	35.00	0.0000	4770	6000	8
Sorg-B		16D440 22W	16D440 22W	22.00	0.0000	3101	6000	8
Sorg-C		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	44

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altezz.App. [m] (H)	Num. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila B	C		5.00	3.00	5.00	11	10.50	0.00	105.00	0	0	-0
Fila B	C		5.00	10.00	5.35	11	10.50	0.00	105.00	0	0	-0
Fila B	C		5.00	17.15	5.00	11	10.50	0.00	105.00	0	0	-0
Fila B	C		5.00	24.15	5.45	11	10.50	0.00	105.00	0	0	-0
Row	A	Layer 0	119.20	0.50	4.31	4	6.50	0.00	19.50	0	0	0
Row	B	Layer 0	119.20	14.15	4.31	4	6.50	0.00	19.50	0	180	0
Row	B	Layer 0	119.20	15.20	4.31	4	6.50	0.00	19.50	0	0	0
Row	A	Layer 0	119.20	27.10	4.31	4	6.50	0.00	19.50	0	180	0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Marciapiede	Risultati	EAV = 36.7 lux	EMIN = 21.71 lux		
2 - Carreggiata	Risultati	LAV = 2.59 cd/m ²	Uo(L) = 0.50	UL = 0.49	fTI = 8 %
	Oss. 1) [x=-60.00 y=2.14] m	LAV = 2.59 cd/m ² *	Uo(L) = 0.50 *	UL = 0.49 *	fTI = 7.72 % *
	Oss.Ti [x=100.14 y=2.14] m	Lv = 0.26			
3 - Tangenziale	Risultati	LAV = 2.42 cd/m ²	Uo(L) = 0.56	UL = 0.47	fTI = 9 %
	Oss. 1) [x=-60.00 y=5.31] m	LAV = 2.42 cd/m ² *	Uo(L) = 0.56	UL = 0.63	
	Oss. 2) [x=-60.00 y=8.81] m	LAV = 2.44 cd/m ²	Uo(L) = 0.56	UL = 0.47 *	
	Oss. 3) [x=-60.00 y=12.31] m	LAV = 2.45 cd/m ²	Uo(L) = 0.56 *	UL = 0.54	
	Oss.Ti 1) [x=-5.86 y=5.31] m				fTI = 8.09 %
	Oss.Ti 2) [x=-5.86 y=8.81] m				fTI = 8.54 % *
	Oss.Ti 3) [x=-5.86 y=12.31] m				fTI = 7.88 %
	Lv = 0.28				
5 - Autostrada A14	Risultati	LAV = 2.51 cd/m ²	Uo(L) = 0.48	UL = 0.42	fTI = 10 %
	Oss. 1) [x=-60.00 y=17.18] m	LAV = 2.51 cd/m ² *	Uo(L) = 0.48 *	UL = 0.42 *	
	Oss. 2) [x=-60.00 y=20.93] m	LAV = 2.52 cd/m ²	Uo(L) = 0.53	UL = 0.64	
	Oss. 3) [x=-60.00 y=24.68] m	LAV = 2.52 cd/m ²	Uo(L) = 0.58	UL = 0.56	
	Oss.Ti 1) [x=-5.86 y=17.18] m				fTI = 9.79 % *
	Oss.Ti 2) [x=-5.86 y=20.93] m				fTI = 7.51 %
	Oss.Ti 3) [x=-5.86 y=24.68] m				fTI = 8.02 %
	Lv = 0.32				
6 - Marciapiede B	Risultati	EAV = 34.2 lux	EMIN = 18.79 lux		

Riepilogo Uniformità di Luminanza:

Sezione Permanente	[10.00..130.00] m	(Luminanza Costante)		
Parete Destra	LAV%,(pd/c,o1) = 126.8 %	LAV,pd=3.35 cd/m ²	Uo,pd=0.50	Ul,pd=0.39 (y=1.70 m)
Parete Sinistra	LAV%,(ps/c,o1) = 115.5 %	LAV,ps=3.05 cd/m ²	Uo,ps=0.63	Ul,ps=0.54 (y=1.70 m)
1 - Marciapiede	LAV%,(md/c,o1) = 134.5 %	LAV,md,o1=3.55 cd/m ²	Uo,md,o1=0.83	Ul,o1=0.77 (y=8.36 m)
2 - Carreggiata	---	LAV,c,o1=2.64 cd/m ²	Uo,c,o1=0.72	Ul,o1=0.67 (y=2.14 m)
3 - Tangenziale	---	LAV,c,o1=2.48 cd/m ²	Uo,c,o3=0.69	Ul,o2=0.60 (y=8.81 m)
---	Oss. 1) [x=-60.00 y=5.31] m	LAV,c,o1=2.48 cd/m ² *	Uo,c,o1=0.71	Ul,o1=0.75 (y=5.31 m)
---	Oss. 2) [x=-60.00 y=8.81] m	LAV,c,o2=2.50 cd/m ²	Uo,c,o2=0.71	Ul,o2=0.60 (y=8.81 m) *
---	Oss. 3) [x=-60.00 y=12.31] m	LAV,c,o3=2.51 cd/m ²	Uo,c,o3=0.69 *	Ul,o3=0.75 (y=12.31 m)
5 - Autostrada A14	---	LAV,c,o1=2.56 cd/m ²	Uo,c,o1=0.60	Ul,o3=0.56 (y=24.68 m)
---	Oss. 1) [x=-60.00 y=17.18] m	LAV,c,o1=2.56 cd/m ² *	Uo,c,o1=0.60 *	Ul,o1=0.58 (y=17.18 m)
---	Oss. 2) [x=-60.00 y=20.93] m	LAV,c,o2=2.56 cd/m ²	Uo,c,o2=0.65	Ul,o2=0.73 (y=20.93 m)
---	Oss. 3) [x=-60.00 y=24.68] m	LAV,c,o3=2.57 cd/m ²	Uo,c,o3=0.65	Ul,o3=0.56 (y=24.68 m)
6 - Marciapiede B	LAV%,(ms/c,o1) = 123.6 %	LAV,ms,o1=3.26 cd/m ²	Uo,ms,o1=0.85	Ul,o1=0.64 (y=27.11 m)

6 - Marciapiede B
pd: Parete Destra
md: Marciapiede Destro

$L_{Av\%,(ms/c,o1)} = 123.6 \%$
ps: Parete Sinistra
ms: Marciapiede Sinistro

$L_{Av,ms,o1} = 3.26 \text{ cd/m}^2$
c: Carreggiata
o: Osservatore

$U_{o,ms,o1} = 0.85$
cm: Corsie di Marcia

$U_{l,o1} = 0.64 \text{ (y=27.11 m)}$

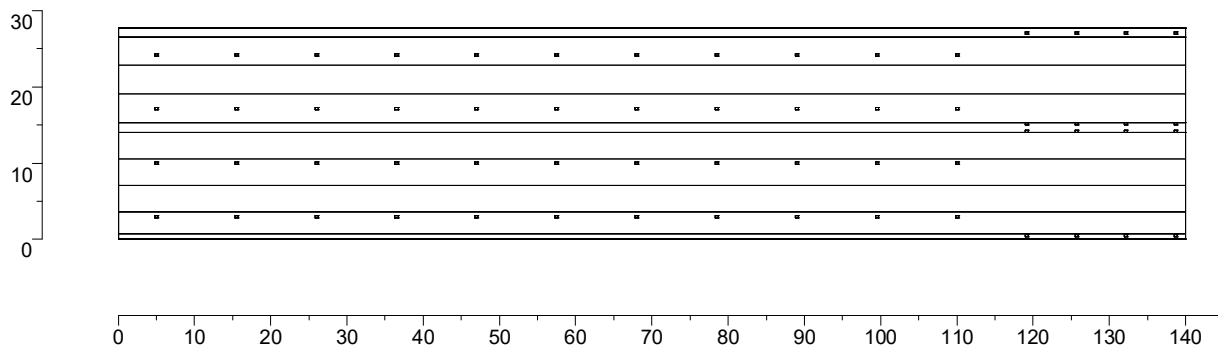
Inquinamento Luminoso

Rapporto Medio - R_n -

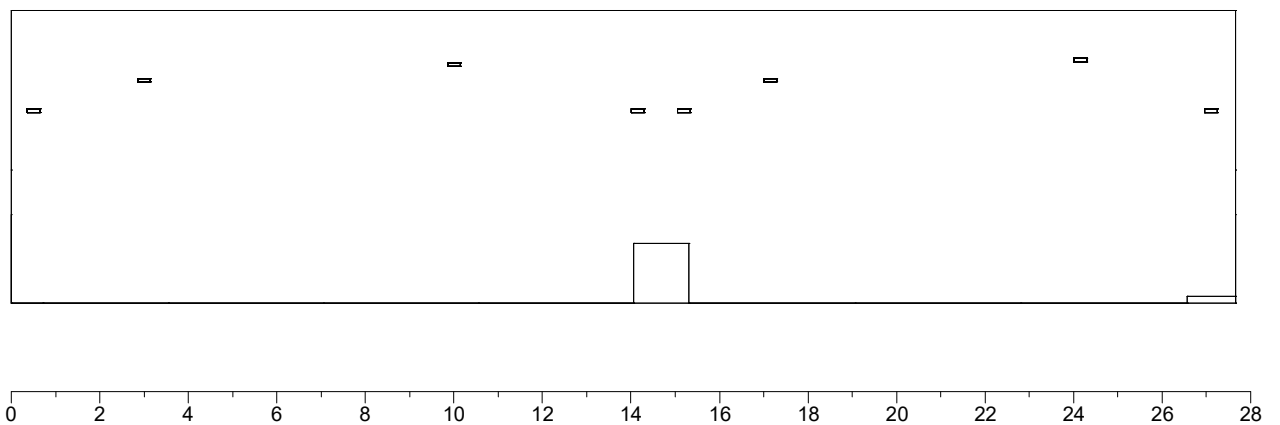
0.05 %

2. Viste Ambiente

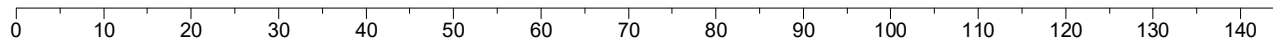
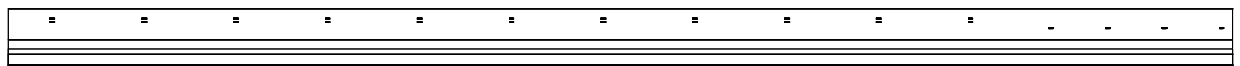
2.1 Vista 2D in Pianta



2.2 Vista Laterale

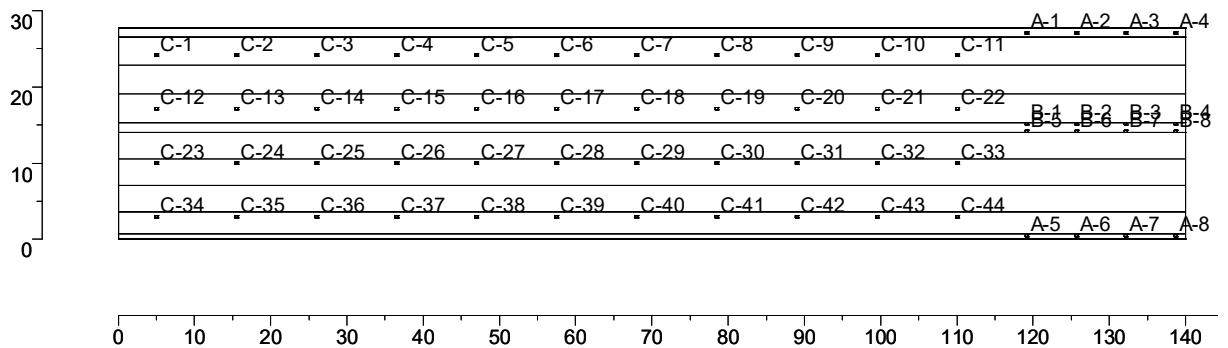


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	119.20	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-2	100 %	125.70	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-3	100 %	132.20	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-4	100 %	138.70	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-5	100 %	119.20	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
A-6	100 %	125.70	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
A-7	100 %	132.20	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
A-8	100 %	138.70	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
B-1	100 %	119.20	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-2	100 %	125.70	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-3	100 %	132.20	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-4	100 %	138.70	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-5	100 %	119.20	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-6	100 %	125.70	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-7	100 %	132.20	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-8	100 %	138.70	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
C-1	100 %	5.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-2	100 %	15.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-3	100 %	26.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-4	100 %	36.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-5	100 %	47.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-6	100 %	57.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-7	100 %	68.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-8	100 %	78.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-9	100 %	89.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-10	100 %	99.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-11	100 %	110.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-12	100 %	5.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-13	100 %	15.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-14	100 %	26.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-15	100 %	36.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-16	100 %	47.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-17	100 %	57.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-18	100 %	68.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-19	100 %	78.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-20	100 %	89.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-21	100 %	99.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-22	100 %	110.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-23	100 %	5.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-24	100 %	15.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-25	100 %	26.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-26	100 %	36.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-27	100 %	47.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-28	100 %	57.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-29	100 %	68.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-30	100 %	78.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-31	100 %	89.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-32	100 %	99.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-33	100 %	110.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-34	100 %	5.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-35	100 %	15.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-36	100 %	26.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-37	100 %	36.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-38	100 %	47.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-39	100 %	57.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-40	100 %	68.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-41	100 %	78.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-42	100 %	89.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-43	100 %	99.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-44	100 %	110.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8S 16D700_W201A	100 %	119.20	27.10	4.31	0.0	-0.0	180.0	119.20	27.10	0.00	0.0
A-2		Radiant 8S 16D700_W201A	100 %	125.70	27.10	4.31	0.0	-0.0	180.0	125.70	27.10	0.00	0.0
A-3		Radiant 8S 16D700_W201A	100 %	132.20	27.10	4.31	0.0	-0.0	180.0	132.20	27.10	0.00	0.0
A-4		Radiant 8S 16D700_W201A	100 %	138.70	27.10	4.31	0.0	-0.0	180.0	138.70	27.10	0.00	0.0
A-5		Radiant 8S 16D700_W201A	100 %	119.20	0.50	4.31	0.0	-0.0	0.0	119.20	0.50	0.00	0.0
A-6		Radiant 8S 16D700_W201A	100 %	125.70	0.50	4.31	0.0	-0.0	0.0	125.70	0.50	0.00	0.0
A-7		Radiant 8S 16D700_W201A	100 %	132.20	0.50	4.31	0.0	-0.0	0.0	132.20	0.50	0.00	0.0
A-8		Radiant 8S 16D700_W201A	100 %	138.70	0.50	4.31	0.0	-0.0	0.0	138.70	0.50	0.00	0.0
B-1		Radiant 8S 16D440_W201A	100 %	119.20	15.20	4.31	0.0	-0.0	0.0	119.20	15.20	0.00	0.0
B-2		Radiant 8S 16D440_W201A	100 %	125.70	15.20	4.31	0.0	-0.0	0.0	125.70	15.20	0.00	0.0
B-3		Radiant 8S 16D440_W201A	100 %	132.20	15.20	4.31	0.0	-0.0	0.0	132.20	15.20	0.00	0.0
B-4		Radiant 8S 16D440_W201A	100 %	138.70	15.20	4.31	0.0	-0.0	0.0	138.70	15.20	0.00	0.0
B-5		Radiant 8S 16D440_W201A	100 %	119.20	14.15	4.31	0.0	-0.0	180.0	119.20	14.15	0.00	0.0
B-6		Radiant 8S 16D440_W201A	100 %	125.70	14.15	4.31	0.0	-0.0	180.0	125.70	14.15	0.00	0.0
B-7		Radiant 8S 16D440_W201A	100 %	132.20	14.15	4.31	0.0	-0.0	180.0	132.20	14.15	0.00	0.0
B-8		Radiant 8S 16D440_W201A	100 %	138.70	14.15	4.31	0.0	-0.0	180.0	138.70	14.15	0.00	0.0
C-1		Radiant 8S 16D700_W244S	100 %	5.00	24.15	5.45	0.0	-0.0	0.0	5.00	24.15	0.00	0.0
C-2		Radiant 8S 16D700_W244S	100 %	15.50	24.15	5.45	0.0	-0.0	0.0	15.50	24.15	0.00	0.0
C-3		Radiant 8S 16D700_W244S	100 %	26.00	24.15	5.45	0.0	-0.0	0.0	26.00	24.15	0.00	0.0
C-4		Radiant 8S 16D700_W244S	100 %	36.50	24.15	5.45	0.0	-0.0	0.0	36.50	24.15	0.00	0.0
C-5		Radiant 8S 16D700_W244S	100 %	47.00	24.15	5.45	0.0	-0.0	0.0	47.00	24.15	0.00	0.0
C-6		Radiant 8S 16D700_W244S	100 %	57.50	24.15	5.45	0.0	-0.0	0.0	57.50	24.15	0.00	0.0
C-7		Radiant 8S 16D700_W244S	100 %	68.00	24.15	5.45	0.0	-0.0	0.0	68.00	24.15	0.00	0.0
C-8		Radiant 8S 16D700_W244S	100 %	78.50	24.15	5.45	0.0	-0.0	0.0	78.50	24.15	0.00	0.0
C-9		Radiant 8S 16D700_W244S	100 %	89.00	24.15	5.45	0.0	-0.0	0.0	89.00	24.15	0.00	0.0
C-10		Radiant 8S 16D700_W244S	100 %	99.50	24.15	5.45	0.0	-0.0	0.0	99.50	24.15	0.00	0.0
C-11		Radiant 8S 16D700_W244S	100 %	110.00	24.15	5.45	0.0	-0.0	0.0	110.00	24.15	0.00	0.0
C-12		Radiant 8S 16D700_W244S	100 %	5.00	17.15	5.00	0.0	-0.0	0.0	5.00	17.15	0.00	0.0
C-13		Radiant 8S 16D700_W244S	100 %	15.50	17.15	5.00	0.0	-0.0	0.0	15.50	17.15	0.00	0.0
C-14		Radiant 8S 16D700_W244S	100 %	26.00	17.15	5.00	0.0	-0.0	0.0	26.00	17.15	0.00	0.0
C-15		Radiant 8S 16D700_W244S	100 %	36.50	17.15	5.00	0.0	-0.0	0.0	36.50	17.15	0.00	0.0
C-16		Radiant 8S 16D700_W244S	100 %	47.00	17.15	5.00	0.0	-0.0	0.0	47.00	17.15	0.00	0.0
C-17		Radiant 8S 16D700_W244S	100 %	57.50	17.15	5.00	0.0	-0.0	0.0	57.50	17.15	0.00	0.0
C-18		Radiant 8S 16D700_W244S	100 %	68.00	17.15	5.00	0.0	-0.0	0.0	68.00	17.15	0.00	0.0
C-19		Radiant 8S 16D700_W244S	100 %	78.50	17.15	5.00	0.0	-0.0	0.0	78.50	17.15	0.00	0.0
C-20		Radiant 8S 16D700_W244S	100 %	89.00	17.15	5.00	0.0	-0.0	0.0	89.00	17.15	0.00	0.0
C-21		Radiant 8S 16D700_W244S	100 %	99.50	17.15	5.00	0.0	-0.0	0.0	99.50	17.15	0.00	0.0
C-22		Radiant 8S 16D700_W244S	100 %	110.00	17.15	5.00	0.0	-0.0	0.0	110.00	17.15	0.00	0.0
C-23		Radiant 8S 16D700_W244S	100 %	5.00	10.00	5.35	0.0	-0.0	0.0	5.00	10.00	0.00	0.0
C-24		Radiant 8S 16D700_W244S	100 %	15.50	10.00	5.35	0.0	-0.0	0.0	15.50	10.00	0.00	0.0
C-25		Radiant 8S 16D700_W244S	100 %	26.00	10.00	5.35	0.0	-0.0	0.0	26.00	10.00	0.00	0.0
C-26		Radiant 8S 16D700_W244S	100 %	36.50	10.00	5.35	0.0	-0.0	0.0	36.50	10.00	0.00	0.0
C-27		Radiant 8S 16D700_W244S	100 %	47.00	10.00	5.35	0.0	-0.0	0.0	47.00	10.00	0.00	0.0
C-28		Radiant 8S 16D700_W244S	100 %	57.50	10.00	5.35	0.0	-0.0	0.0	57.50	10.00	0.00	0.0
C-29		Radiant 8S 16D700_W244S	100 %	68.00	10.00	5.35	0.0	-0.0	0.0	68.00	10.00	0.00	0.0
C-30		Radiant 8S 16D700_W244S	100 %	78.50	10.00	5.35	0.0	-0.0	0.0	78.50	10.00	0.00	0.0
C-31		Radiant 8S 16D700_W244S	100 %	89.00	10.00	5.35	0.0	-0.0	0.0	89.00	10.00	0.00	0.0
C-32		Radiant 8S 16D700_W244S	100 %	99.50	10.00	5.35	0.0	-0.0	0.0	99.50	10.00	0.00	0.0
C-33		Radiant 8S 16D700_W244S	100 %	110.00	10.00	5.35	0.0	-0.0	0.0	110.00	10.00	0.00	0.0
C-34		Radiant 8S 16D700_W244S	100 %	5.00	3.00	5.00	0.0	-0.0	0.0	5.00	3.00	0.00	0.0
C-35		Radiant 8S 16D700_W244S	100 %	15.50	3.00	5.00	0.0	-0.0	0.0	15.50	3.00	0.00	0.0
C-36		Radiant 8S 16D700_W244S	100 %	26.00	3.00	5.00	0.0	-0.0	0.0	26.00	3.00	0.00	0.0
C-37		Radiant 8S 16D700_W244S	100 %	36.50	3.00	5.00	0.0	-0.0	0.0	36.50	3.00	0.00	0.0
C-38		Radiant 8S 16D700_W244S	100 %	47.00	3.00	5.00	0.0	-0.0	0.0	47.00	3.00	0.00	0.0
C-39		Radiant 8S 16D700_W244S	100 %	57.50	3.00	5.00	0.0	-0.0	0.0	57.50	3.00	0.00	0.0
C-40		Radiant 8S 16D700_W244S	100 %	68.00	3.00	5.00	0.0	-0.0	0.0	68.00	3.00	0.00	0.0
C-41		Radiant 8S 16D700_W244S	100 %	78.50	3.00	5.00	0.0	-0.0	0.0	78.50	3.00	0.00	0.0
C-42		Radiant 8S 16D700_W244S	100 %	89.00	3.00	5.00	0.0	-0.0	0.0	89.00	3.00	0.00	0.0
C-43		Radiant 8S 16D700_W244S	100 %	99.50	3.00	5.00	0.0	-0.0	0.0	99.50	3.00	0.00	0.0
C-44		Radiant 8S 16D700_W244S	100 %	110.00	3.00	5.00	0.0	-0.0	0.0	110.00	3.00	0.00	0.0

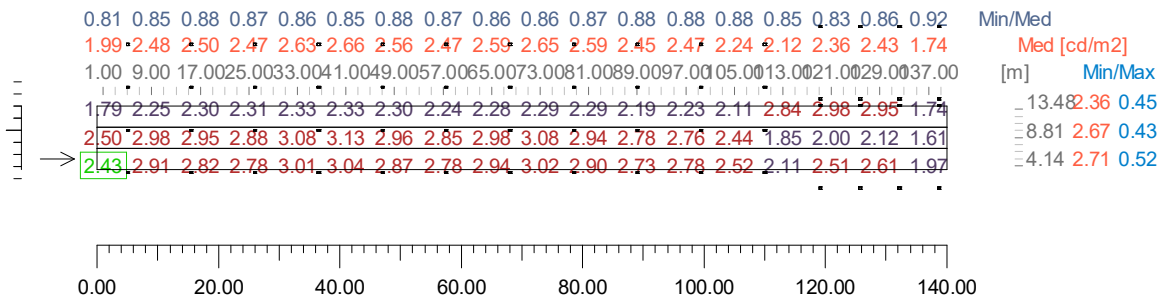
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 3 - Tangenziale - Oss. 1 [x=-60.00 y=5.31] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.42 cd/m2	1.37 cd/m2	3.26 cd/m2	0.56	0.42	0.74

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

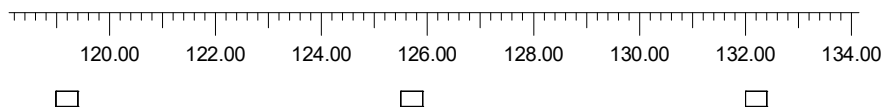
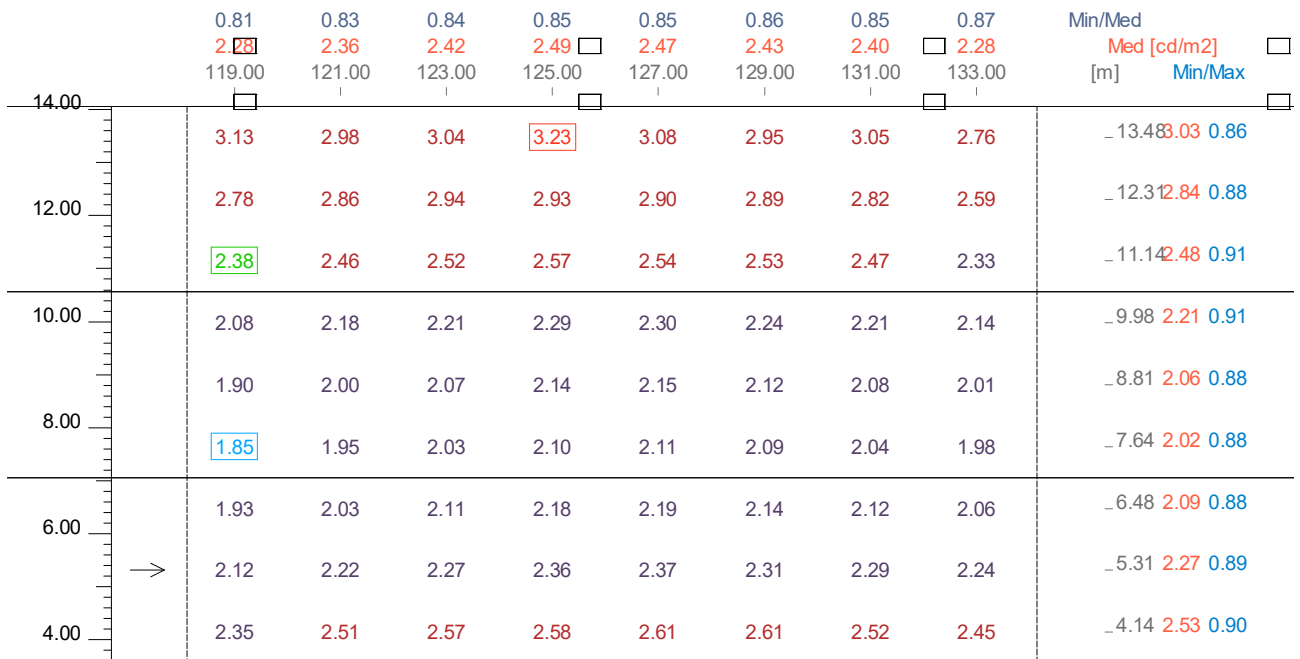


4.2 Valori delle Luminanze su: 3 - Tangenziale [Lp,c (Tangenziale, Sezione 1)] - Oss. 1 [x=-60.00 y=5.31

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.39 cd/m2	1.85 cd/m2	3.23 cd/m2	0.78	0.57	0.74

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

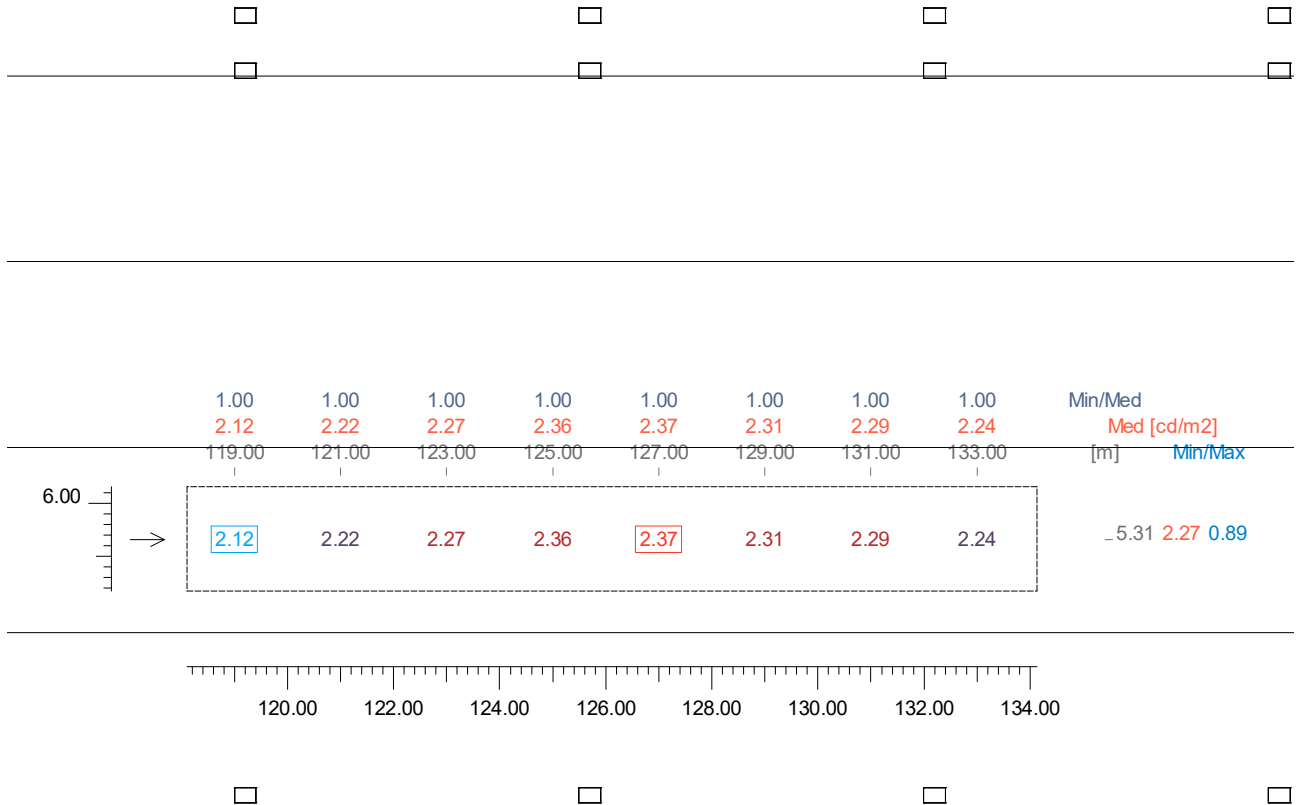


4.3 Valori delle Luminanze su: 3 - Tangenziale [UI,c1 (Tangenziale, Sezione 1)] - Oss. 1 [x=-60.00 y=5.31

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.27 cd/m2	2.12 cd/m2	2.37 cd/m2	0.93	0.89	0.96

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

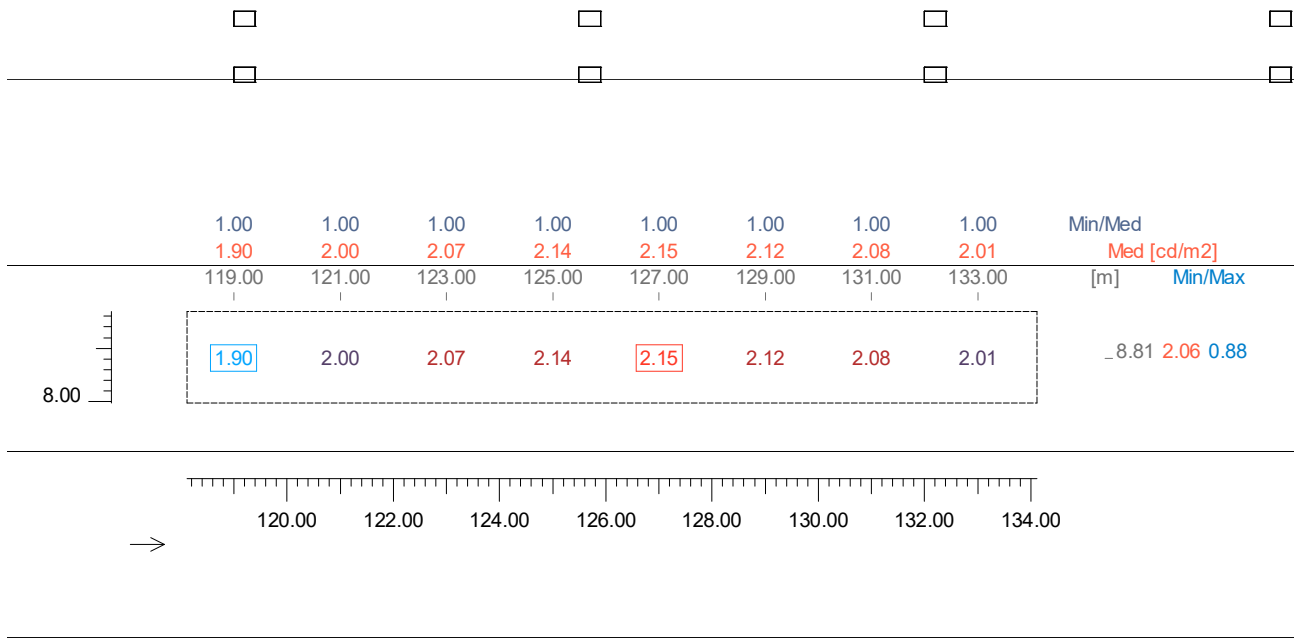


4.4 Valori delle Luminanze su: 3 - Tangenziale [UI,c2 (Tangeziale, Sezione 1)] - Oss. 1 [x=-60.00 y=5.31]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.06 cd/m2	1.90 cd/m2	2.15 cd/m2	0.92	0.88	0.96

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

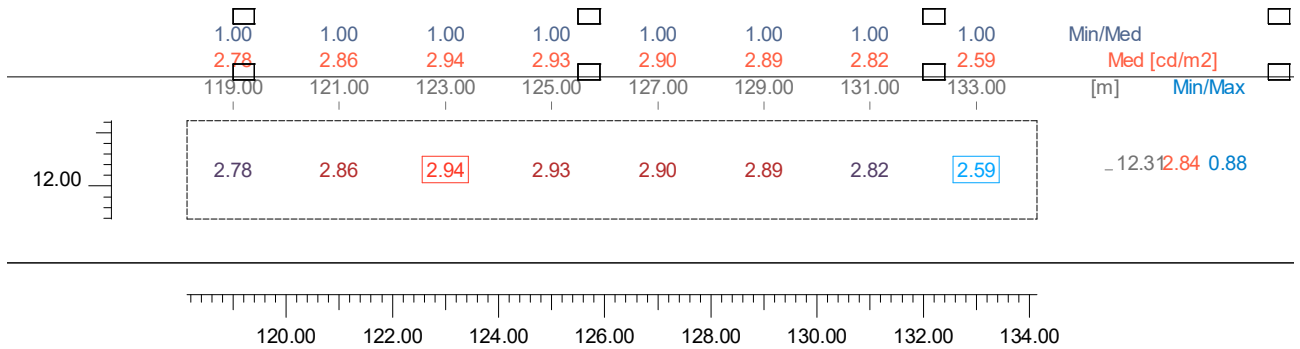


4.5 Valori delle Luminanze su: 3 - Tangenziale [UI,c3 (Tangenziale, Sezione 1)] - Oss. 1 [x=-60.00 y=5.31

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.84 cd/m ²	2.59 cd/m ²	2.94 cd/m ²	0.91	0.88	0.96

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)



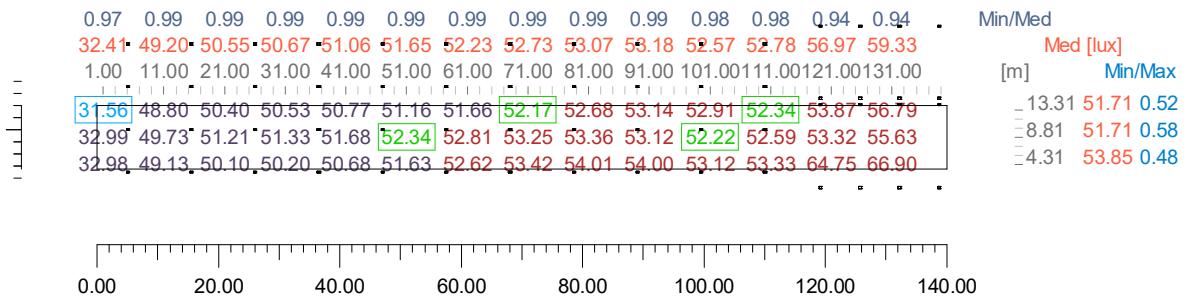
→

4.6 Valori di Illuminamento su: 3 - Tangenziale

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.22 lx	31.56 lx	68.01 lx	0.60	0.46	0.77

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

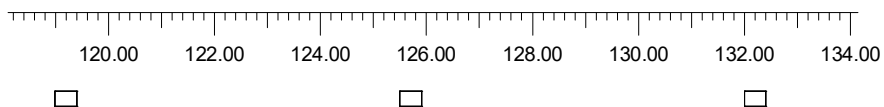
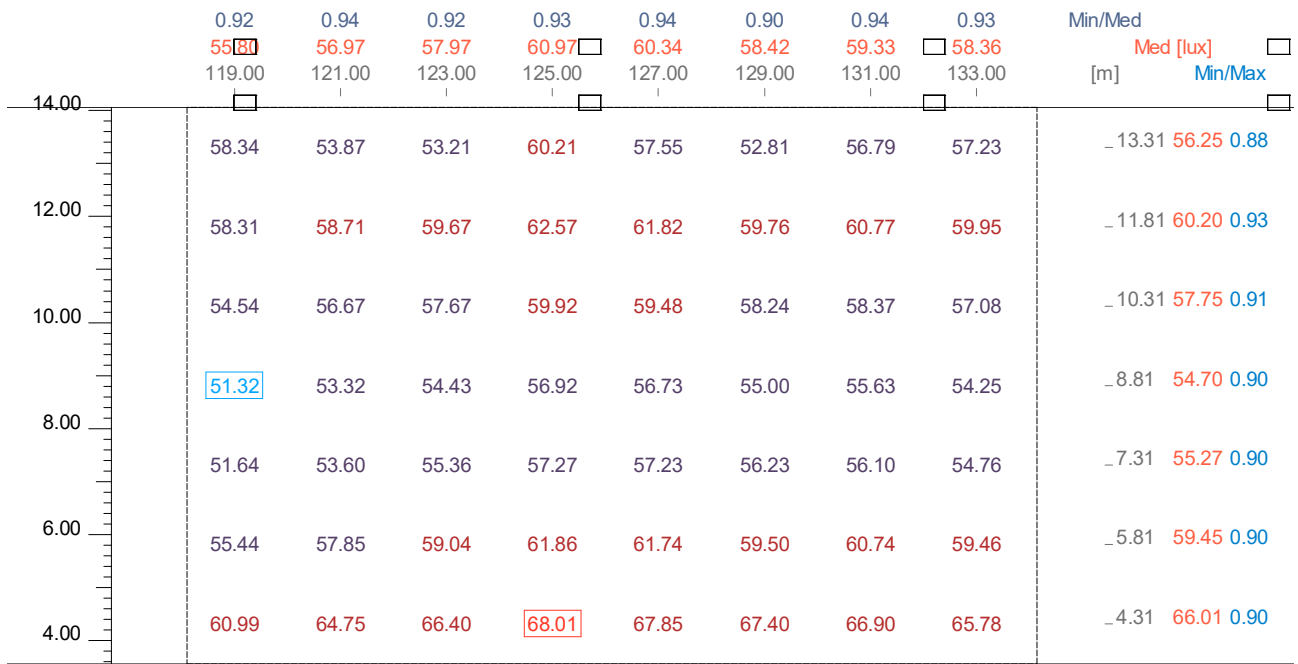


4.7 Valori di Illuminamento su: 3 - Tangenziale [Lp,c (Tangenziale, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	58.52 lx	51.32 lx	68.01 lx	0.88	0.75	0.86

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

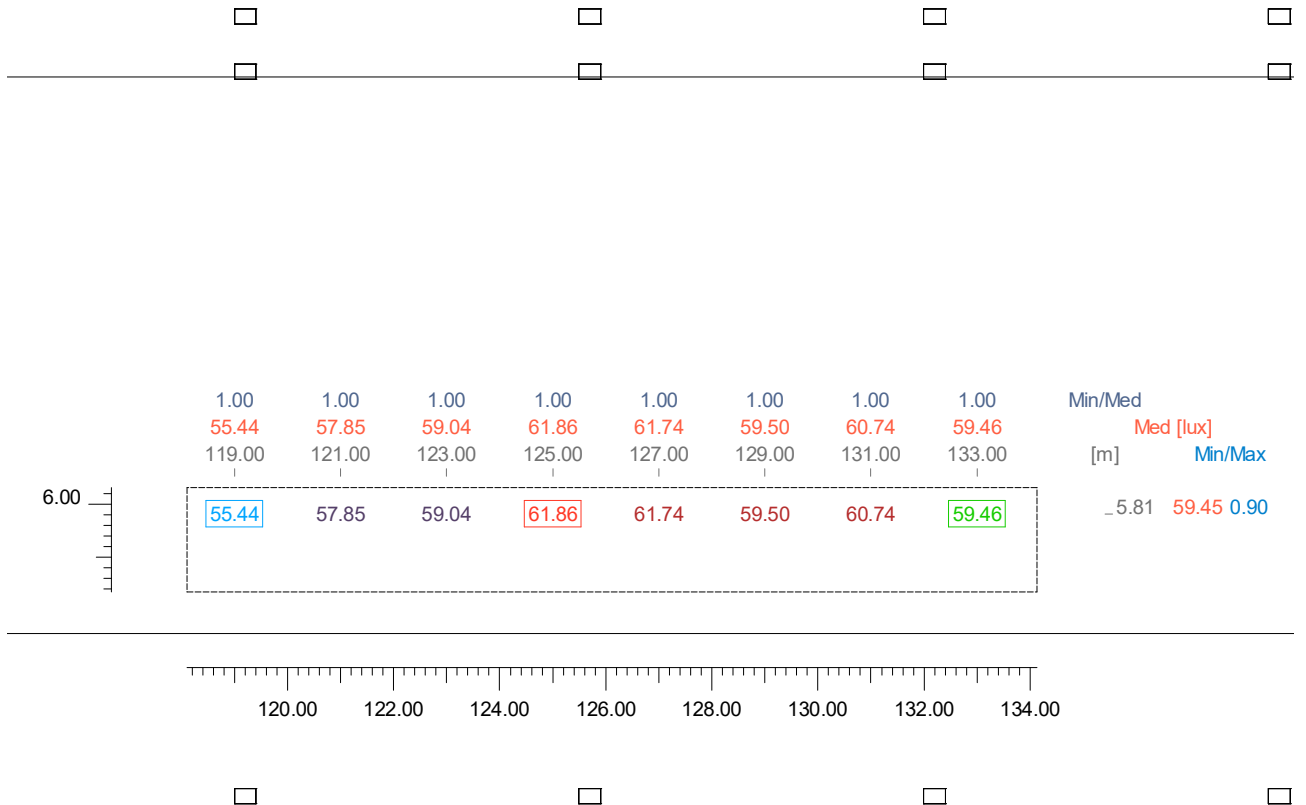


4.8 Valori di Illuminamento su: 3 - Tangenziale [U,c1 (Tangenziale, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	59.45 lx	55.44 lx	61.86 lx	0.93	0.90	0.96

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

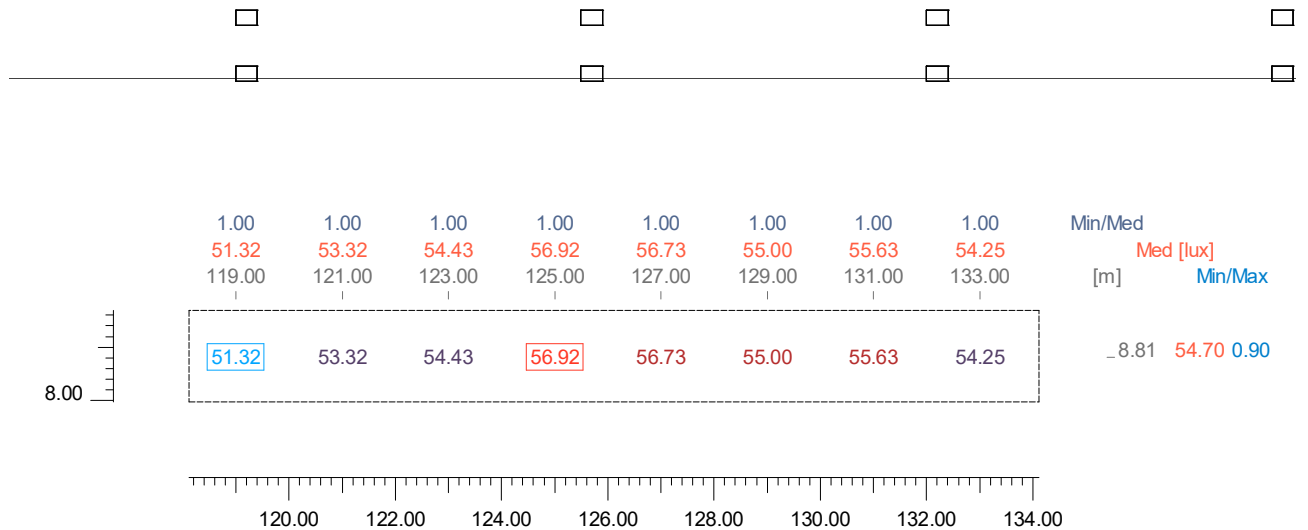


4.9 Valori di Illuminamento su: 3 - Tangenziale [U1,c2 (Tangeziale, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	54.70 lx	51.32 lx	56.92 lx	0.94	0.90	0.96

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

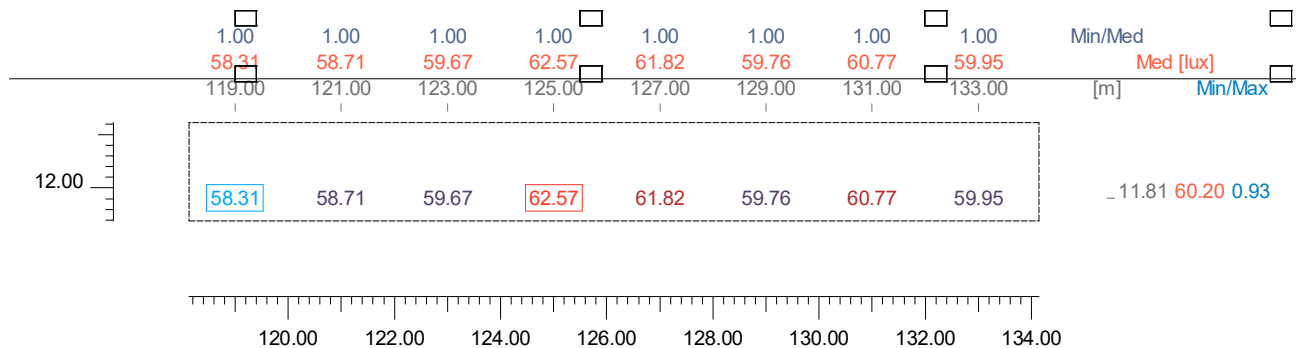


4.10 Valori di Illuminamento su: 3 - Tangenziale [UI,c3 (Tangenziale, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	60.20 lx	58.31 lx	62.57 lx	0.97	0.93	0.96

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

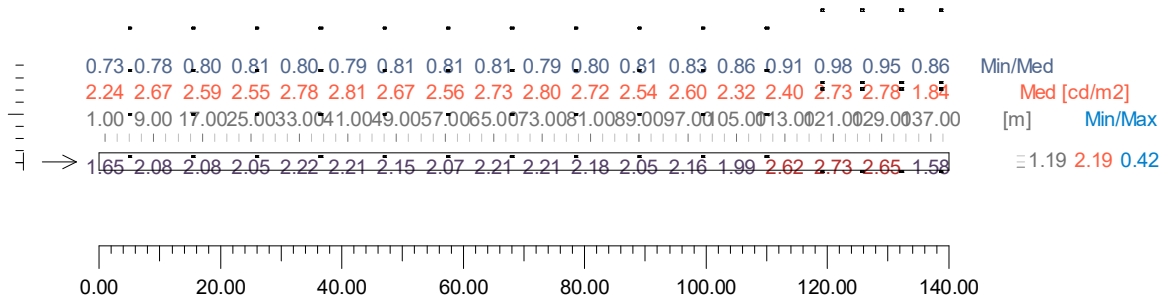


4.11 Valori delle Luminanze su: 2 - Carreggiata - Oss. 1 [x=-60.00 y=2.14] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.59 cd/m2	1.28 cd/m2	3.34 cd/m2	0.50	0.38	0.78

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

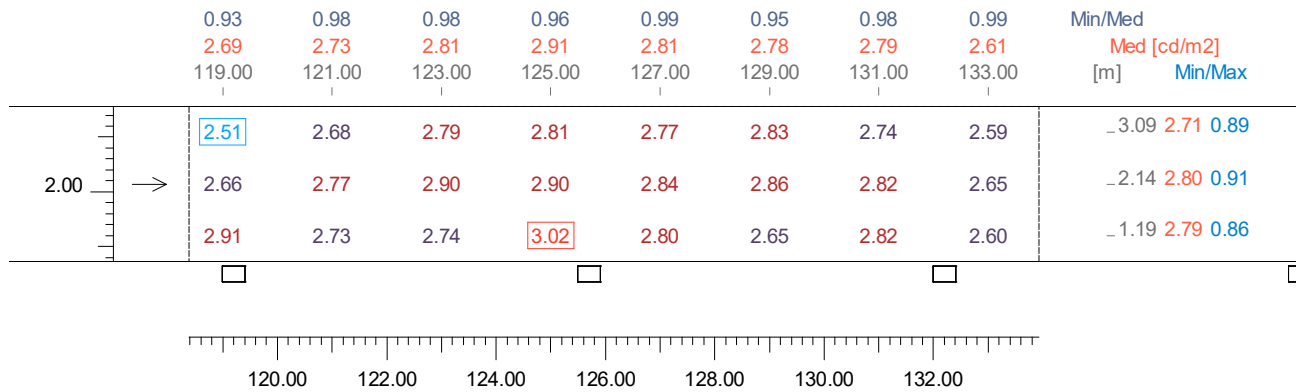


4.12 Valori delle Luminanze su: 2 - Carreggiata [Lp,cEM (Tangenziale, Sezione 1)] - Oss. 1 [x=-60.00 y=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.77 cd/m2	2.51 cd/m2	3.02 cd/m2	0.91	0.83	0.92

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

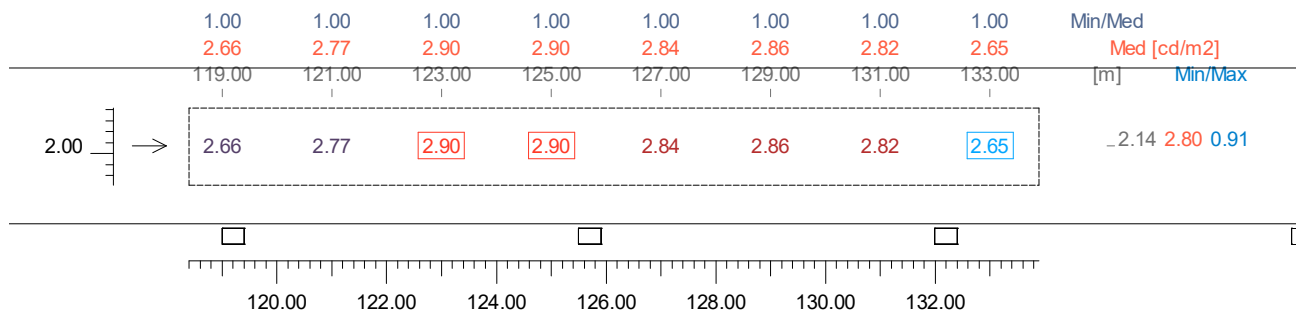


4.13 Valori delle Luminanze su: 2 - Carreggiata [UI,cEM (Tangenziale, Sezione 1)] - Oss. 1 [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.80 cd/m2	2.65 cd/m2	2.90 cd/m2	0.95	0.91	0.97

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

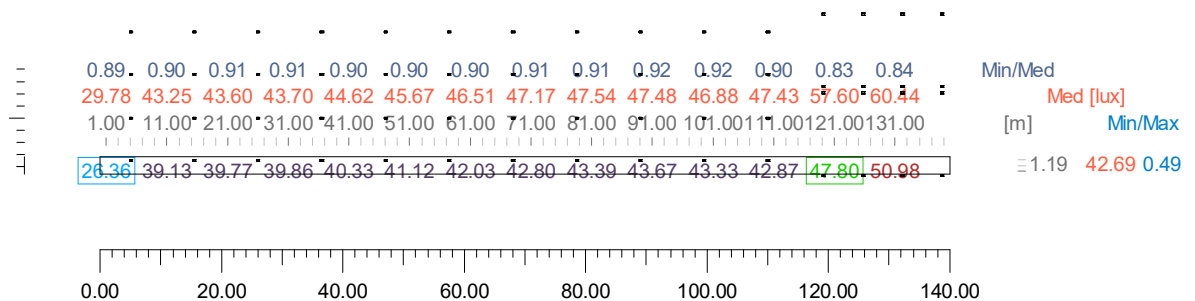


4.14 Valori di Illuminamento su: 2 - Carreggiata

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	47.72 lx	26.36 lx	70.22 lx	0.55	0.38	0.68

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

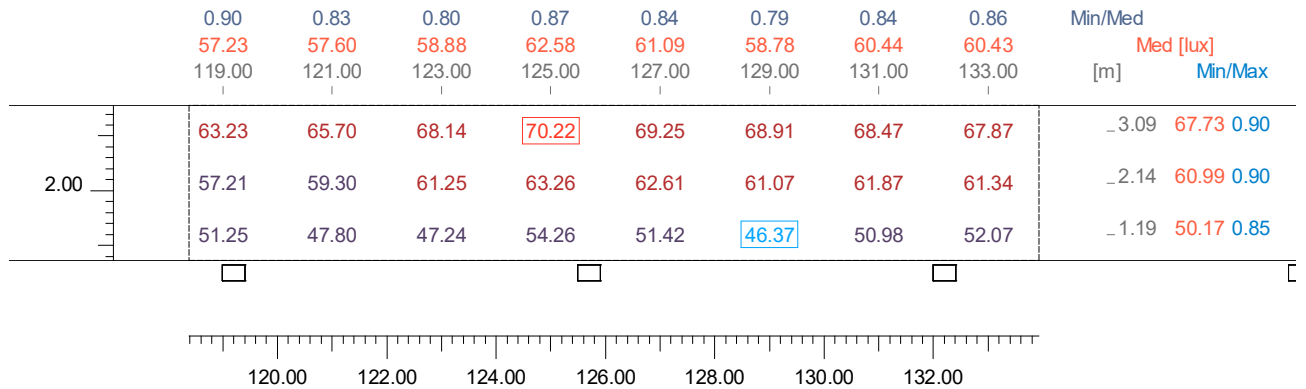


4.15 Valori di Illuminamento su: 2 - Carreggiata [Lp,cEM (Tangenziale, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	59.63 lx	46.37 lx	70.22 lx	0.78	0.66	0.85

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

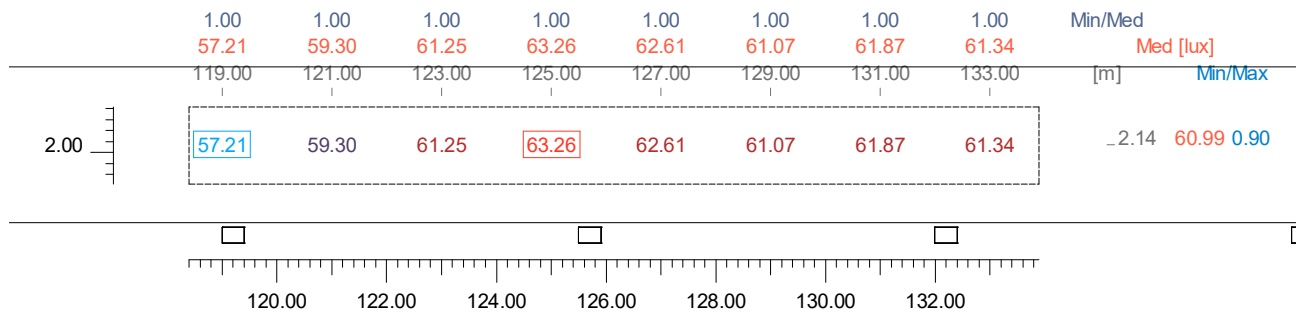


4.16 Valori di Illuminamento su: 2 - Carreggiata [UI,cEM (Tangenziale, Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	60.99 lx	57.21 lx	63.26 lx	0.94	0.90	0.96

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



4.17 Valori delle Luminanze su: Parete Virtuale Destra - Oss. 1 (Lambert) [x=-60.00 y=2.14] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.22 cd/m2	1.54 cd/m2	4.29 cd/m2	0.48	0.36	0.75

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

Min/Med	0.94	1.00	0.99	0.95	0.95	0.99	0.99	0.95	0.95	0.99	1.00	0.96	0.94	0.97	0.99	0.98	0.99	0.89		
Med [cd/m2]	3.05	3.07	3.32	3.93	3.84	3.22	3.22	3.84	3.94	3.33	3.14	3.72	4.00	3.39	2.35	1.81	1.99	1.74		
Min/Max [m]	137.00	29.00	21.00	13.00	05.00	07.00	08.00	9.00	8.00	1.00	73.00	65.00	57.00	49.00	41.00	33.00	25.00	17.00	9.00	1.00
0.40 3.12 1.00 =>	2.87	3.06	3.28	3.72	3.66	3.20	3.20	3.67	3.72	3.29	3.14	3.58	3.77	3.30	2.38	1.84	1.96	1.54		0.00



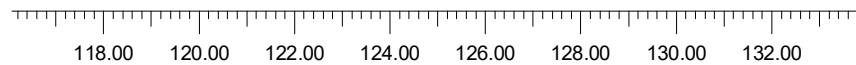
4.18 Valori delle Luminanze su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 1) - [1]] - Oss. 1 (L

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.03 cd/m2	1.66 cd/m2	2.58 cd/m2	0.82	0.65	0.79

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

	0.99	0.93	1.00	0.98	0.96	0.99	0.98	0.99	0.96
Min/Med	0.99	0.93	1.00	0.98	0.96	0.99	0.98	0.99	0.96
Med [cd/m2]	2.13	2.41	1.96	1.81	2.19	2.02	1.71	1.99	2.06
Min/Max [m]	23.00	21.00	19.00	17.00	15.00	13.00	11.00	9.00	7.00
0.65 2.06 1.70 →	2.10	2.58	1.95	1.77	2.27	2.04	1.66	2.02	2.15
0.78 2.00 1.00 →	2.16	2.24	1.96	1.84	2.11	1.99	1.75	1.96	1.97

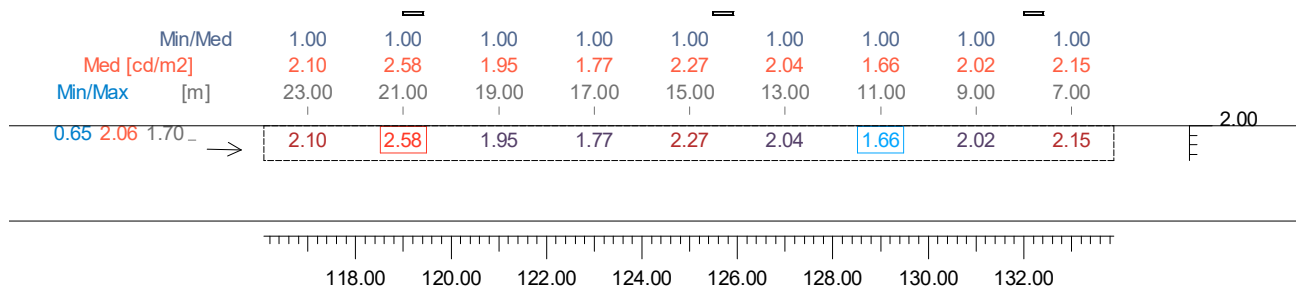


4.19 Valori delle Luminanze su: Parete Virtuale Destra [UI,pd (Tangenziale - Sezione 1)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.06 cd/m2	1.66 cd/m2	2.58 cd/m2	0.81	0.65	0.80

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

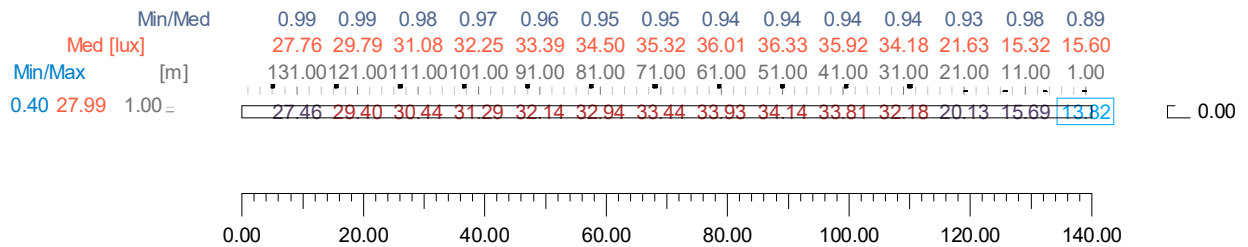


4.20 Valori di Illuminamento su: Parete Virtuale Destra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	28.87 lx	13.82 lx	38.51 lx	0.48	0.36	0.75

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



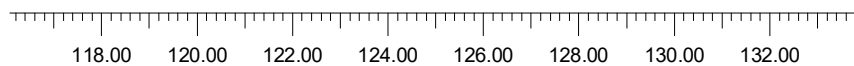
4.21 Valori di Illuminamento su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 1) - [1]]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	18.22 lx	14.94 lx	23.12 lx	0.82	0.65	0.79

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	Min/Med	0.99	0.93	1.00	0.98	0.96	0.99	0.98	0.99	0.96	
Med [lux]		19.14	21.63	17.55	16.21	19.68	18.09	15.32	17.88	18.50	
Min/Max [m]		23.00	21.00	19.00	17.00	15.00	13.00	11.00	9.00	7.00	
0.65 18.51 1.70 _		18.88	23.12	17.55	15.90	20.42	18.33	14.94	18.15	19.31	2.00
0.78 17.93 1.00 _		19.40	20.13	17.56	16.52	18.95	17.85	15.69	17.61	17.69	0.00

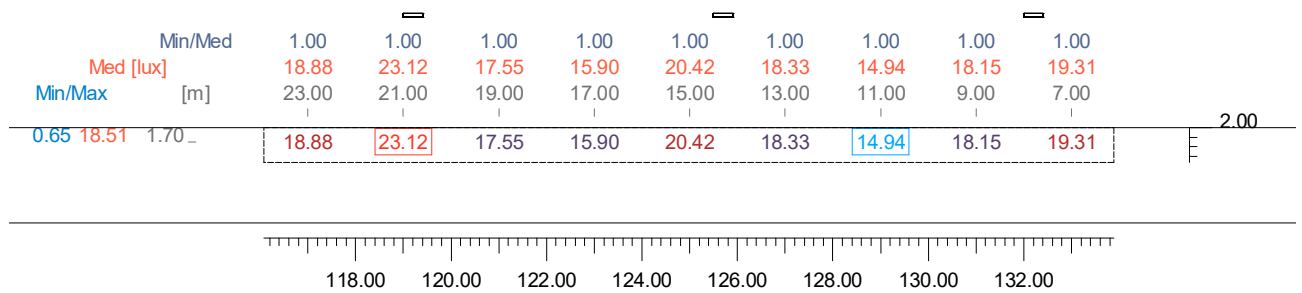


4.22 Valori di Illuminamento su: Parete Virtuale Destra [U, pd (Tangenziale - Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	18.51 lx	14.94 lx	23.12 lx	0.81	0.65	0.80

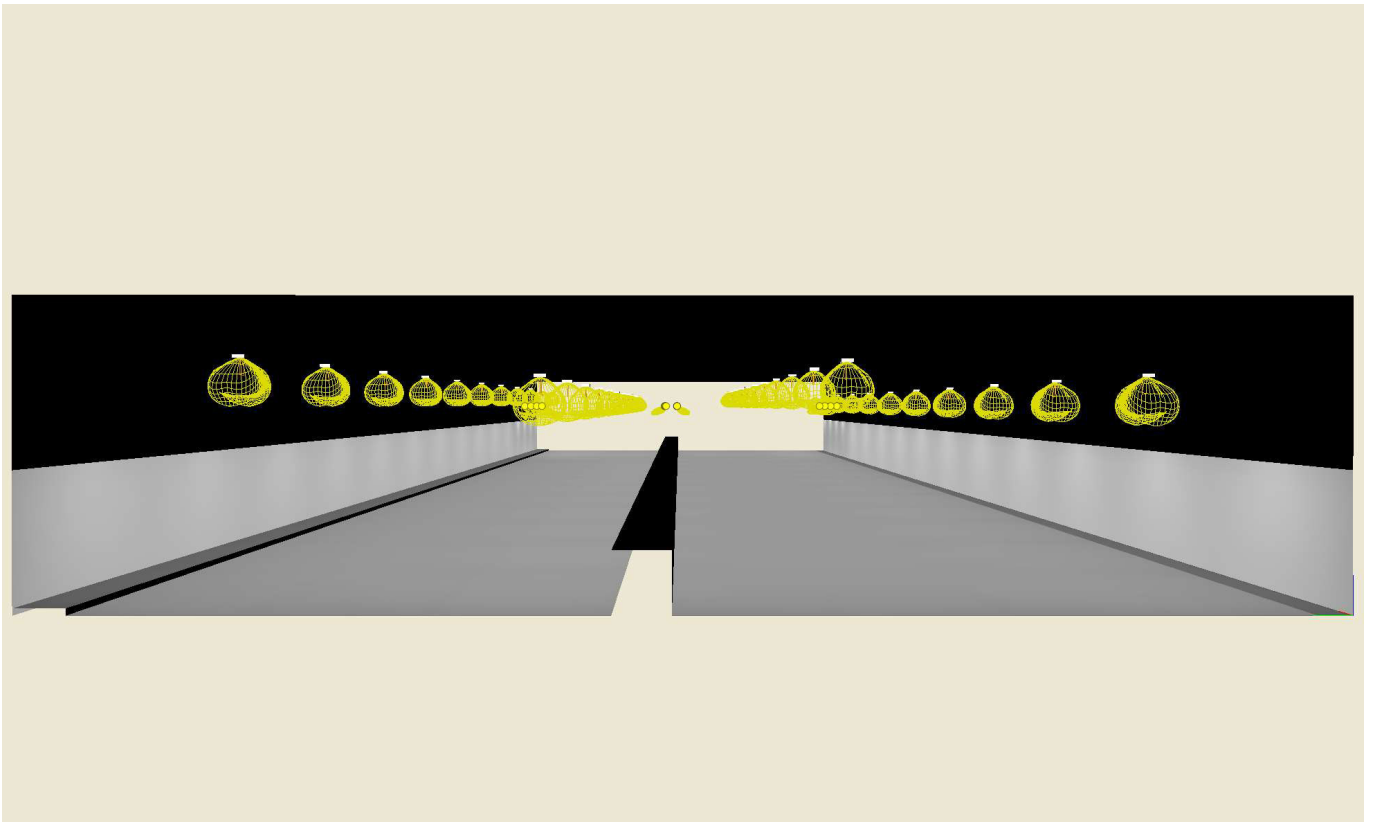
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



5. Immagini

5.1 Immagini



5.2 Immagini



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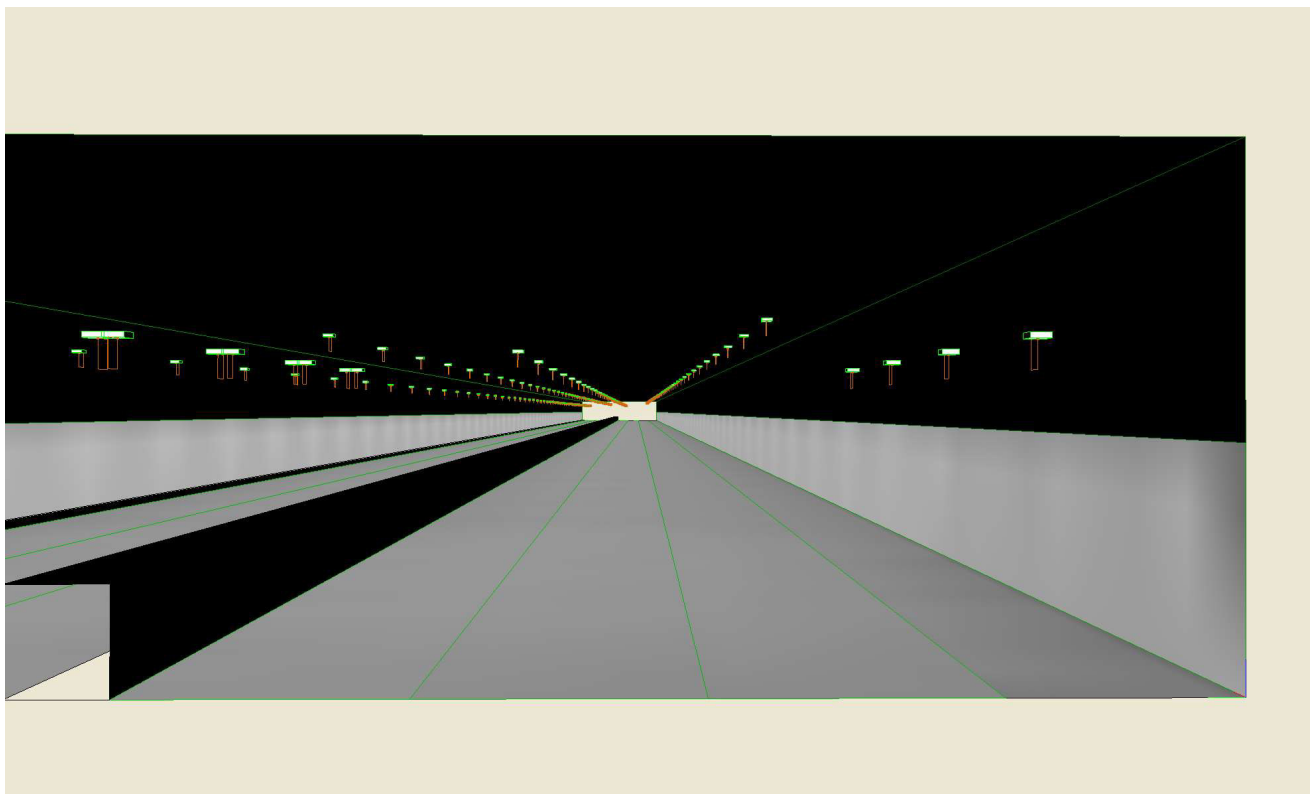
Galleria San Donnino

Note Installazione: Permanente - Tangenziale - Sezione 2
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 14/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria 6.61m
Fattore di manutenzione 80%
H. corpi illuminanti 5.9m e 5.00m

Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

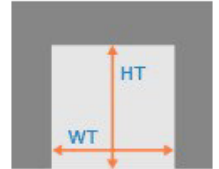
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

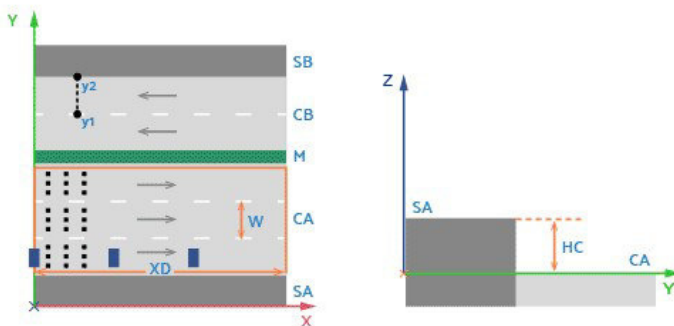
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice	Cubo (A)
Larghezza (WT)	25.81 m
Altezza (HT)	6.61 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%

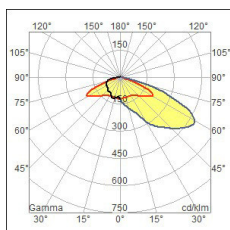


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Carreggiata	Carrabile	Corsia d'Emergenz	--->	2.84	0.00	2.84	3	3	0.00	C2	0.0560
2. Tangenziale	Carrabile			10.50	2.84	13.34	7		0.00	C2	0.0560
	2.1	Corsia 1	--->	3.50	2.84	6.34		3			
	2.2	Corsia 2	--->	3.50	6.34	9.84		3			
	2.3	Corsia 3	--->	3.50	9.84	13.34		3			
3. Mediana Centra	Secondaria	Mediana Centrale	--->	1.25	13.34	14.59	3	3	1.35		0.0000
4. Autostrada A14	Carrabile			10.50	14.59	25.09	7		0.00	C2	0.0560
	4.1	Corsia 1	--->	3.50	14.59	18.09		3			
	4.2	Corsia 2	--->	3.50	18.09	21.59		3			
	4.3	Corsia 3	--->	3.50	21.59	25.09		3			
5. Marciapiede B	Pista Ciclo/Pedona	Marciapiede	--->	0.72	25.09	25.81	3	3	0.15		0.3000

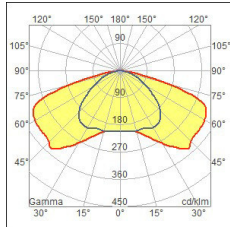


1.2 Informazioni Apparecchi/Rilievi

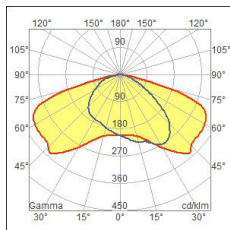
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	3101.00	0.80	100 %	255,255,255	16	Sorg-A	1



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coef. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	108	Sorg-B	1



C	Detas SpA Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	4452.00	0.80	100 %	255,255,255	108	Sorg-C	1
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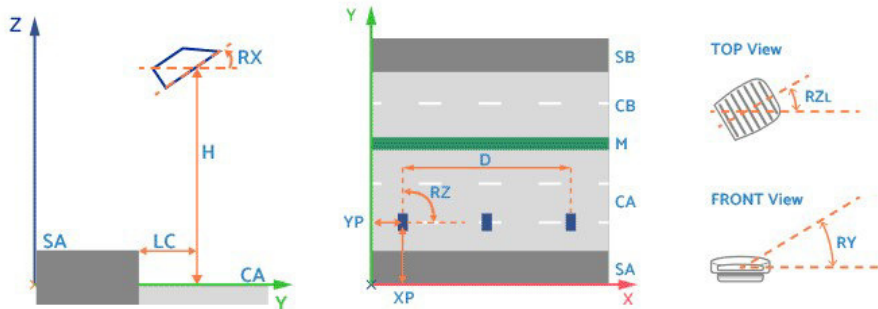


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		16D440 22W	16D440 22W	22.00	0.0000	3101	6000	16
Sorg-B		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	108
Sorg-C		16D600 30W	16D600 30W	30.00	0.0000	4452	6000	108

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altezz.App. [m] (H)	Num. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila A	A		2.00	2.00	4.31	4	6.50	0.00	19.50	0	0	0
Fila B	A		2.00	13.84	4.31	4	6.50	0.00	19.50	0	180	-0
Fila B	A		2.00	14.09	4.31	4	6.50	0.00	19.50	0	0	-0
Fila B	A		2.00	25.59	4.31	4	6.50	0.00	19.50	0	180	-0
Fila B	B		29.00	3.50	5.90	54	10.50	0.00	556.50	0	0	-0
Fila B	C		29.00	10.50	5.00	54	10.50	0.00	556.50	0	180	-0
Fila B	C		29.00	15.81	5.45	54	10.50	0.00	556.50	0	0	-0
Fila B	B		29.00	22.81	5.00	54	10.50	0.00	556.50	0	0	-0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Carreggiata	Risultati	LAV = 1.83 cd/m ²	Uo(L) = 0.33	UL = 0.36	fTI = 6 %
	Oss. 1) [x=-60.00 y=1.42] m Oss.Ti [x=90.27 y=1.42] m Lv = 0.18	LAV = 1.83 cd/m ² *	Uo(L) = 0.33 *	UL = 0.36 *	fTI = 5.63 % *
2 - Tangenziale	Risultati	LAV = 2.61 cd/m ²	Uo(L) = 0.33	UL = 0.31	fTI = 6 %
	Oss. 1) [x=-60.00 y=4.59] m	LAV = 2.62 cd/m ²	Uo(L) = 0.33 *	UL = 0.31 *	fTI = 5.60 % fTI = 6.16 % fTI = 6.20 % *
	Oss. 2) [x=-60.00 y=8.09] m	LAV = 2.62 cd/m ²	Uo(L) = 0.33	UL = 0.41	
	Oss. 3) [x=-60.00 y=11.59] m	LAV = 2.61 cd/m ² *	Uo(L) = 0.33	UL = 0.32	
	Oss.Ti 1) [x=90.27 y=4.59] m				
Oss.Ti 2) [x=40.27 y=8.09] m Oss.Ti 3) [x=40.27 y=11.59] m Lv = 0.25					
4 - Autostrada A14	Risultati	LAV = 2.61 cd/m ²	Uo(L) = 0.34	UL = 0.30	fTI = 8 %
	Oss. 1) [x=-60.00 y=16.34] m	LAV = 2.61 cd/m ² *	Uo(L) = 0.34	UL = 0.30 *	fTI = 6.78 % fTI = 6.16 % fTI = 7.73 % *
	Oss. 2) [x=-60.00 y=19.84] m	LAV = 2.63 cd/m ²	Uo(L) = 0.34	UL = 0.41	
	Oss. 3) [x=-60.00 y=23.34] m	LAV = 2.64 cd/m ²	Uo(L) = 0.34 *	UL = 0.30	
	Oss.Ti 1) [x=28.27 y=16.34] m				
Oss.Ti 2) [x=574.27 y=19.84] m Oss.Ti 3) [x=40.27 y=23.34] m Lv = 0.31					
5 - Marciapiede B	Risultati	EAV = 35.9 lux	EMIN = 22.22 lux		

Riepilogo Uniformità di Luminan.

Sezione Permanente	[10.00..580.00] m	(Luminanza Costante)			
Parete Destra	LAV%,(pd/c,o1) = 158.1 %	LAV,pd=2.92 cd/m ²	Uo,pd=0.66	Ul,pd=0.58 (y=1.70 m)	
Parete Sinistra	LAV%,(ps/c,o1) = 187.4 %	LAV,ps=3.46 cd/m ²	Uo,ps=0.40	Ul,ps=0.33 (y=1.70 m)	
1 - Carreggiata	-->	LAV,c,o1=1.85 cd/m ²	Uo,c,o1=0.60	Ul,o1=0.81 (y=1.42 m)	
2 - Tangenziale	-->	LAV,c,o3=2.64 cd/m ²	Uo,c,o2=0.75	Ul,o1=0.72 (y=4.59 m)	
-->	Oss. 1) [x=-60.00 y=4.59] m	LAV,c,o1=2.64 cd/m ²	Uo,c,o1=0.75	Ul,o1=0.72 (y=4.59 m) *	
-->	Oss. 2) [x=-60.00 y=8.09] m	LAV,c,o2=2.65 cd/m ²	Uo,c,o2=0.75 *	Ul,o2=0.77 (y=8.09 m)	
-->	Oss. 3) [x=-60.00 y=11.59] m	LAV,c,o3=2.64 cd/m ² *	Uo,c,o3=0.76	Ul,o3=0.73 (y=11.59 m)	
4 - Autostrada A14	-->	LAV,c,o1=2.63 cd/m ²	Uo,c,o1=0.64	Ul,o1=0.69 (y=16.34 m)	
-->	Oss. 1) [x=-60.00 y=16.34] m	LAV,c,o1=2.63 cd/m ² *	Uo,c,o1=0.64 *	Ul,o1=0.69 (y=16.34 m)	
-->	Oss. 2) [x=-60.00 y=19.84] m	LAV,c,o2=2.66 cd/m ²	Uo,c,o2=0.69	Ul,o2=0.81 (y=19.84 m)	
-->	Oss. 3) [x=-60.00 y=23.34] m	LAV,c,o3=2.67 cd/m ²	Uo,c,o3=0.74	Ul,o3=0.74 (y=23.34 m)	
5 - Marciapiede B	LAV%,(ms/c,o1) = 186.5 %	LAV,ms,o1=3.44 cd/m ²	Uo,ms,o1=0.78	Ul,o1=0.78 (y=25.45 m)	

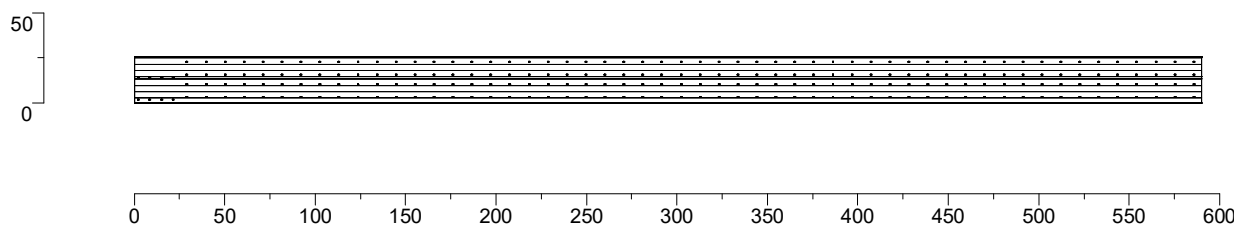
pd: Parete Destra ps: Parete Sinistra c: Carreggiata cm: Corsie di Marcia
md: Marciapiede Destro ms: Marciapiede Sinistro o: Osservatore

Inquinamento Luminoso

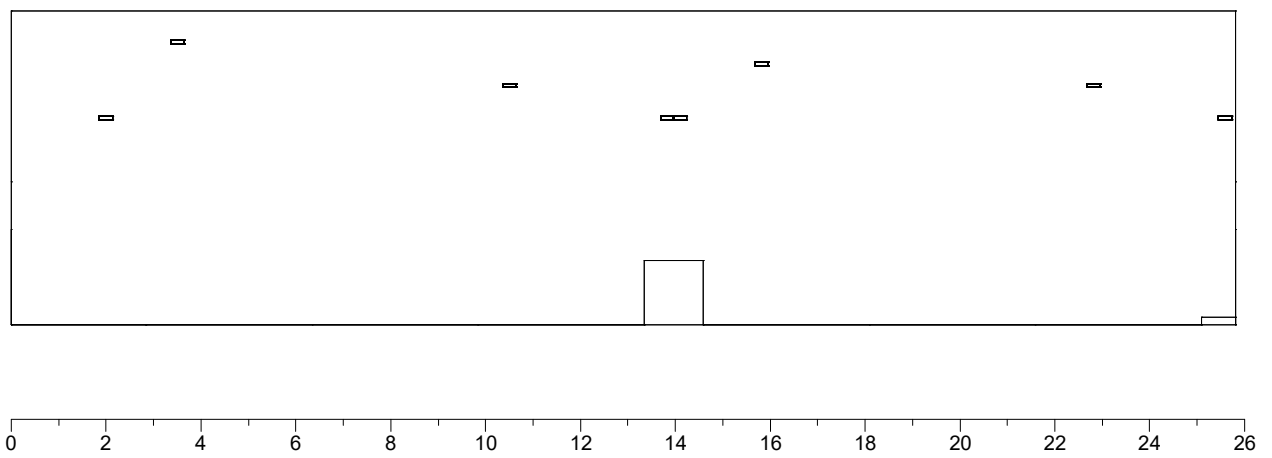
Rapporto Medio - Rn -
0.01 %

2. Viste Ambiente

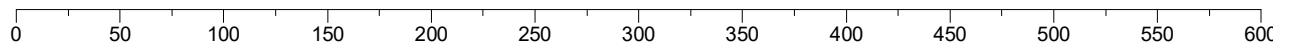
2.1 Vista 2D in Pianta



2.2 Vista Laterale

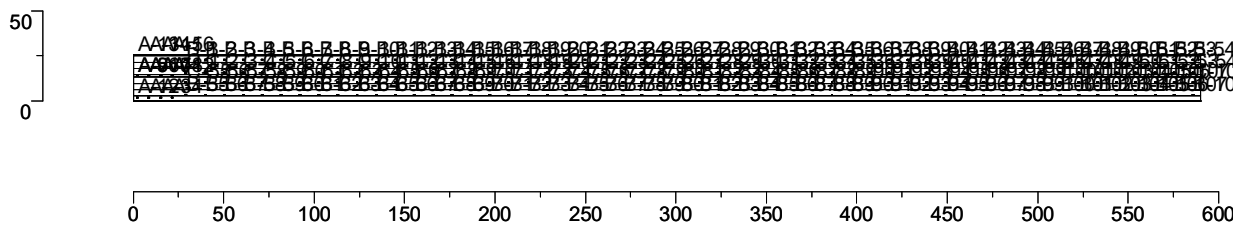


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	2.00	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-2	100 %	8.50	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-3	100 %	15.00	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-4	100 %	21.50	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-5	100 %	2.00	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-6	100 %	8.50	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-7	100 %	15.00	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-8	100 %	21.50	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-9	100 %	2.00	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-10	100 %	8.50	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-11	100 %	15.00	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-12	100 %	21.50	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-13	100 %	2.00	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-14	100 %	8.50	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-15	100 %	15.00	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-16	100 %	21.50	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-1	100 %	29.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-2	100 %	39.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-3	100 %	50.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-4	100 %	60.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-5	100 %	71.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-6	100 %	81.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-7	100 %	92.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-8	100 %	102.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-9	100 %	113.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-10	100 %	123.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-11	100 %	134.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-12	100 %	144.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-13	100 %	155.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-14	100 %	165.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-15	100 %	176.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-16	100 %	186.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-17	100 %	197.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-18	100 %	207.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-19	100 %	218.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-20	100 %	228.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-21	100 %	239.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-22	100 %	249.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-23	100 %	260.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-24	100 %	270.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-25	100 %	281.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-26	100 %	291.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-27	100 %	302.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-28	100 %	312.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-29	100 %	323.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-30	100 %	333.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-31	100 %	344.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-32	100 %	354.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-33	100 %	365.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-34	100 %	375.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-35	100 %	386.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-36	100 %	396.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-37	100 %	407.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-38	100 %	417.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-39	100 %	428.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-40	100 %	438.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-41	100 %	449.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-42	100 %	459.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-43	100 %	470.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-44	100 %	480.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-45	100 %	491.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-46	100 %	501.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-47	100 %	512.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-48	100 %	522.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-49	100 %	533.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-50	100 %	543.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-51	100 %	554.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
B-52	100 %	564.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-53	100 %	575.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-54	100 %	585.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-55	100 %	29.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-56	100 %	39.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-57	100 %	50.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-58	100 %	60.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-59	100 %	71.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-60	100 %	81.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-61	100 %	92.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-62	100 %	102.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-63	100 %	113.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-64	100 %	123.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-65	100 %	134.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-66	100 %	144.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-67	100 %	155.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-68	100 %	165.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-69	100 %	176.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-70	100 %	186.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-71	100 %	197.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-72	100 %	207.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-73	100 %	218.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-74	100 %	228.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-75	100 %	239.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-76	100 %	249.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-77	100 %	260.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-78	100 %	270.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-79	100 %	281.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-80	100 %	291.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-81	100 %	302.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-82	100 %	312.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-83	100 %	323.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-84	100 %	333.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-85	100 %	344.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-86	100 %	354.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-87	100 %	365.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-88	100 %	375.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-89	100 %	386.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-90	100 %	396.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-91	100 %	407.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-92	100 %	417.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-93	100 %	428.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-94	100 %	438.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-95	100 %	449.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-96	100 %	459.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-97	100 %	470.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-98	100 %	480.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-99	100 %	491.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-100	100 %	501.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-101	100 %	512.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-102	100 %	522.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-103	100 %	533.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-104	100 %	543.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-105	100 %	554.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-106	100 %	564.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-107	100 %	575.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-108	100 %	585.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-1	100 %	29.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-2	100 %	39.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-3	100 %	50.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-4	100 %	60.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-5	100 %	71.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-6	100 %	81.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-7	100 %	92.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-8	100 %	102.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-9	100 %	113.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-10	100 %	123.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-11	100 %	134.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-12	100 %	144.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-13	100 %	155.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
C-14	100 %	165.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-15	100 %	176.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-16	100 %	186.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-17	100 %	197.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-18	100 %	207.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-19	100 %	218.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-20	100 %	228.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-21	100 %	239.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-22	100 %	249.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-23	100 %	260.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-24	100 %	270.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-25	100 %	281.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-26	100 %	291.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-27	100 %	302.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-28	100 %	312.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-29	100 %	323.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-30	100 %	333.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-31	100 %	344.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-32	100 %	354.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-33	100 %	365.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-34	100 %	375.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-35	100 %	386.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-36	100 %	396.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-37	100 %	407.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-38	100 %	417.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-39	100 %	428.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-40	100 %	438.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-41	100 %	449.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-42	100 %	459.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-43	100 %	470.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-44	100 %	480.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-45	100 %	491.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-46	100 %	501.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-47	100 %	512.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-48	100 %	522.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-49	100 %	533.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-50	100 %	543.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-51	100 %	554.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-52	100 %	564.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-53	100 %	575.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-54	100 %	585.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-55	100 %	29.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-56	100 %	39.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-57	100 %	50.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-58	100 %	60.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-59	100 %	71.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-60	100 %	81.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-61	100 %	92.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-62	100 %	102.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-63	100 %	113.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-64	100 %	123.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-65	100 %	134.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-66	100 %	144.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-67	100 %	155.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-68	100 %	165.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-69	100 %	176.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-70	100 %	186.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-71	100 %	197.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-72	100 %	207.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-73	100 %	218.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-74	100 %	228.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-75	100 %	239.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-76	100 %	249.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-77	100 %	260.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-78	100 %	270.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-79	100 %	281.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-80	100 %	291.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-81	100 %	302.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-82	100 %	312.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-83	100 %	323.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
C-84	100 %	333.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-85	100 %	344.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-86	100 %	354.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-87	100 %	365.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-88	100 %	375.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-89	100 %	386.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-90	100 %	396.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-91	100 %	407.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-92	100 %	417.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-93	100 %	428.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-94	100 %	438.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-95	100 %	449.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-96	100 %	459.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-97	100 %	470.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-98	100 %	480.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-99	100 %	491.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-100	100 %	501.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-101	100 %	512.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-102	100 %	522.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-103	100 %	533.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-104	100 %	543.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-105	100 %	554.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-106	100 %	564.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-107	100 %	575.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-108	100 %	585.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8S 16D440_W201A	100 %	2.00	2.00	4.31	0.0	-0.0	0.0	2.00	2.00	0.00	0.0
A-2		Radiant 8S 16D440_W201A	100 %	8.50	2.00	4.31	0.0	-0.0	0.0	8.50	2.00	0.00	0.0
A-3		Radiant 8S 16D440_W201A	100 %	15.00	2.00	4.31	0.0	-0.0	0.0	15.00	2.00	0.00	0.0
A-4		Radiant 8S 16D440_W201A	100 %	21.50	2.00	4.31	0.0	-0.0	0.0	21.50	2.00	0.00	0.0
A-5		Radiant 8S 16D440_W201A	100 %	2.00	14.09	4.31	0.0	-0.0	0.0	2.00	14.09	0.00	0.0
A-6		Radiant 8S 16D440_W201A	100 %	8.50	14.09	4.31	0.0	-0.0	0.0	8.50	14.09	0.00	0.0
A-7		Radiant 8S 16D440_W201A	100 %	15.00	14.09	4.31	0.0	-0.0	0.0	15.00	14.09	0.00	0.0
A-8		Radiant 8S 16D440_W201A	100 %	21.50	14.09	4.31	0.0	-0.0	0.0	21.50	14.09	0.00	0.0
A-9		Radiant 8S 16D440_W201A	100 %	2.00	13.84	4.31	0.0	-0.0	180.0	2.00	13.84	0.00	0.0
A-10		Radiant 8S 16D440_W201A	100 %	8.50	13.84	4.31	0.0	-0.0	180.0	8.50	13.84	0.00	0.0
A-11		Radiant 8S 16D440_W201A	100 %	15.00	13.84	4.31	0.0	-0.0	180.0	15.00	13.84	0.00	0.0
A-12		Radiant 8S 16D440_W201A	100 %	21.50	13.84	4.31	0.0	-0.0	180.0	21.50	13.84	0.00	0.0
A-13		Radiant 8S 16D440_W201A	100 %	2.00	25.59	4.31	0.0	-0.0	180.0	2.00	25.59	0.00	0.0
A-14		Radiant 8S 16D440_W201A	100 %	8.50	25.59	4.31	0.0	-0.0	180.0	8.50	25.59	0.00	0.0
A-15		Radiant 8S 16D440_W201A	100 %	15.00	25.59	4.31	0.0	-0.0	180.0	15.00	25.59	0.00	0.0
A-16		Radiant 8S 16D440_W201A	100 %	21.50	25.59	4.31	0.0	-0.0	180.0	21.50	25.59	0.00	0.0
B-1		Radiant 8S 16D700_W244S	100 %	29.00	22.81	5.00	0.0	-0.0	0.0	29.00	22.81	0.00	0.0
B-2		Radiant 8S 16D700_W244S	100 %	39.50	22.81	5.00	0.0	-0.0	0.0	39.50	22.81	0.00	0.0
B-3		Radiant 8S 16D700_W244S	100 %	50.00	22.81	5.00	0.0	-0.0	0.0	50.00	22.81	0.00	0.0
B-4		Radiant 8S 16D700_W244S	100 %	60.50	22.81	5.00	0.0	-0.0	0.0	60.50	22.81	0.00	0.0
B-5		Radiant 8S 16D700_W244S	100 %	71.00	22.81	5.00	0.0	-0.0	0.0	71.00	22.81	0.00	0.0
B-6		Radiant 8S 16D700_W244S	100 %	81.50	22.81	5.00	0.0	-0.0	0.0	81.50	22.81	0.00	0.0
B-7		Radiant 8S 16D700_W244S	100 %	92.00	22.81	5.00	0.0	-0.0	0.0	92.00	22.81	0.00	0.0
B-8		Radiant 8S 16D700_W244S	100 %	102.50	22.81	5.00	0.0	-0.0	0.0	102.50	22.81	0.00	0.0
B-9		Radiant 8S 16D700_W244S	100 %	113.00	22.81	5.00	0.0	-0.0	0.0	113.00	22.81	0.00	0.0
B-10		Radiant 8S 16D700_W244S	100 %	123.50	22.81	5.00	0.0	-0.0	0.0	123.50	22.81	0.00	0.0
B-11		Radiant 8S 16D700_W244S	100 %	134.00	22.81	5.00	0.0	-0.0	0.0	134.00	22.81	0.00	0.0
B-12		Radiant 8S 16D700_W244S	100 %	144.50	22.81	5.00	0.0	-0.0	0.0	144.50	22.81	0.00	0.0
B-13		Radiant 8S 16D700_W244S	100 %	155.00	22.81	5.00	0.0	-0.0	0.0	155.00	22.81	0.00	0.0
B-14		Radiant 8S 16D700_W244S	100 %	165.50	22.81	5.00	0.0	-0.0	0.0	165.50	22.81	0.00	0.0
B-15		Radiant 8S 16D700_W244S	100 %	176.00	22.81	5.00	0.0	-0.0	0.0	176.00	22.81	0.00	0.0
B-16		Radiant 8S 16D700_W244S	100 %	186.50	22.81	5.00	0.0	-0.0	0.0	186.50	22.81	0.00	0.0
B-17		Radiant 8S 16D700_W244S	100 %	197.00	22.81	5.00	0.0	-0.0	0.0	197.00	22.81	0.00	0.0
B-18		Radiant 8S 16D700_W244S	100 %	207.50	22.81	5.00	0.0	-0.0	0.0	207.50	22.81	0.00	0.0
B-19		Radiant 8S 16D700_W244S	100 %	218.00	22.81	5.00	0.0	-0.0	0.0	218.00	22.81	0.00	0.0
B-20		Radiant 8S 16D700_W244S	100 %	228.50	22.81	5.00	0.0	-0.0	0.0	228.50	22.81	0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
B-21		Radiant 8S 16D700_W244S	100 %	239.00	22.81	5.00	0.0	-0.0	0.0	239.00	22.81	0.00	0.0
B-22		Radiant 8S 16D700_W244S	100 %	249.50	22.81	5.00	0.0	-0.0	0.0	249.50	22.81	0.00	0.0
B-23		Radiant 8S 16D700_W244S	100 %	260.00	22.81	5.00	0.0	-0.0	0.0	260.00	22.81	0.00	0.0
B-24		Radiant 8S 16D700_W244S	100 %	270.50	22.81	5.00	0.0	-0.0	0.0	270.50	22.81	0.00	0.0
B-25		Radiant 8S 16D700_W244S	100 %	281.00	22.81	5.00	0.0	-0.0	0.0	281.00	22.81	0.00	0.0
B-26		Radiant 8S 16D700_W244S	100 %	291.50	22.81	5.00	0.0	-0.0	0.0	291.50	22.81	0.00	0.0
B-27		Radiant 8S 16D700_W244S	100 %	302.00	22.81	5.00	0.0	-0.0	0.0	302.00	22.81	0.00	0.0
B-28		Radiant 8S 16D700_W244S	100 %	312.50	22.81	5.00	0.0	-0.0	0.0	312.50	22.81	0.00	0.0
B-29		Radiant 8S 16D700_W244S	100 %	323.00	22.81	5.00	0.0	-0.0	0.0	323.00	22.81	0.00	0.0
B-30		Radiant 8S 16D700_W244S	100 %	333.50	22.81	5.00	0.0	-0.0	0.0	333.50	22.81	0.00	0.0
B-31		Radiant 8S 16D700_W244S	100 %	344.00	22.81	5.00	0.0	-0.0	0.0	344.00	22.81	0.00	0.0
B-32		Radiant 8S 16D700_W244S	100 %	354.50	22.81	5.00	0.0	-0.0	0.0	354.50	22.81	0.00	0.0
B-33		Radiant 8S 16D700_W244S	100 %	365.00	22.81	5.00	0.0	-0.0	0.0	365.00	22.81	0.00	0.0
B-34		Radiant 8S 16D700_W244S	100 %	375.50	22.81	5.00	0.0	-0.0	0.0	375.50	22.81	0.00	0.0
B-35		Radiant 8S 16D700_W244S	100 %	386.00	22.81	5.00	0.0	-0.0	0.0	386.00	22.81	0.00	0.0
B-36		Radiant 8S 16D700_W244S	100 %	396.50	22.81	5.00	0.0	-0.0	0.0	396.50	22.81	0.00	0.0
B-37		Radiant 8S 16D700_W244S	100 %	407.00	22.81	5.00	0.0	-0.0	0.0	407.00	22.81	0.00	0.0
B-38		Radiant 8S 16D700_W244S	100 %	417.50	22.81	5.00	0.0	-0.0	0.0	417.50	22.81	0.00	0.0
B-39		Radiant 8S 16D700_W244S	100 %	428.00	22.81	5.00	0.0	-0.0	0.0	428.00	22.81	0.00	0.0
B-40		Radiant 8S 16D700_W244S	100 %	438.50	22.81	5.00	0.0	-0.0	0.0	438.50	22.81	0.00	0.0
B-41		Radiant 8S 16D700_W244S	100 %	449.00	22.81	5.00	0.0	-0.0	0.0	449.00	22.81	0.00	0.0
B-42		Radiant 8S 16D700_W244S	100 %	459.50	22.81	5.00	0.0	-0.0	0.0	459.50	22.81	0.00	0.0
B-43		Radiant 8S 16D700_W244S	100 %	470.00	22.81	5.00	0.0	-0.0	0.0	470.00	22.81	0.00	0.0
B-44		Radiant 8S 16D700_W244S	100 %	480.50	22.81	5.00	0.0	-0.0	0.0	480.50	22.81	0.00	0.0
B-45		Radiant 8S 16D700_W244S	100 %	491.00	22.81	5.00	0.0	-0.0	0.0	491.00	22.81	0.00	0.0
B-46		Radiant 8S 16D700_W244S	100 %	501.50	22.81	5.00	0.0	-0.0	0.0	501.50	22.81	0.00	0.0
B-47		Radiant 8S 16D700_W244S	100 %	512.00	22.81	5.00	0.0	-0.0	0.0	512.00	22.81	0.00	0.0
B-48		Radiant 8S 16D700_W244S	100 %	522.50	22.81	5.00	0.0	-0.0	0.0	522.50	22.81	0.00	0.0
B-49		Radiant 8S 16D700_W244S	100 %	533.00	22.81	5.00	0.0	-0.0	0.0	533.00	22.81	0.00	0.0
B-50		Radiant 8S 16D700_W244S	100 %	543.50	22.81	5.00	0.0	-0.0	0.0	543.50	22.81	0.00	0.0
B-51		Radiant 8S 16D700_W244S	100 %	554.00	22.81	5.00	0.0	-0.0	0.0	554.00	22.81	0.00	0.0
B-52		Radiant 8S 16D700_W244S	100 %	564.50	22.81	5.00	0.0	-0.0	0.0	564.50	22.81	0.00	0.0
B-53		Radiant 8S 16D700_W244S	100 %	575.00	22.81	5.00	0.0	-0.0	0.0	575.00	22.81	0.00	0.0
B-54		Radiant 8S 16D700_W244S	100 %	585.50	22.81	5.00	0.0	-0.0	0.0	585.50	22.81	0.00	0.0
B-55		Radiant 8S 16D700_W244S	100 %	29.00	3.50	5.90	0.0	-0.0	0.0	29.00	3.50	-0.00	0.0
B-56		Radiant 8S 16D700_W244S	100 %	39.50	3.50	5.90	0.0	-0.0	0.0	39.50	3.50	-0.00	0.0
B-57		Radiant 8S 16D700_W244S	100 %	50.00	3.50	5.90	0.0	-0.0	0.0	50.00	3.50	-0.00	0.0
B-58		Radiant 8S 16D700_W244S	100 %	60.50	3.50	5.90	0.0	-0.0	0.0	60.50	3.50	-0.00	0.0
B-59		Radiant 8S 16D700_W244S	100 %	71.00	3.50	5.90	0.0	-0.0	0.0	71.00	3.50	-0.00	0.0
B-60		Radiant 8S 16D700_W244S	100 %	81.50	3.50	5.90	0.0	-0.0	0.0	81.50	3.50	-0.00	0.0
B-61		Radiant 8S 16D700_W244S	100 %	92.00	3.50	5.90	0.0	-0.0	0.0	92.00	3.50	-0.00	0.0
B-62		Radiant 8S 16D700_W244S	100 %	102.50	3.50	5.90	0.0	-0.0	0.0	102.50	3.50	-0.00	0.0
B-63		Radiant 8S 16D700_W244S	100 %	113.00	3.50	5.90	0.0	-0.0	0.0	113.00	3.50	-0.00	0.0
B-64		Radiant 8S 16D700_W244S	100 %	123.50	3.50	5.90	0.0	-0.0	0.0	123.50	3.50	-0.00	0.0
B-65		Radiant 8S 16D700_W244S	100 %	134.00	3.50	5.90	0.0	-0.0	0.0	134.00	3.50	-0.00	0.0
B-66		Radiant 8S 16D700_W244S	100 %	144.50	3.50	5.90	0.0	-0.0	0.0	144.50	3.50	-0.00	0.0
B-67		Radiant 8S 16D700_W244S	100 %	155.00	3.50	5.90	0.0	-0.0	0.0	155.00	3.50	-0.00	0.0
B-68		Radiant 8S 16D700_W244S	100 %	165.50	3.50	5.90	0.0	-0.0	0.0	165.50	3.50	-0.00	0.0
B-69		Radiant 8S 16D700_W244S	100 %	176.00	3.50	5.90	0.0	-0.0	0.0	176.00	3.50	-0.00	0.0
B-70		Radiant 8S 16D700_W244S	100 %	186.50	3.50	5.90	0.0	-0.0	0.0	186.50	3.50	-0.00	0.0
B-71		Radiant 8S 16D700_W244S	100 %	197.00	3.50	5.90	0.0	-0.0	0.0	197.00	3.50	-0.00	0.0
B-72		Radiant 8S 16D700_W244S	100 %	207.50	3.50	5.90	0.0	-0.0	0.0	207.50	3.50	-0.00	0.0
B-73		Radiant 8S 16D700_W244S	100 %	218.00	3.50	5.90	0.0	-0.0	0.0	218.00	3.50	-0.00	0.0
B-74		Radiant 8S 16D700_W244S	100 %	228.50	3.50	5.90	0.0	-0.0	0.0	228.50	3.50	-0.00	0.0
B-75		Radiant 8S 16D700_W244S	100 %	239.00	3.50	5.90	0.0	-0.0	0.0	239.00	3.50	-0.00	0.0
B-76		Radiant 8S 16D700_W244S	100 %	249.50	3.50	5.90	0.0	-0.0	0.0	249.50	3.50	-0.00	0.0
B-77		Radiant 8S 16D700_W244S	100 %	260.00	3.50	5.90	0.0	-0.0	0.0	260.00	3.50	-0.00	0.0
B-78		Radiant 8S 16D700_W244S	100 %	270.50	3.50	5.90	0.0	-0.0	0.0	270.50	3.50	-0.00	0.0
B-79		Radiant 8S 16D700_W244S	100 %	281.00	3.50	5.90	0.0	-0.0	0.0	281.00	3.50	-0.00	0.0
B-80		Radiant 8S 16D700_W244S	100 %	291.50	3.50	5.90	0.0	-0.0	0.0	291.50	3.50	-0.00	0.0
B-81		Radiant 8S 16D700_W244S	100 %	302.00	3.50	5.90	0.0	-0.0	0.0	302.00	3.50	-0.00	0.0
B-82		Radiant 8S 16D700_W244S	100 %	312.50	3.50	5.90	0.0	-0.0	0.0	312.50	3.50	-0.00	0.0
B-83		Radiant 8S 16D700_W244S	100 %	323.00	3.50	5.90	0.0	-0.0	0.0	323.00	3.50	-0.00	0.0
B-84		Radiant 8S 16D700_W244S	100 %	333.50	3.50	5.90	0.0	-0.0	0.0	333.50	3.50	-0.00	0.0
B-85		Radiant 8S 16D700_W244S	100 %	344.00	3.50	5.90	0.0	-0.0	0.0	344.00	3.50	-0.00	0.0
B-86		Radiant 8S 16D700_W244S	100 %	354.50	3.50	5.90	0.0	-0.0	0.0	354.50	3.50	-0.00	0.0
B-87		Radiant 8S 16D700_W244S	100 %	365.00	3.50	5.90	0.0	-0.0	0.0	365.00	3.50	-0.00	0.0
B-88		Radiant 8S 16D700_W244S	100 %	375.50	3.50	5.90	0.0	-0.0	0.0	375.50	3.50	-0.00	0.0
B-89		Radiant 8S 16D700_W244S	100 %	386.00	3.50	5.90	0.0	-0.0	0.0	386.00	3.50	-0.00	0.0
B-90		Radiant 8S 16D700_W244S	100 %	396.50	3.50	5.90	0.0	-0.0	0.0	396.50	3.50	-0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
B-91		Radiant 8S 16D700_W244S	100 %	407.00	3.50	5.90	0.0	-0.0	0.0	407.00	3.50	-0.00	0.0
B-92		Radiant 8S 16D700_W244S	100 %	417.50	3.50	5.90	0.0	-0.0	0.0	417.50	3.50	-0.00	0.0
B-93		Radiant 8S 16D700_W244S	100 %	428.00	3.50	5.90	0.0	-0.0	0.0	428.00	3.50	-0.00	0.0
B-94		Radiant 8S 16D700_W244S	100 %	438.50	3.50	5.90	0.0	-0.0	0.0	438.50	3.50	-0.00	0.0
B-95		Radiant 8S 16D700_W244S	100 %	449.00	3.50	5.90	0.0	-0.0	0.0	449.00	3.50	-0.00	0.0
B-96		Radiant 8S 16D700_W244S	100 %	459.50	3.50	5.90	0.0	-0.0	0.0	459.50	3.50	-0.00	0.0
B-97		Radiant 8S 16D700_W244S	100 %	470.00	3.50	5.90	0.0	-0.0	0.0	470.00	3.50	-0.00	0.0
B-98		Radiant 8S 16D700_W244S	100 %	480.50	3.50	5.90	0.0	-0.0	0.0	480.50	3.50	-0.00	0.0
B-99		Radiant 8S 16D700_W244S	100 %	491.00	3.50	5.90	0.0	-0.0	0.0	491.00	3.50	-0.00	0.0
B-100		Radiant 8S 16D700_W244S	100 %	501.50	3.50	5.90	0.0	-0.0	0.0	501.50	3.50	-0.00	0.0
B-101		Radiant 8S 16D700_W244S	100 %	512.00	3.50	5.90	0.0	-0.0	0.0	512.00	3.50	-0.00	0.0
B-102		Radiant 8S 16D700_W244S	100 %	522.50	3.50	5.90	0.0	-0.0	0.0	522.50	3.50	-0.00	0.0
B-103		Radiant 8S 16D700_W244S	100 %	533.00	3.50	5.90	0.0	-0.0	0.0	533.00	3.50	-0.00	0.0
B-104		Radiant 8S 16D700_W244S	100 %	543.50	3.50	5.90	0.0	-0.0	0.0	543.50	3.50	-0.00	0.0
B-105		Radiant 8S 16D700_W244S	100 %	554.00	3.50	5.90	0.0	-0.0	0.0	554.00	3.50	-0.00	0.0
B-106		Radiant 8S 16D700_W244S	100 %	564.50	3.50	5.90	0.0	-0.0	0.0	564.50	3.50	-0.00	0.0
B-107		Radiant 8S 16D700_W244S	100 %	575.00	3.50	5.90	0.0	-0.0	0.0	575.00	3.50	-0.00	0.0
B-108		Radiant 8S 16D700_W244S	100 %	585.50	3.50	5.90	0.0	-0.0	0.0	585.50	3.50	-0.00	0.0
C-1		Radiant 8S 16D600_W279A	100 %	29.00	15.81	5.45	0.0	-0.0	0.0	29.00	15.81	0.00	0.0
C-2		Radiant 8S 16D600_W279A	100 %	39.50	15.81	5.45	0.0	-0.0	0.0	39.50	15.81	0.00	0.0
C-3		Radiant 8S 16D600_W279A	100 %	50.00	15.81	5.45	0.0	-0.0	0.0	50.00	15.81	0.00	0.0
C-4		Radiant 8S 16D600_W279A	100 %	60.50	15.81	5.45	0.0	-0.0	0.0	60.50	15.81	0.00	0.0
C-5		Radiant 8S 16D600_W279A	100 %	71.00	15.81	5.45	0.0	-0.0	0.0	71.00	15.81	0.00	0.0
C-6		Radiant 8S 16D600_W279A	100 %	81.50	15.81	5.45	0.0	-0.0	0.0	81.50	15.81	0.00	0.0
C-7		Radiant 8S 16D600_W279A	100 %	92.00	15.81	5.45	0.0	-0.0	0.0	92.00	15.81	0.00	0.0
C-8		Radiant 8S 16D600_W279A	100 %	102.50	15.81	5.45	0.0	-0.0	0.0	102.50	15.81	0.00	0.0
C-9		Radiant 8S 16D600_W279A	100 %	113.00	15.81	5.45	0.0	-0.0	0.0	113.00	15.81	0.00	0.0
C-10		Radiant 8S 16D600_W279A	100 %	123.50	15.81	5.45	0.0	-0.0	0.0	123.50	15.81	0.00	0.0
C-11		Radiant 8S 16D600_W279A	100 %	134.00	15.81	5.45	0.0	-0.0	0.0	134.00	15.81	0.00	0.0
C-12		Radiant 8S 16D600_W279A	100 %	144.50	15.81	5.45	0.0	-0.0	0.0	144.50	15.81	0.00	0.0
C-13		Radiant 8S 16D600_W279A	100 %	155.00	15.81	5.45	0.0	-0.0	0.0	155.00	15.81	0.00	0.0
C-14		Radiant 8S 16D600_W279A	100 %	165.50	15.81	5.45	0.0	-0.0	0.0	165.50	15.81	0.00	0.0
C-15		Radiant 8S 16D600_W279A	100 %	176.00	15.81	5.45	0.0	-0.0	0.0	176.00	15.81	0.00	0.0
C-16		Radiant 8S 16D600_W279A	100 %	186.50	15.81	5.45	0.0	-0.0	0.0	186.50	15.81	0.00	0.0
C-17		Radiant 8S 16D600_W279A	100 %	197.00	15.81	5.45	0.0	-0.0	0.0	197.00	15.81	0.00	0.0
C-18		Radiant 8S 16D600_W279A	100 %	207.50	15.81	5.45	0.0	-0.0	0.0	207.50	15.81	0.00	0.0
C-19		Radiant 8S 16D600_W279A	100 %	218.00	15.81	5.45	0.0	-0.0	0.0	218.00	15.81	0.00	0.0
C-20		Radiant 8S 16D600_W279A	100 %	228.50	15.81	5.45	0.0	-0.0	0.0	228.50	15.81	0.00	0.0
C-21		Radiant 8S 16D600_W279A	100 %	239.00	15.81	5.45	0.0	-0.0	0.0	239.00	15.81	0.00	0.0
C-22		Radiant 8S 16D600_W279A	100 %	249.50	15.81	5.45	0.0	-0.0	0.0	249.50	15.81	0.00	0.0
C-23		Radiant 8S 16D600_W279A	100 %	260.00	15.81	5.45	0.0	-0.0	0.0	260.00	15.81	0.00	0.0
C-24		Radiant 8S 16D600_W279A	100 %	270.50	15.81	5.45	0.0	-0.0	0.0	270.50	15.81	0.00	0.0
C-25		Radiant 8S 16D600_W279A	100 %	281.00	15.81	5.45	0.0	-0.0	0.0	281.00	15.81	0.00	0.0
C-26		Radiant 8S 16D600_W279A	100 %	291.50	15.81	5.45	0.0	-0.0	0.0	291.50	15.81	0.00	0.0
C-27		Radiant 8S 16D600_W279A	100 %	302.00	15.81	5.45	0.0	-0.0	0.0	302.00	15.81	0.00	0.0
C-28		Radiant 8S 16D600_W279A	100 %	312.50	15.81	5.45	0.0	-0.0	0.0	312.50	15.81	0.00	0.0
C-29		Radiant 8S 16D600_W279A	100 %	323.00	15.81	5.45	0.0	-0.0	0.0	323.00	15.81	0.00	0.0
C-30		Radiant 8S 16D600_W279A	100 %	333.50	15.81	5.45	0.0	-0.0	0.0	333.50	15.81	0.00	0.0
C-31		Radiant 8S 16D600_W279A	100 %	344.00	15.81	5.45	0.0	-0.0	0.0	344.00	15.81	0.00	0.0
C-32		Radiant 8S 16D600_W279A	100 %	354.50	15.81	5.45	0.0	-0.0	0.0	354.50	15.81	0.00	0.0
C-33		Radiant 8S 16D600_W279A	100 %	365.00	15.81	5.45	0.0	-0.0	0.0	365.00	15.81	0.00	0.0
C-34		Radiant 8S 16D600_W279A	100 %	375.50	15.81	5.45	0.0	-0.0	0.0	375.50	15.81	0.00	0.0
C-35		Radiant 8S 16D600_W279A	100 %	386.00	15.81	5.45	0.0	-0.0	0.0	386.00	15.81	0.00	0.0
C-36		Radiant 8S 16D600_W279A	100 %	396.50	15.81	5.45	0.0	-0.0	0.0	396.50	15.81	0.00	0.0
C-37		Radiant 8S 16D600_W279A	100 %	407.00	15.81	5.45	0.0	-0.0	0.0	407.00	15.81	0.00	0.0
C-38		Radiant 8S 16D600_W279A	100 %	417.50	15.81	5.45	0.0	-0.0	0.0	417.50	15.81	0.00	0.0
C-39		Radiant 8S 16D600_W279A	100 %	428.00	15.81	5.45	0.0	-0.0	0.0	428.00	15.81	0.00	0.0
C-40		Radiant 8S 16D600_W279A	100 %	438.50	15.81	5.45	0.0	-0.0	0.0	438.50	15.81	0.00	0.0
C-41		Radiant 8S 16D600_W279A	100 %	449.00	15.81	5.45	0.0	-0.0	0.0	449.00	15.81	0.00	0.0
C-42		Radiant 8S 16D600_W279A	100 %	459.50	15.81	5.45	0.0	-0.0	0.0	459.50	15.81	0.00	0.0
C-43		Radiant 8S 16D600_W279A	100 %	470.00	15.81	5.45	0.0	-0.0	0.0	470.00	15.81	0.00	0.0
C-44		Radiant 8S 16D600_W279A	100 %	480.50	15.81	5.45	0.0	-0.0	0.0	480.50	15.81	0.00	0.0
C-45		Radiant 8S 16D600_W279A	100 %	491.00	15.81	5.45	0.0	-0.0	0.0	491.00	15.81	0.00	0.0
C-46		Radiant 8S 16D600_W279A	100 %	501.50	15.81	5.45	0.0	-0.0	0.0	501.50	15.81	0.00	0.0
C-47		Radiant 8S 16D600_W279A	100 %	512.00	15.81	5.45	0.0	-0.0	0.0	512.00	15.81	0.00	0.0
C-48		Radiant 8S 16D600_W279A	100 %	522.50	15.81	5.45	0.0	-0.0	0.0	522.50	15.81	0.00	0.0
C-49		Radiant 8S 16D600_W279A	100 %	533.00	15.81	5.45	0.0	-0.0	0.0	533.00	15.81	0.00	0.0
C-50		Radiant 8S 16D600_W279A	100 %	543.50	15.81	5.45	0.0	-0.0	0.0	543.50	15.81	0.00	0.0
C-51		Radiant 8S 16D600_W279A	100 %	554.00	15.81	5.45	0.0	-0.0	0.0	554.00	15.81	0.00	0.0
C-52		Radiant 8S 16D600_W279A	100 %	564.50	15.81	5.45	0.0	-0.0	0.0	564.50	15.81	0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
C-53		Radiant 8S 16D600_W279A	100 %	575.00	15.81	5.45	0.0	-0.0	0.0	575.00	15.81	0.00	0.0
C-54		Radiant 8S 16D600_W279A	100 %	585.50	15.81	5.45	0.0	-0.0	0.0	585.50	15.81	0.00	0.0
C-55		Radiant 8S 16D600_W279A	100 %	29.00	10.50	5.00	0.0	-0.0	180.0	29.00	10.50	0.00	0.0
C-56		Radiant 8S 16D600_W279A	100 %	39.50	10.50	5.00	0.0	-0.0	180.0	39.50	10.50	0.00	0.0
C-57		Radiant 8S 16D600_W279A	100 %	50.00	10.50	5.00	0.0	-0.0	180.0	50.00	10.50	0.00	0.0
C-58		Radiant 8S 16D600_W279A	100 %	60.50	10.50	5.00	0.0	-0.0	180.0	60.50	10.50	0.00	0.0
C-59		Radiant 8S 16D600_W279A	100 %	71.00	10.50	5.00	0.0	-0.0	180.0	71.00	10.50	0.00	0.0
C-60		Radiant 8S 16D600_W279A	100 %	81.50	10.50	5.00	0.0	-0.0	180.0	81.50	10.50	0.00	0.0
C-61		Radiant 8S 16D600_W279A	100 %	92.00	10.50	5.00	0.0	-0.0	180.0	92.00	10.50	0.00	0.0
C-62		Radiant 8S 16D600_W279A	100 %	102.50	10.50	5.00	0.0	-0.0	180.0	102.50	10.50	0.00	0.0
C-63		Radiant 8S 16D600_W279A	100 %	113.00	10.50	5.00	0.0	-0.0	180.0	113.00	10.50	0.00	0.0
C-64		Radiant 8S 16D600_W279A	100 %	123.50	10.50	5.00	0.0	-0.0	180.0	123.50	10.50	0.00	0.0
C-65		Radiant 8S 16D600_W279A	100 %	134.00	10.50	5.00	0.0	-0.0	180.0	134.00	10.50	0.00	0.0
C-66		Radiant 8S 16D600_W279A	100 %	144.50	10.50	5.00	0.0	-0.0	180.0	144.50	10.50	0.00	0.0
C-67		Radiant 8S 16D600_W279A	100 %	155.00	10.50	5.00	0.0	-0.0	180.0	155.00	10.50	0.00	0.0
C-68		Radiant 8S 16D600_W279A	100 %	165.50	10.50	5.00	0.0	-0.0	180.0	165.50	10.50	0.00	0.0
C-69		Radiant 8S 16D600_W279A	100 %	176.00	10.50	5.00	0.0	-0.0	180.0	176.00	10.50	0.00	0.0
C-70		Radiant 8S 16D600_W279A	100 %	186.50	10.50	5.00	0.0	-0.0	180.0	186.50	10.50	0.00	0.0
C-71		Radiant 8S 16D600_W279A	100 %	197.00	10.50	5.00	0.0	-0.0	180.0	197.00	10.50	0.00	0.0
C-72		Radiant 8S 16D600_W279A	100 %	207.50	10.50	5.00	0.0	-0.0	180.0	207.50	10.50	0.00	0.0
C-73		Radiant 8S 16D600_W279A	100 %	218.00	10.50	5.00	0.0	-0.0	180.0	218.00	10.50	0.00	0.0
C-74		Radiant 8S 16D600_W279A	100 %	228.50	10.50	5.00	0.0	-0.0	180.0	228.50	10.50	0.00	0.0
C-75		Radiant 8S 16D600_W279A	100 %	239.00	10.50	5.00	0.0	-0.0	180.0	239.00	10.50	0.00	0.0
C-76		Radiant 8S 16D600_W279A	100 %	249.50	10.50	5.00	0.0	-0.0	180.0	249.50	10.50	0.00	0.0
C-77		Radiant 8S 16D600_W279A	100 %	260.00	10.50	5.00	0.0	-0.0	180.0	260.00	10.50	0.00	0.0
C-78		Radiant 8S 16D600_W279A	100 %	270.50	10.50	5.00	0.0	-0.0	180.0	270.50	10.50	0.00	0.0
C-79		Radiant 8S 16D600_W279A	100 %	281.00	10.50	5.00	0.0	-0.0	180.0	281.00	10.50	0.00	0.0
C-80		Radiant 8S 16D600_W279A	100 %	291.50	10.50	5.00	0.0	-0.0	180.0	291.50	10.50	0.00	0.0
C-81		Radiant 8S 16D600_W279A	100 %	302.00	10.50	5.00	0.0	-0.0	180.0	302.00	10.50	0.00	0.0
C-82		Radiant 8S 16D600_W279A	100 %	312.50	10.50	5.00	0.0	-0.0	180.0	312.50	10.50	0.00	0.0
C-83		Radiant 8S 16D600_W279A	100 %	323.00	10.50	5.00	0.0	-0.0	180.0	323.00	10.50	0.00	0.0
C-84		Radiant 8S 16D600_W279A	100 %	333.50	10.50	5.00	0.0	-0.0	180.0	333.50	10.50	0.00	0.0
C-85		Radiant 8S 16D600_W279A	100 %	344.00	10.50	5.00	0.0	-0.0	180.0	344.00	10.50	0.00	0.0
C-86		Radiant 8S 16D600_W279A	100 %	354.50	10.50	5.00	0.0	-0.0	180.0	354.50	10.50	0.00	0.0
C-87		Radiant 8S 16D600_W279A	100 %	365.00	10.50	5.00	0.0	-0.0	180.0	365.00	10.50	0.00	0.0
C-88		Radiant 8S 16D600_W279A	100 %	375.50	10.50	5.00	0.0	-0.0	180.0	375.50	10.50	0.00	0.0
C-89		Radiant 8S 16D600_W279A	100 %	386.00	10.50	5.00	0.0	-0.0	180.0	386.00	10.50	0.00	0.0
C-90		Radiant 8S 16D600_W279A	100 %	396.50	10.50	5.00	0.0	-0.0	180.0	396.50	10.50	0.00	0.0
C-91		Radiant 8S 16D600_W279A	100 %	407.00	10.50	5.00	0.0	-0.0	180.0	407.00	10.50	0.00	0.0
C-92		Radiant 8S 16D600_W279A	100 %	417.50	10.50	5.00	0.0	-0.0	180.0	417.50	10.50	0.00	0.0
C-93		Radiant 8S 16D600_W279A	100 %	428.00	10.50	5.00	0.0	-0.0	180.0	428.00	10.50	0.00	0.0
C-94		Radiant 8S 16D600_W279A	100 %	438.50	10.50	5.00	0.0	-0.0	180.0	438.50	10.50	0.00	0.0
C-95		Radiant 8S 16D600_W279A	100 %	449.00	10.50	5.00	0.0	-0.0	180.0	449.00	10.50	0.00	0.0
C-96		Radiant 8S 16D600_W279A	100 %	459.50	10.50	5.00	0.0	-0.0	180.0	459.50	10.50	0.00	0.0
C-97		Radiant 8S 16D600_W279A	100 %	470.00	10.50	5.00	0.0	-0.0	180.0	470.00	10.50	0.00	0.0
C-98		Radiant 8S 16D600_W279A	100 %	480.50	10.50	5.00	0.0	-0.0	180.0	480.50	10.50	0.00	0.0
C-99		Radiant 8S 16D600_W279A	100 %	491.00	10.50	5.00	0.0	-0.0	180.0	491.00	10.50	0.00	0.0
C-100		Radiant 8S 16D600_W279A	100 %	501.50	10.50	5.00	0.0	-0.0	180.0	501.50	10.50	0.00	0.0
C-101		Radiant 8S 16D600_W279A	100 %	512.00	10.50	5.00	0.0	-0.0	180.0	512.00	10.50	0.00	0.0
C-102		Radiant 8S 16D600_W279A	100 %	522.50	10.50	5.00	0.0	-0.0	180.0	522.50	10.50	0.00	0.0
C-103		Radiant 8S 16D600_W279A	100 %	533.00	10.50	5.00	0.0	-0.0	180.0	533.00	10.50	0.00	0.0
C-104		Radiant 8S 16D600_W279A	100 %	543.50	10.50	5.00	0.0	-0.0	180.0	543.50	10.50	0.00	0.0
C-105		Radiant 8S 16D600_W279A	100 %	554.00	10.50	5.00	0.0	-0.0	180.0	554.00	10.50	0.00	0.0
C-106		Radiant 8S 16D600_W279A	100 %	564.50	10.50	5.00	0.0	-0.0	180.0	564.50	10.50	0.00	0.0
C-107		Radiant 8S 16D600_W279A	100 %	575.00	10.50	5.00	0.0	-0.0	180.0	575.00	10.50	0.00	0.0
C-108		Radiant 8S 16D600_W279A	100 %	585.50	10.50	5.00	0.0	-0.0	180.0	585.50	10.50	0.00	0.0

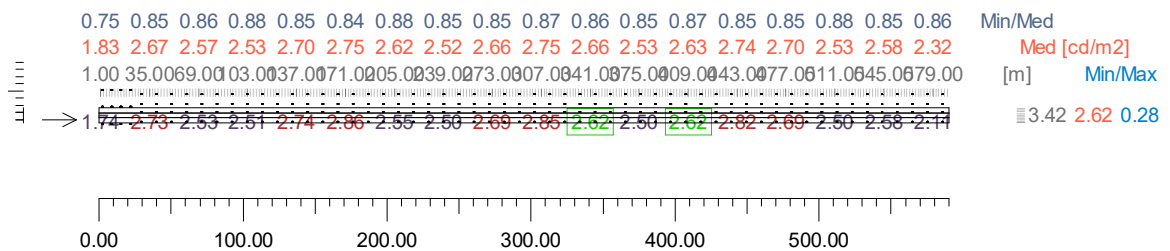
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 2 - Tangenziale - Oss. 1 [x=-60.00 y=4.59] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.62 cd/m2	0.86 cd/m2	3.81 cd/m2	0.33	0.22	0.69

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

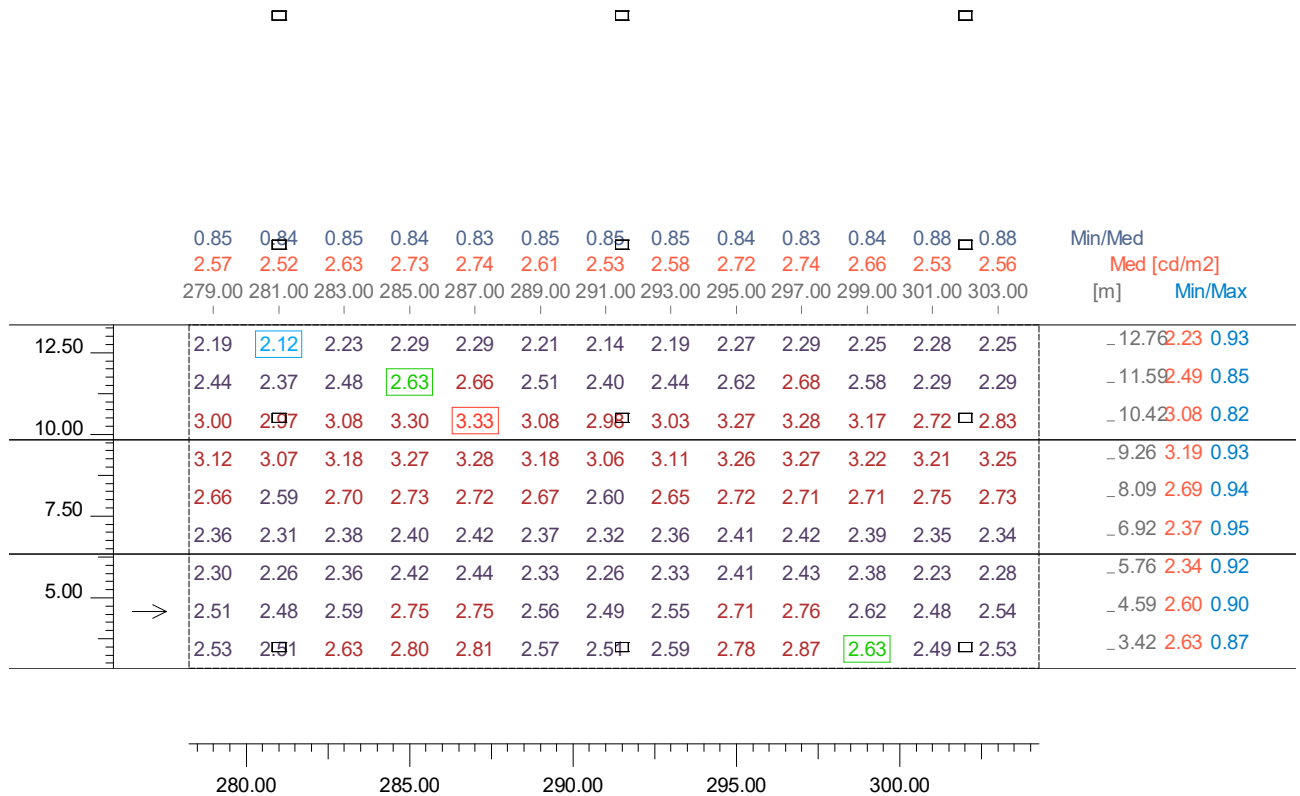


4.2 Valori delle Luminanze su: 2 - Tangenziale [Lp,c (Tangenziale, Sezione 2)] - Oss. 1 [x=-60.00 y=4.59

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.62 cd/m2	2.12 cd/m2	3.33 cd/m2	0.81	0.64	0.79

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

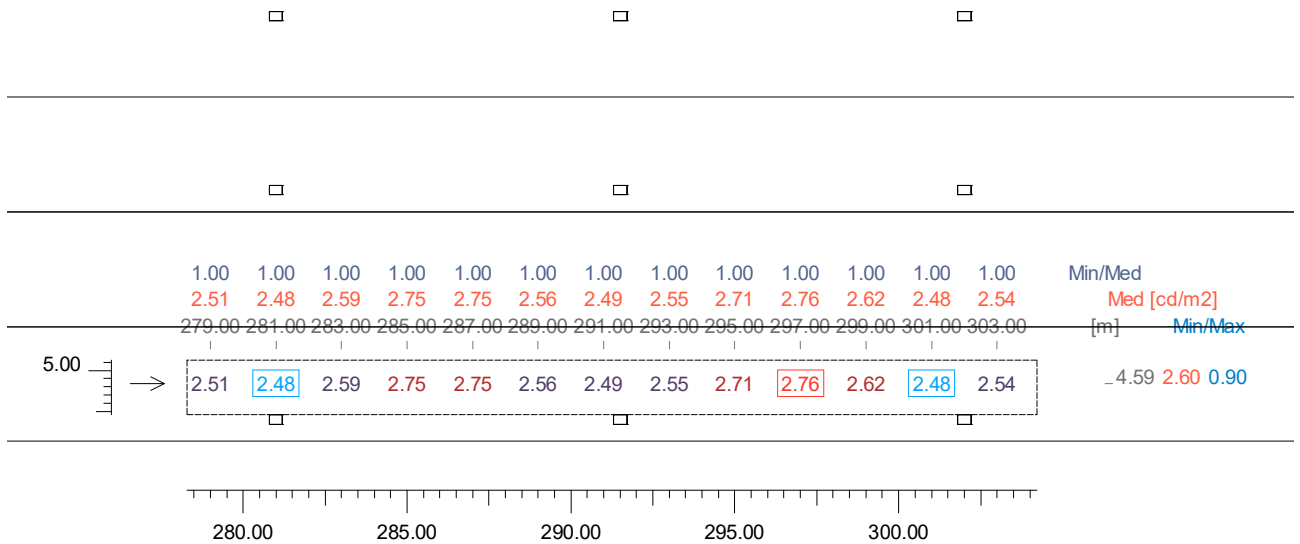


4.3 Valori delle Luminanze su: 2 - Tangenziale [UI,c1 (Tangenziale, Sezione 2)] - Oss. 1 [x=-60.00 y=4.59 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.60 cd/m ²	2.48 cd/m ²	2.76 cd/m ²	0.95	0.90	0.94

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

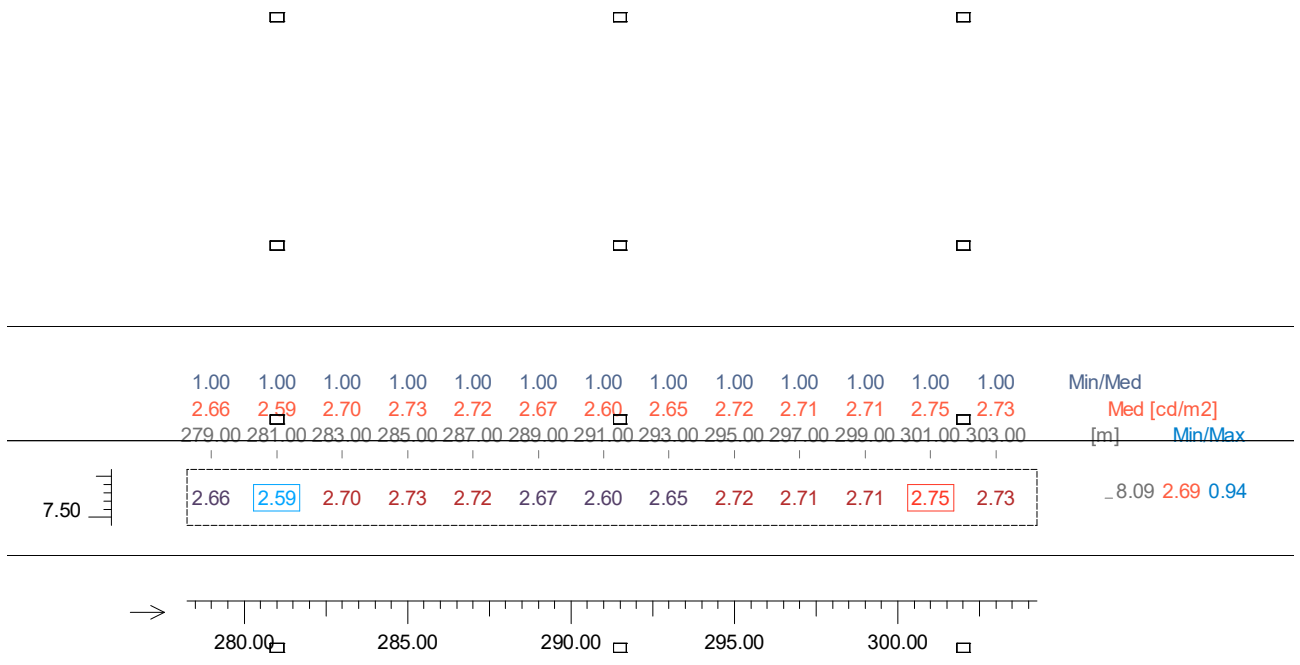


4.4 Valori delle Luminanze su: 2 - Tangenziale [UI,c2 (Tangenziale, Sezione 2)] - Oss. 1 [x=-60.00 y=4.59 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.69 cd/m ²	2.59 cd/m ²	2.75 cd/m ²	0.96	0.94	0.98

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

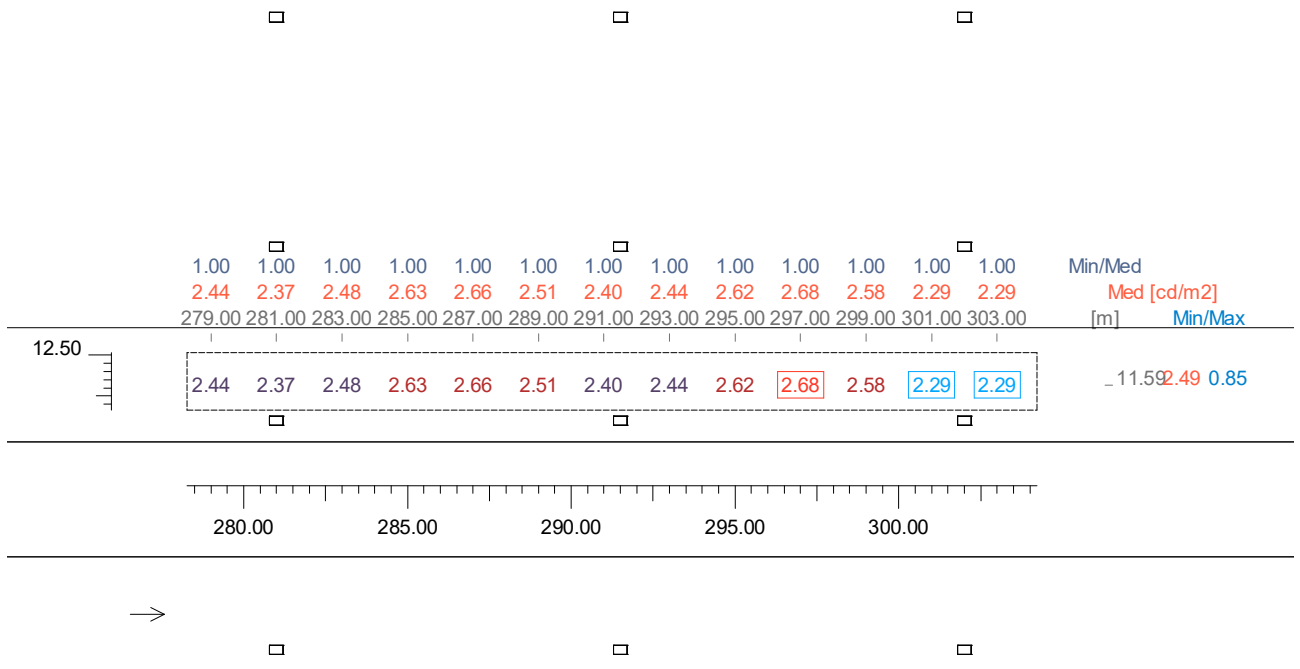


4.5 Valori delle Luminanze su: 2 - Tangenziale [UI,c3 (Tangenziale, Sezione 2)] - Oss. 1 [x=-60.00 y=4.59 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.49 cd/m2	2.29 cd/m2	2.68 cd/m2	0.92	0.85	0.93

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

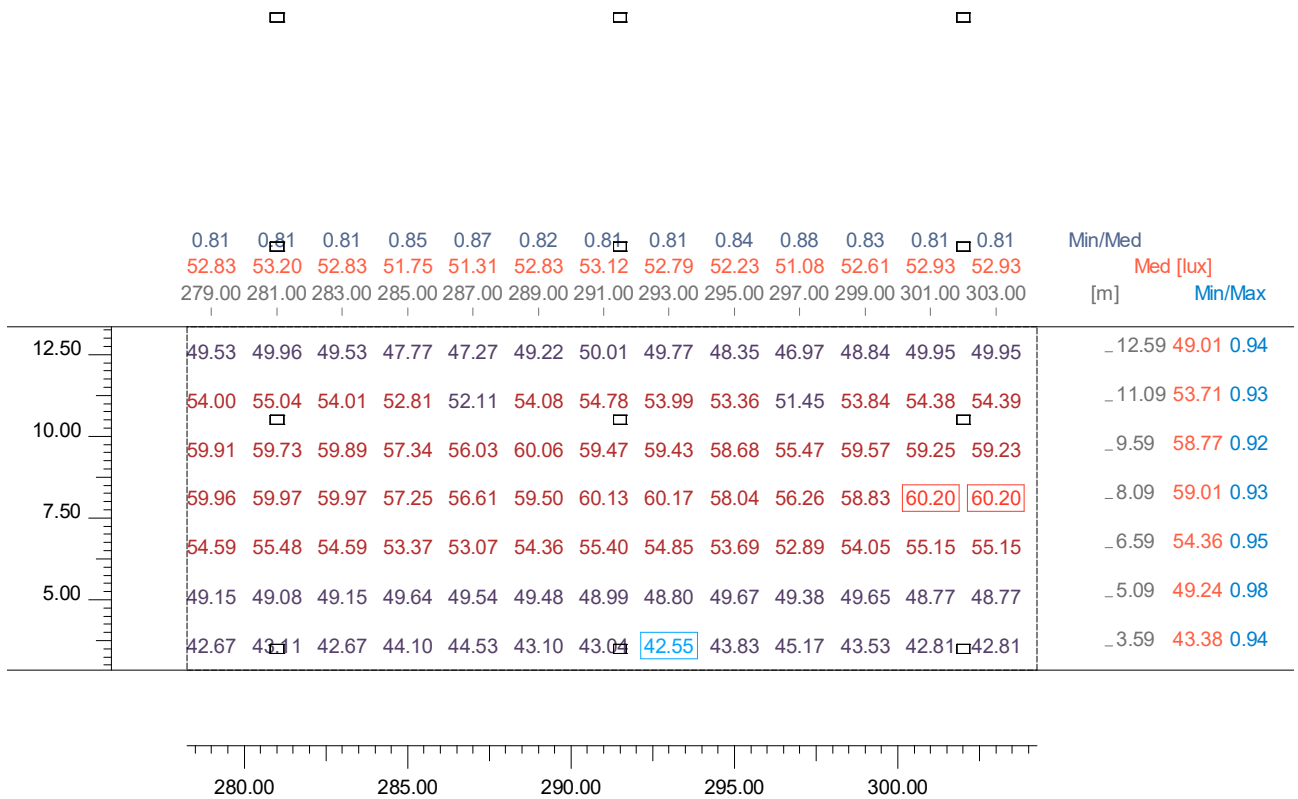


4.6 Valori di Illuminamento su: 2 - Tangenziale [Lp,c (Tangenziale, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.50 lx	42.55 lx	60.20 lx	0.81	0.71	0.87

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

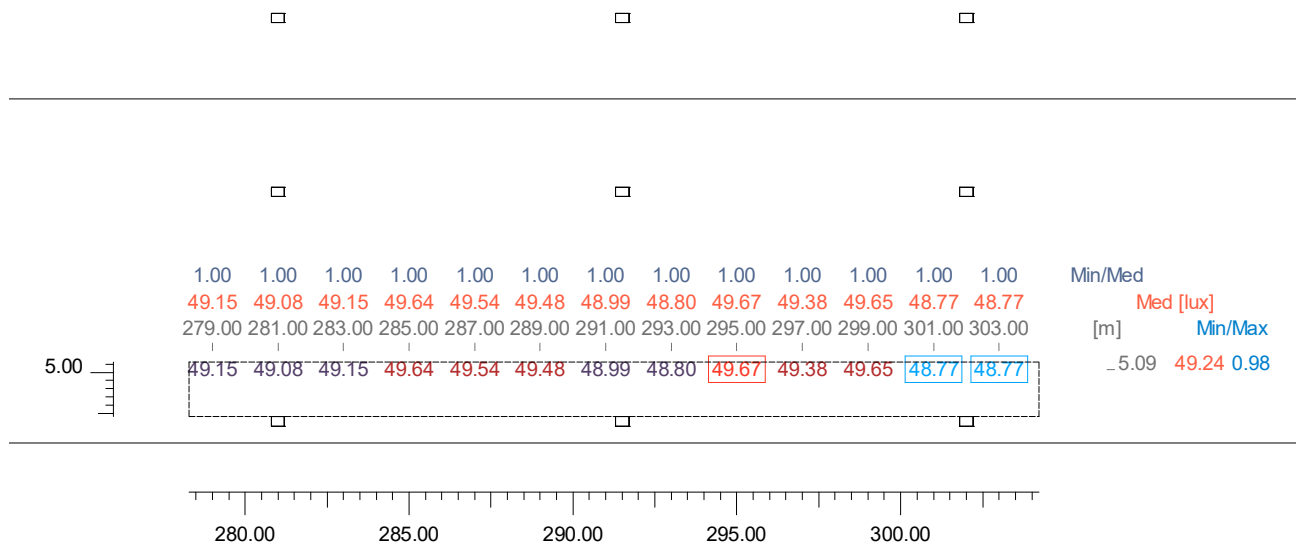


4.7 Valori di Illuminamento su: 2 - Tangenziale [UI,c1 (Tangenziale, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	49.24 lx	48.77 lx	49.67 lx	0.99	0.98	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

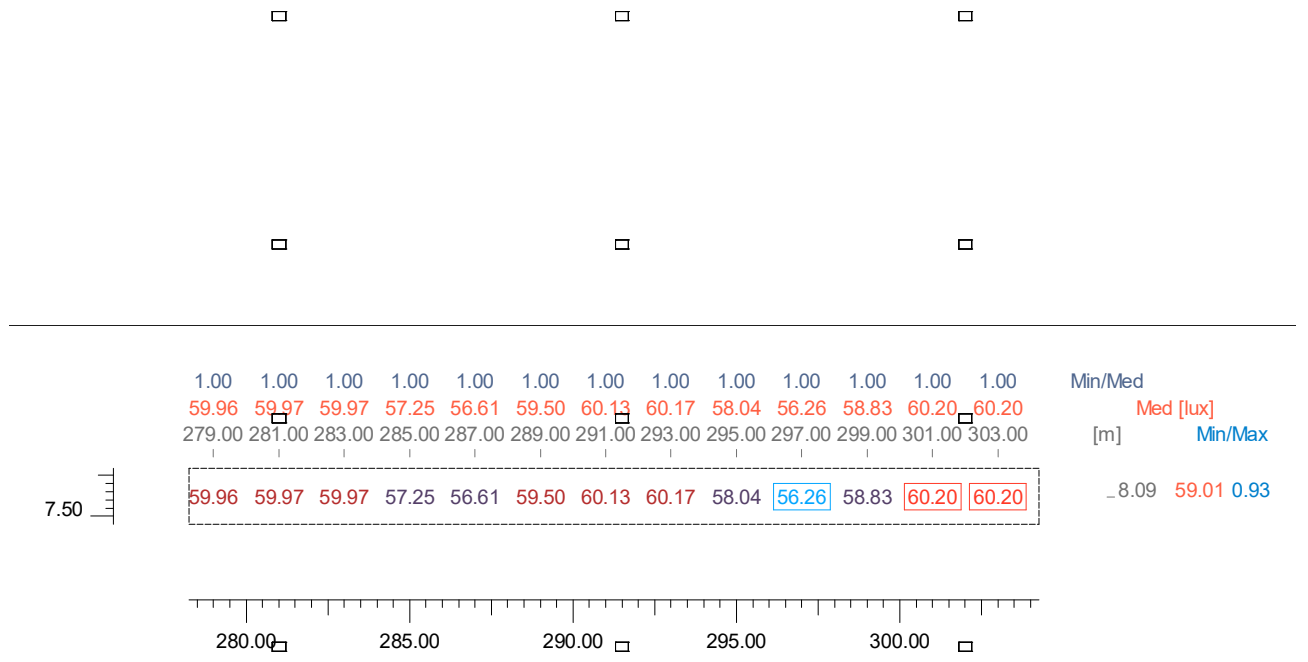


4.8 Valori di Illuminamento su: 2 - Tangenziale [UI,c2 (Tangenziale, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	59.01 lx	56.26 lx	60.20 lx	0.95	0.93	0.98

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

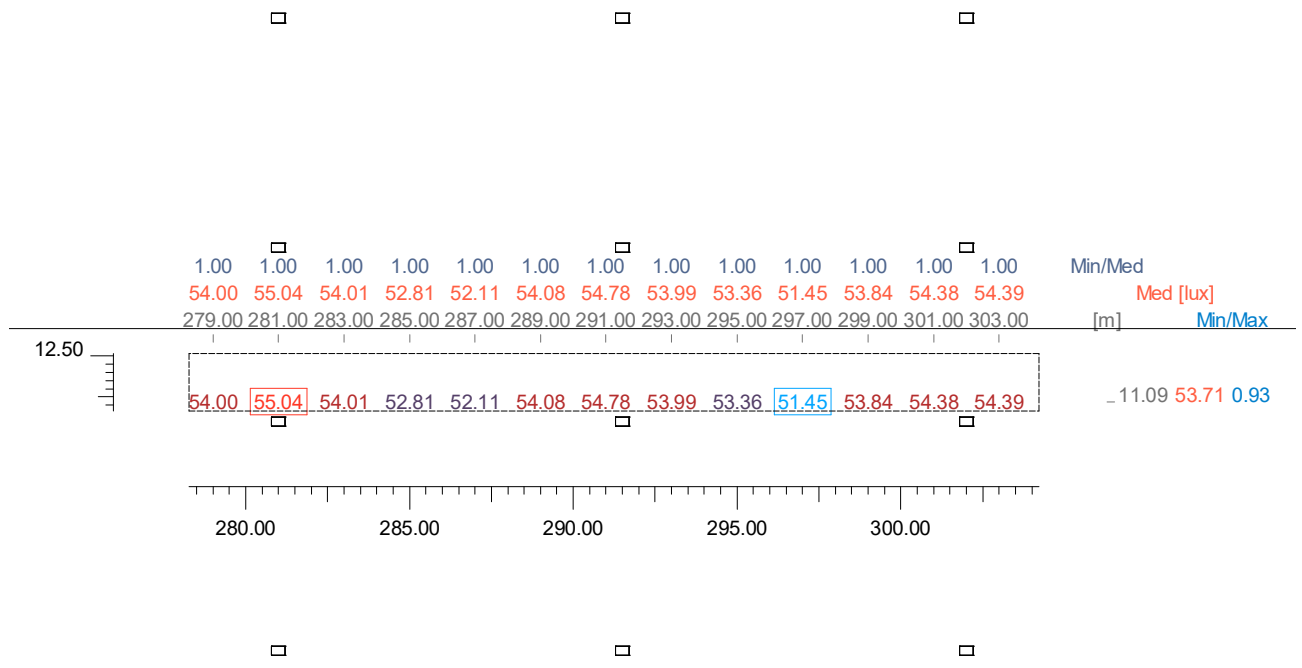


4.9 Valori di Illuminamento su: 2 - Tangenziale [UI,c3 (Tangenziale, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	53.71 lx	51.45 lx	55.04 lx	0.96	0.93	0.98

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

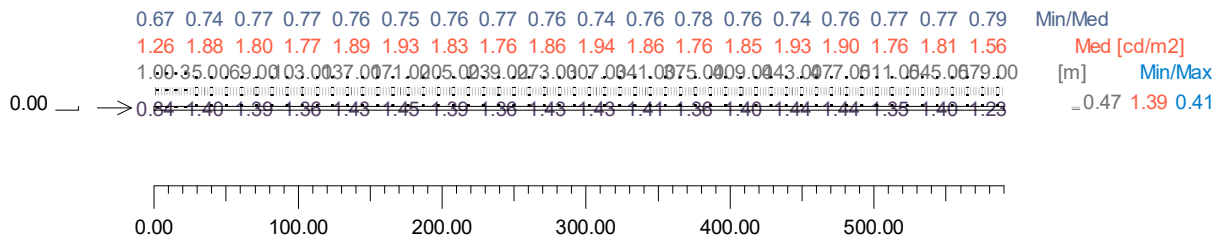


4.10 Valori delle Luminanze su: 1-1 (Carreggiata - Corsia d'Emergenza) - Oss. 1 [x=-60.00 y=1.42] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	1.83 cd/m2	0.61 cd/m2	2.66 cd/m2	0.33	0.23	0.69

Osservatore
Tipo Calcolo

[x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

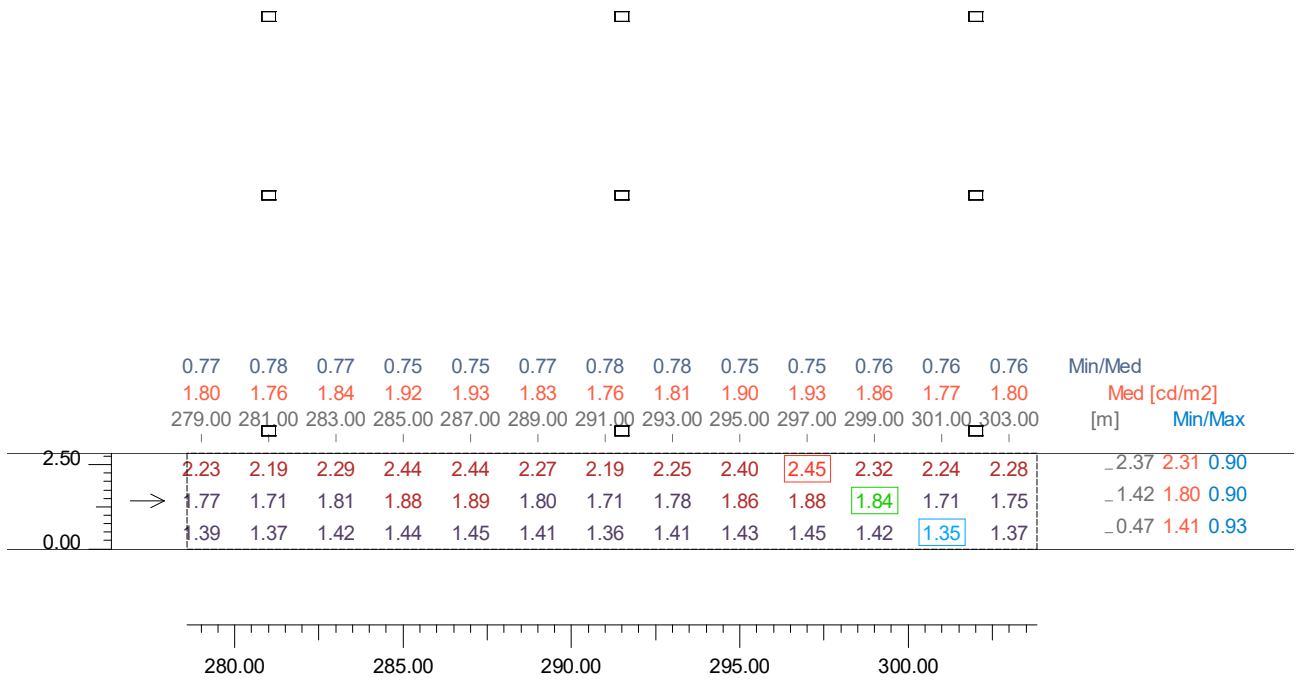


4.11 Valori delle Luminanze su: 1-1 (Carreggiata - Corsia d'Emergenza) [Lp,c,em (Tangenziale, Sezione

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	1.84 cd/m2	1.35 cd/m2	2.45 cd/m2	0.73	0.55	0.75

Osservatore
Tipo Calcolo

[x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

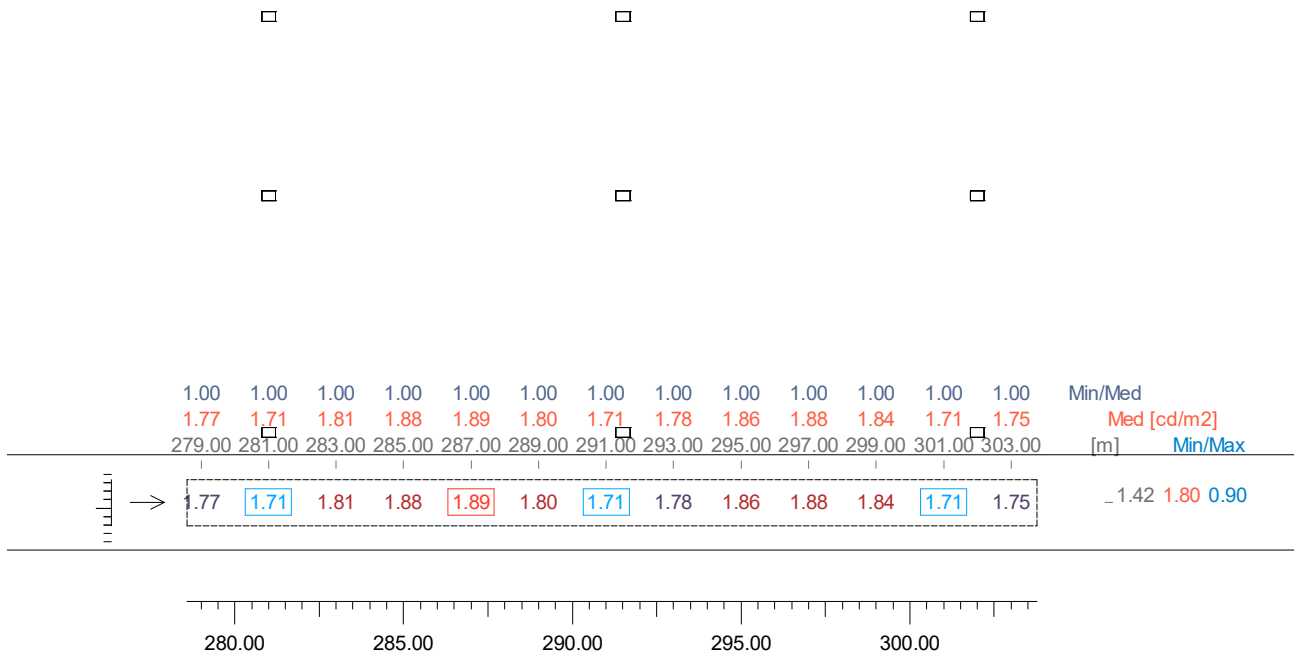


4.12 Valori delle Luminanze su: 1-1 (Carreggiata - Corsia d'Emergenza) [UI,c,em (Tangenziale, Sezione

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	1.80 cd/m2	1.71 cd/m2	1.89 cd/m2	0.95	0.90	0.95

Osservatore
Tipo Calcolo

[x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

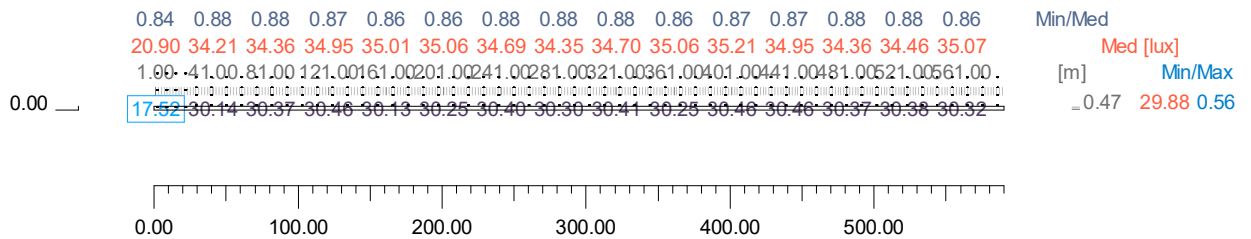


4.13 Valori di Illuminamento su: 1-1 (Carreggiata - Corsia d'Emergenza)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	34.35 lx	17.52 lx	39.81 lx	0.51	0.44	0.86

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

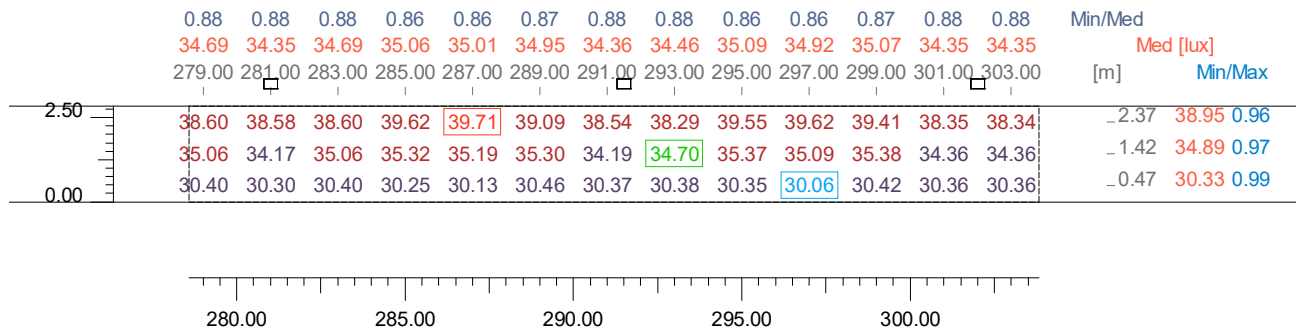


4.14 Valori di Illuminamento su: 1-1 (Carreggiata - Corsia d'Emergenza) [Lp,c,em (Tangenziale, Sezione

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	34.72 lx	30.06 lx	39.71 lx	0.87	0.76	0.87

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

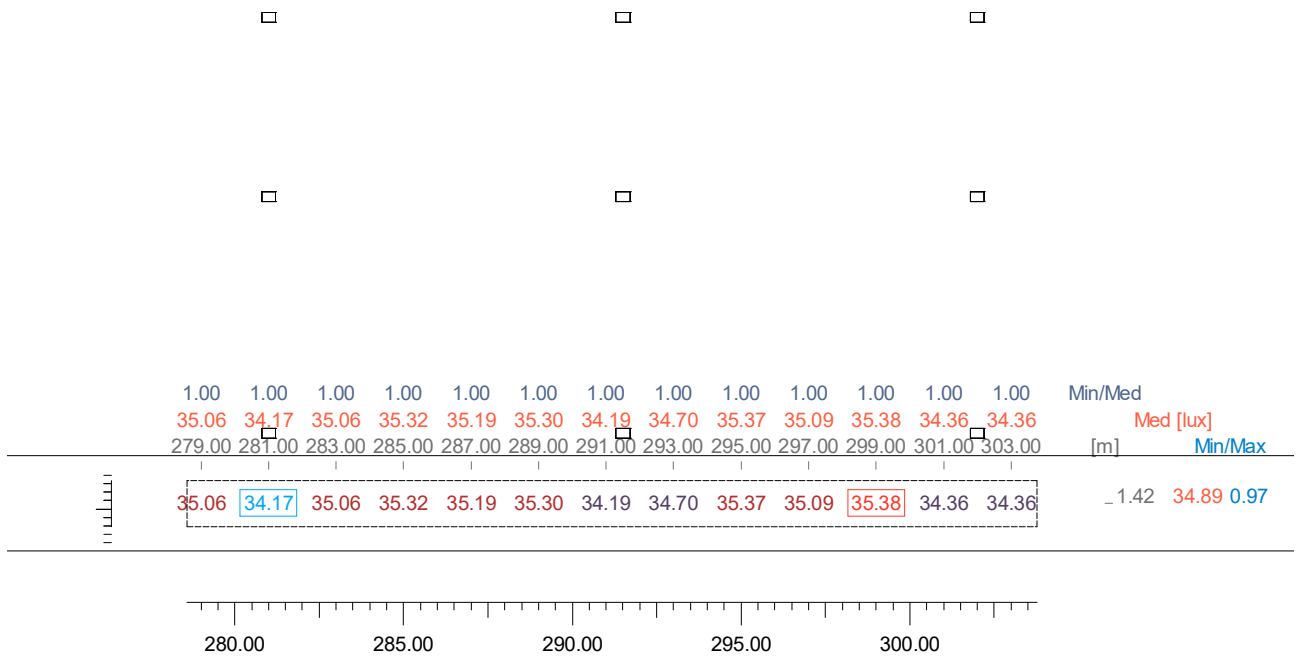


4.15 Valori di Illuminamento su: 1-1 (Carreggiata - Corsia d'Emergenza) [UI,c,em (Tangenziale, Sezione

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	34.89 lx	34.17 lx	35.38 lx	0.98	0.97	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

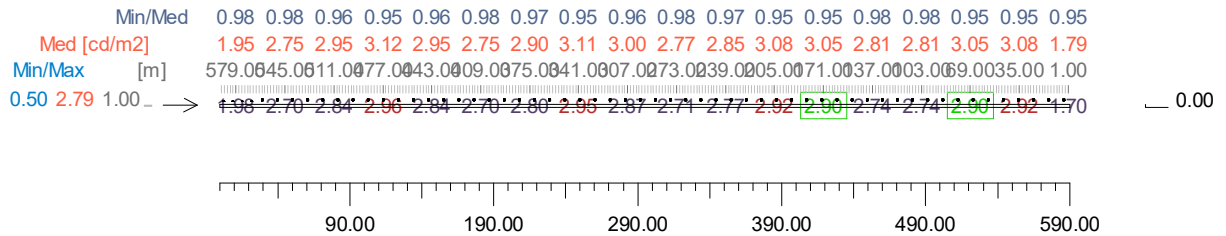


4.16 Valori delle Luminanze su: Parete Virtuale Destra - Oss. 1 (Lambert) [x=-60.00 y=1.42] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.89 cd/m2	1.49 cd/m2	3.29 cd/m2	0.51	0.45	0.88

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

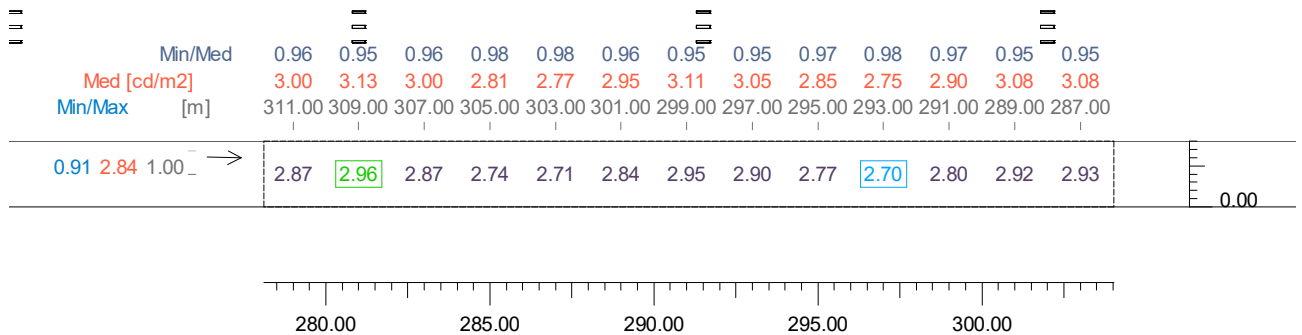


4.17 Valori delle Luminanze su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 2)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.96 cd/m ²	2.70 cd/m ²	3.29 cd/m ²	0.91	0.82	0.90

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

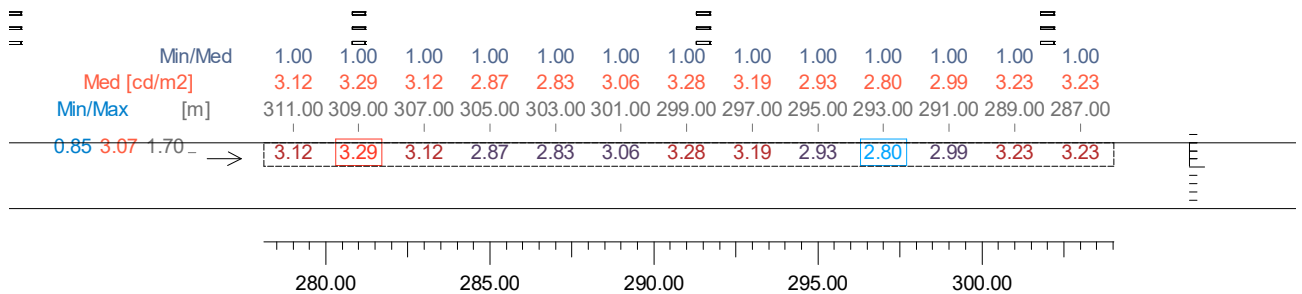


4.18 Valori delle Luminanze su: Parete Virtuale Destra [UI,pd (Tangenziale, Sezione 2)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.07 cd/m2	2.80 cd/m2	3.29 cd/m2	0.91	0.85	0.93

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

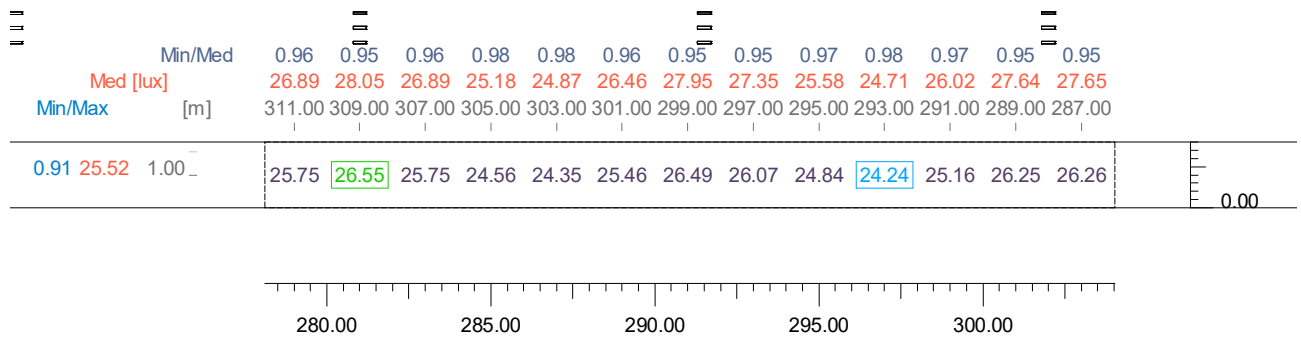


4.19 Valori di Illuminamento su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	26.56 lx	24.24 lx	29.56 lx	0.91	0.82	0.90

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

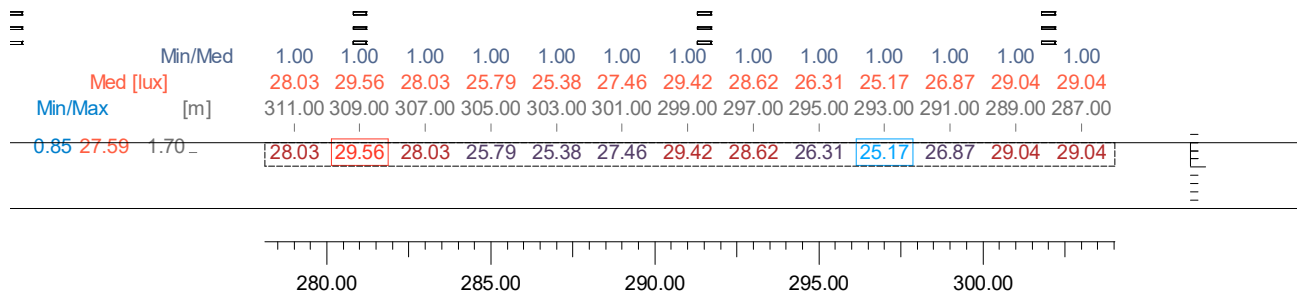


4.20 Valori di Illuminamento su: Parete Virtuale Destra [UI,pd (Tangenziale, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	27.59 lx	25.17 lx	29.56 lx	0.91	0.85	0.93

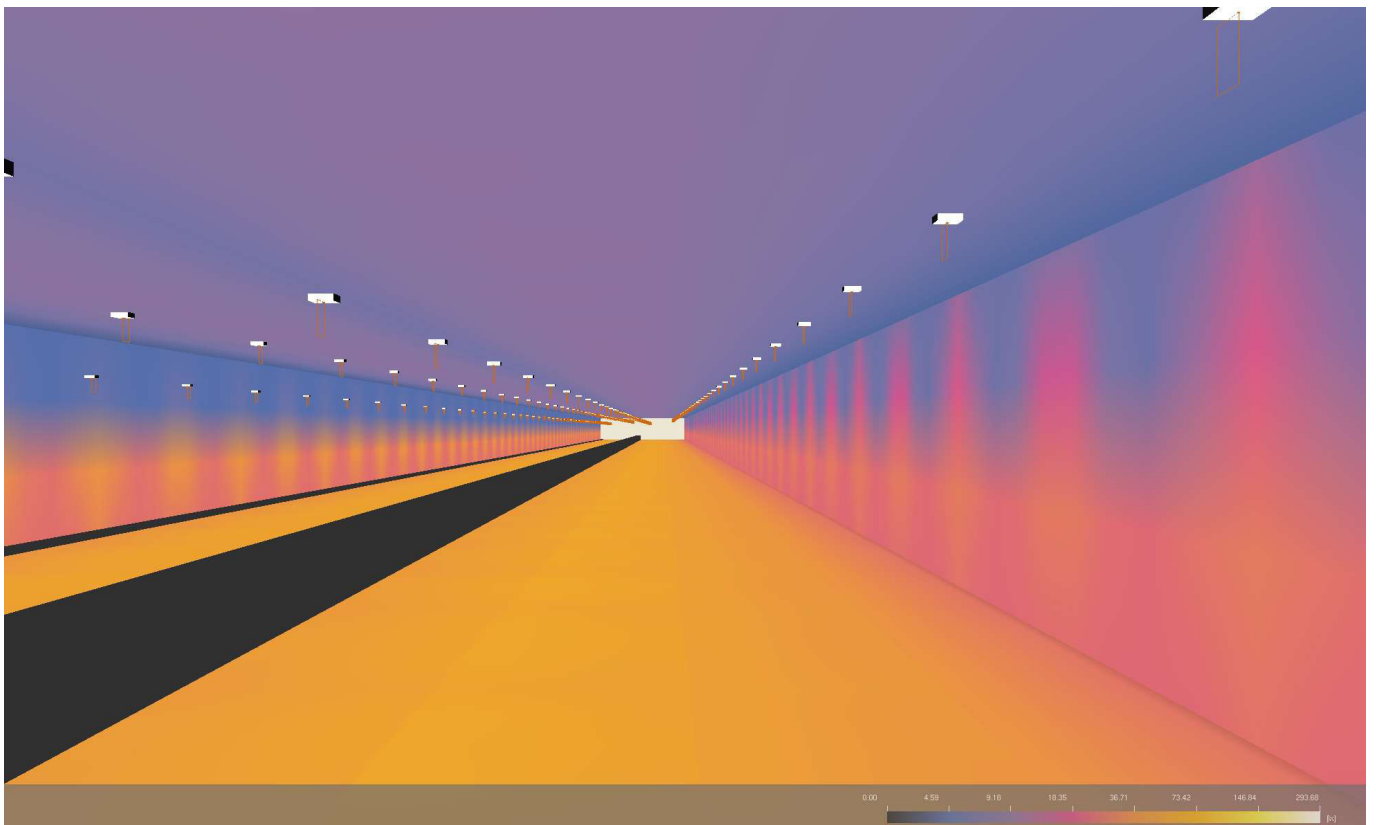
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

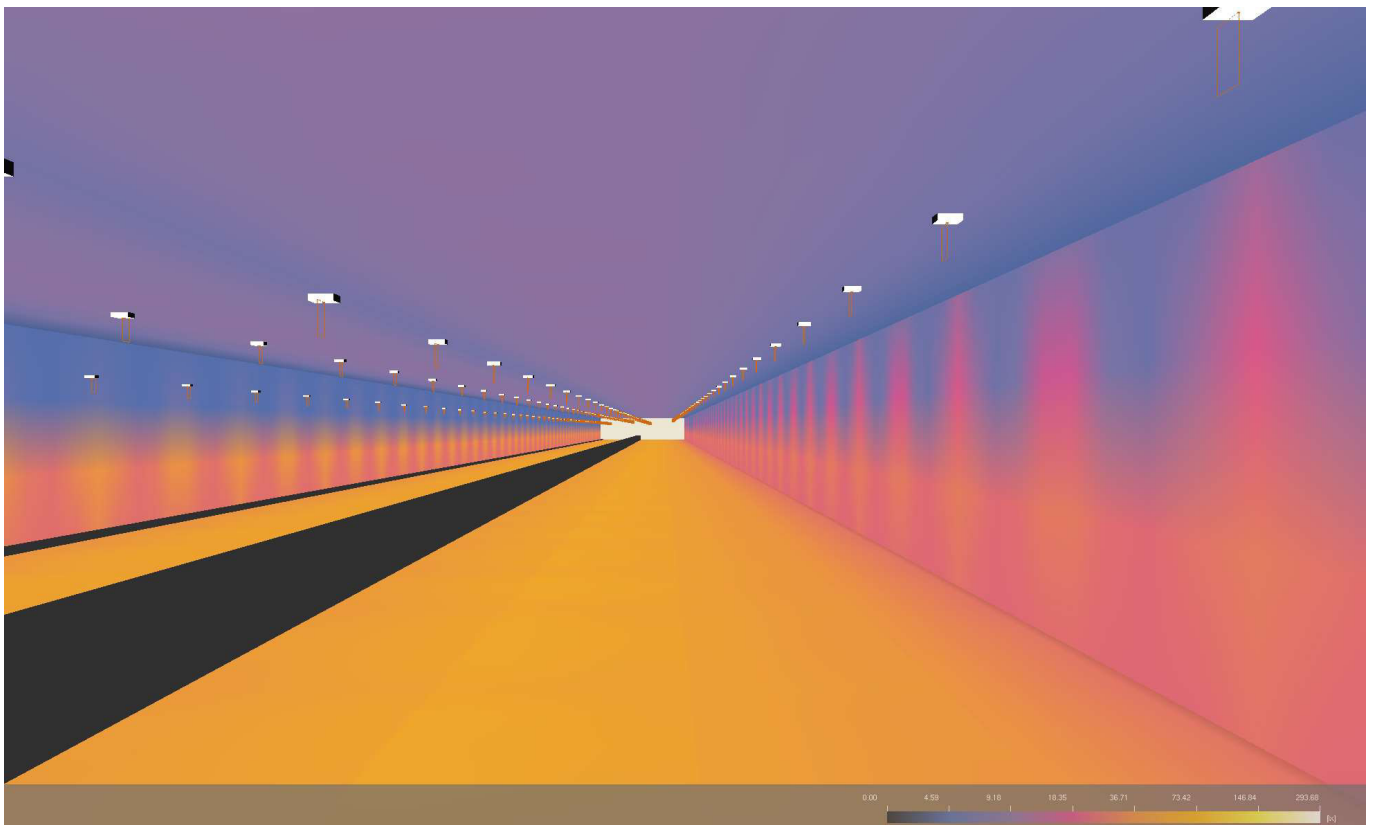


5. Immagini

5.1 Immagini



5.2 Immagini



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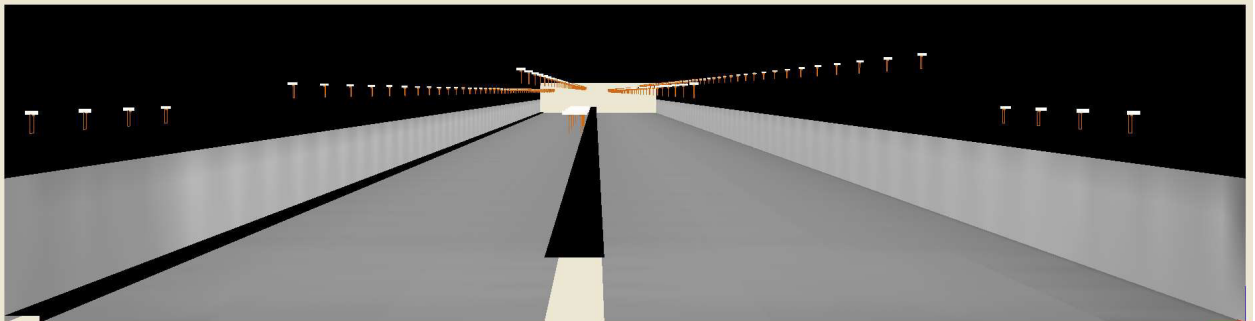
Galleria San Donnino

Note Installazione: Permanente - Autostrada - Sezione 2
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 17/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria 6.61m
Fattore di manutenzione 80%
H. corpi illuminanti come da tabella sotto

Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

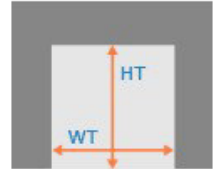
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

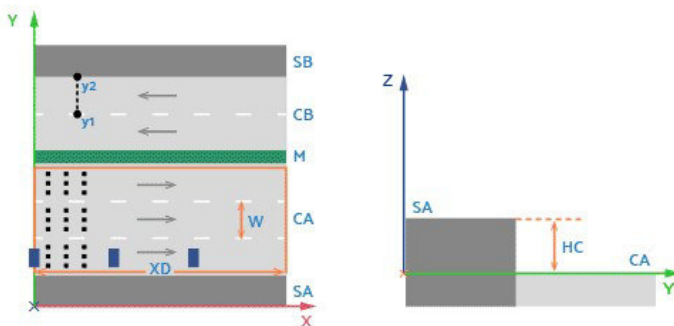
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice
Larghezza (WT) 25.81 m
Altezza (HT) 6.61 m
Alt.Parete Attiva 3.00 m
Col.Parete Attiva (255,255,255) 35%
Colore Soffitto (0,0,0) 0%

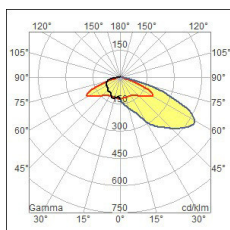


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Carreggiata	Carrabile	Corsia d'Emergenz	--->	2.84	0.00	2.84	3	3	0.00	C2	0.0560
2. Tangenziale	Carrabile			10.50	2.84	13.34	7		0.00	C2	0.0560
	2.1	Corsia 1	--->	3.50	2.84	6.34		3			
	2.2	Corsia 2	--->	3.50	6.34	9.84		3			
	2.3	Corsia 3	--->	3.50	9.84	13.34		3			
3. Mediana Centra	Secondaria	Mediana Centrale	--->	1.25	13.34	14.59	3	3	1.35		0.0000
4. Autostrada A14	Carrabile			10.50	14.59	25.09	7		0.00	C2	0.0560
	4.1	Corsia 1	--->	3.50	14.59	18.09		3			
	4.2	Corsia 2	--->	3.50	18.09	21.59		3			
	4.3	Corsia 3	--->	3.50	21.59	25.09		3			
5. Marciapiede B	Pista Ciclo/Pedona	Marciapiede	--->	0.72	25.09	25.81	3	3	0.15		0.3000

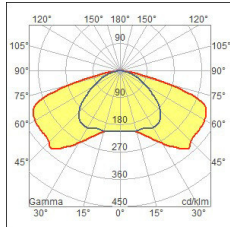


1.2 Informazioni Apparecchi/Rilievi

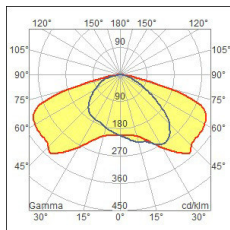
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	3101.00	0.80	100 %	255,255,255	16	Sorg-A	1



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coef. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	108	Sorg-B	1



C	Detas SpA Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	4452.00	0.80	100 %	255,255,255	108	Sorg-C	1
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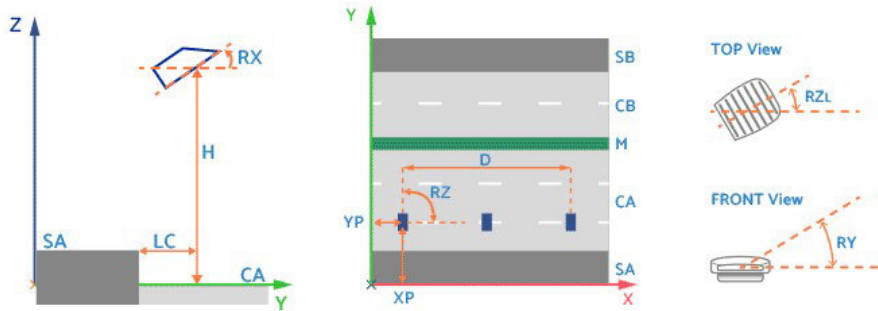


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		16D440 22W	16D440 22W	22.00	0.0000	3101	6000	16
Sorg-B		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	108
Sorg-C		16D600 30W	16D600 30W	30.00	0.0000	4452	6000	108

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altezz.App. [m] (H)	Num. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila A	A		2.00	2.00	4.31	4	6.50	0.00	19.50	0	0	0
Fila B	A		2.00	13.84	4.31	4	6.50	0.00	19.50	0	180	-0
Fila B	A		2.00	14.09	4.31	4	6.50	0.00	19.50	0	0	-0
Fila B	A		2.00	25.59	4.31	4	6.50	0.00	19.50	0	180	-0
Fila B	B		29.00	3.50	5.90	54	10.50	0.00	556.50	0	0	-0
Fila B	C		29.00	10.50	5.00	54	10.50	0.00	556.50	0	180	-0
Fila B	C		29.00	15.81	5.45	54	10.50	0.00	556.50	0	0	-0
Fila B	B		29.00	22.81	5.00	54	10.50	0.00	556.50	0	0	-0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Carreggiata	Risultati	LAV = 1.83 cd/m ²	Uo(L) = 0.33	UL = 0.36	fTI = 6 %
	Oss. 1) [x=-60.00 y=1.42] m Oss.Ti [x=90.27 y=1.42] m Lv = 0.18	LAV = 1.83 cd/m ² *	Uo(L) = 0.33 *	UL = 0.36 *	fTI = 5.63 % *
2 - Tangenziale	Risultati	LAV = 2.61 cd/m ²	Uo(L) = 0.33	UL = 0.31	fTI = 6 %
	Oss. 1) [x=-60.00 y=4.59] m	LAV = 2.62 cd/m ²	Uo(L) = 0.33 *	UL = 0.31 *	fTI = 5.60 % fTI = 6.16 % fTI = 6.20 % *
	Oss. 2) [x=-60.00 y=8.09] m	LAV = 2.62 cd/m ²	Uo(L) = 0.33	UL = 0.41	
	Oss. 3) [x=-60.00 y=11.59] m	LAV = 2.61 cd/m ² *	Uo(L) = 0.33	UL = 0.32	
	Oss.Ti 1) [x=90.27 y=4.59] m				
Oss.Ti 2) [x=40.27 y=8.09] m Oss.Ti 3) [x=40.27 y=11.59] m Lv = 0.25					
4 - Autostrada A14	Risultati	LAV = 2.61 cd/m ²	Uo(L) = 0.34	UL = 0.30	fTI = 8 %
	Oss. 1) [x=-60.00 y=16.34] m	LAV = 2.61 cd/m ² *	Uo(L) = 0.34	UL = 0.30 *	fTI = 6.78 % fTI = 6.16 % fTI = 7.73 % *
	Oss. 2) [x=-60.00 y=19.84] m	LAV = 2.63 cd/m ²	Uo(L) = 0.34	UL = 0.41	
	Oss. 3) [x=-60.00 y=23.34] m	LAV = 2.64 cd/m ²	Uo(L) = 0.34 *	UL = 0.30	
	Oss.Ti 1) [x=28.27 y=16.34] m				
Oss.Ti 2) [x=574.27 y=19.84] m Oss.Ti 3) [x=40.27 y=23.34] m Lv = 0.31					
5 - Marciapiede B	Risultati	EAV = 35.9 lux	EMIN = 22.22 lux		

Riepilogo Uniformità di Luminan.

Sezione Permanente	[10.00..580.00] m	(Luminanza Costante)			
Parete Destra	LAV%,(pd/c,o1) = 158.1 %	LAV,pd=2.92 cd/m ²	Uo,pd=0.66	Ul,pd=0.58 (y=1.70 m)	
Parete Sinistra	LAV%,(ps/c,o1) = 187.4 %	LAV,ps=3.46 cd/m ²	Uo,ps=0.40	Ul,ps=0.33 (y=1.70 m)	
1 - Carreggiata	-->	LAV,c,o1=1.85 cd/m ²	Uo,c,o1=0.60	Ul,o1=0.81 (y=1.42 m)	
2 - Tangenziale	-->	LAV,c,o3=2.64 cd/m ²	Uo,c,o2=0.75	Ul,o1=0.72 (y=4.59 m)	
-->	Oss. 1) [x=-60.00 y=4.59] m	LAV,c,o1=2.64 cd/m ²	Uo,c,o1=0.75	Ul,o1=0.72 (y=4.59 m) *	
-->	Oss. 2) [x=-60.00 y=8.09] m	LAV,c,o2=2.65 cd/m ²	Uo,c,o2=0.75 *	Ul,o2=0.77 (y=8.09 m)	
-->	Oss. 3) [x=-60.00 y=11.59] m	LAV,c,o3=2.64 cd/m ² *	Uo,c,o3=0.76	Ul,o3=0.73 (y=11.59 m)	
4 - Autostrada A14	-->	LAV,c,o1=2.63 cd/m ²	Uo,c,o1=0.64	Ul,o1=0.69 (y=16.34 m)	
-->	Oss. 1) [x=-60.00 y=16.34] m	LAV,c,o1=2.63 cd/m ² *	Uo,c,o1=0.64 *	Ul,o1=0.69 (y=16.34 m)	
-->	Oss. 2) [x=-60.00 y=19.84] m	LAV,c,o2=2.66 cd/m ²	Uo,c,o2=0.69	Ul,o2=0.81 (y=19.84 m)	
-->	Oss. 3) [x=-60.00 y=23.34] m	LAV,c,o3=2.67 cd/m ²	Uo,c,o3=0.74	Ul,o3=0.74 (y=23.34 m)	
5 - Marciapiede B	LAV%,(ms/c,o1) = 186.5 %	LAV,ms,o1=3.44 cd/m ²	Uo,ms,o1=0.78	Ul,o1=0.78 (y=25.45 m)	

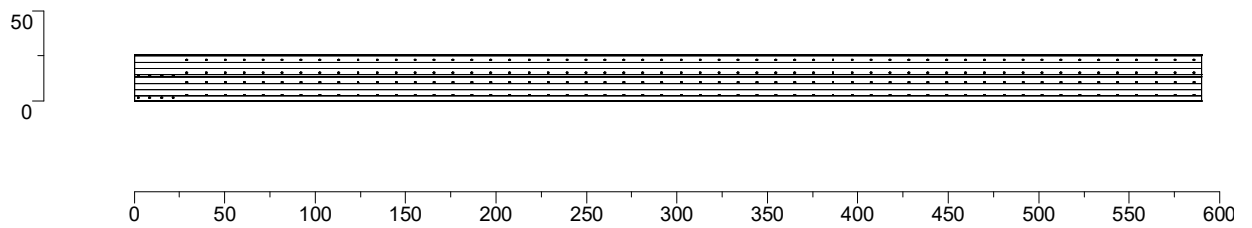
pd: Parete Destra ps: Parete Sinistra c: Carreggiata cm: Corsie di Marcia
md: Marciapiede Destro ms: Marciapiede Sinistro o: Osservatore

Inquinamento Luminoso

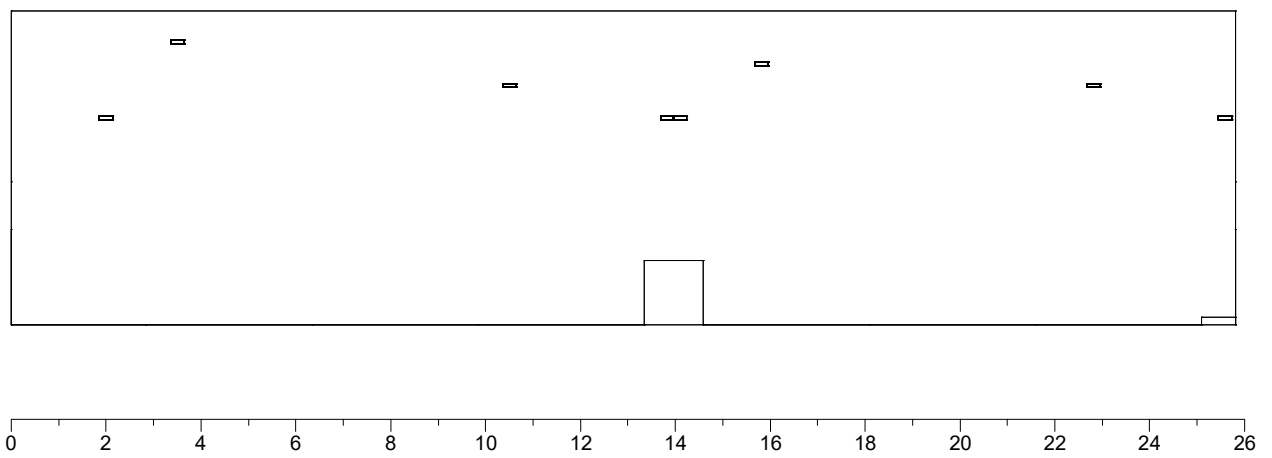
Rapporto Medio - Rn -
0.01 %

2. Viste Ambiente

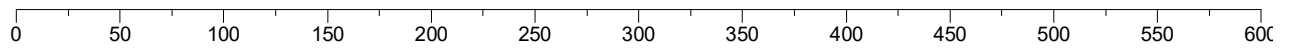
2.1 Vista 2D in Pianta



2.2 Vista Laterale

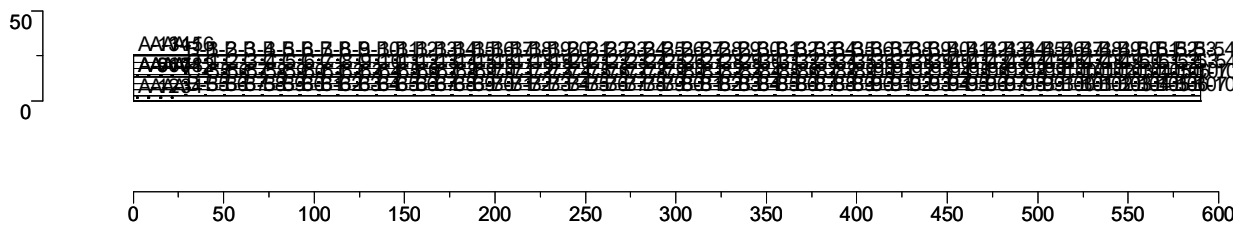


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	2.00	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-2	100 %	8.50	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-3	100 %	15.00	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-4	100 %	21.50	2.00	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-5	100 %	2.00	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-6	100 %	8.50	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-7	100 %	15.00	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-8	100 %	21.50	14.09	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
A-9	100 %	2.00	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-10	100 %	8.50	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-11	100 %	15.00	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-12	100 %	21.50	13.84	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-13	100 %	2.00	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-14	100 %	8.50	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-15	100 %	15.00	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
A-16	100 %	21.50	25.59	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-1	100 %	29.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-2	100 %	39.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-3	100 %	50.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-4	100 %	60.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-5	100 %	71.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-6	100 %	81.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-7	100 %	92.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-8	100 %	102.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-9	100 %	113.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-10	100 %	123.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-11	100 %	134.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-12	100 %	144.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-13	100 %	155.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-14	100 %	165.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-15	100 %	176.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-16	100 %	186.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-17	100 %	197.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-18	100 %	207.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-19	100 %	218.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-20	100 %	228.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-21	100 %	239.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-22	100 %	249.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-23	100 %	260.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-24	100 %	270.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-25	100 %	281.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-26	100 %	291.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-27	100 %	302.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-28	100 %	312.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-29	100 %	323.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-30	100 %	333.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-31	100 %	344.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-32	100 %	354.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-33	100 %	365.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-34	100 %	375.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-35	100 %	386.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-36	100 %	396.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-37	100 %	407.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-38	100 %	417.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-39	100 %	428.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-40	100 %	438.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-41	100 %	449.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-42	100 %	459.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-43	100 %	470.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-44	100 %	480.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-45	100 %	491.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-46	100 %	501.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-47	100 %	512.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-48	100 %	522.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-49	100 %	533.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-50	100 %	543.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-51	100 %	554.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
B-52	100 %	564.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-53	100 %	575.00	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-54	100 %	585.50	22.81	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-55	100 %	29.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-56	100 %	39.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-57	100 %	50.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-58	100 %	60.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-59	100 %	71.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-60	100 %	81.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-61	100 %	92.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-62	100 %	102.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-63	100 %	113.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-64	100 %	123.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-65	100 %	134.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-66	100 %	144.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-67	100 %	155.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-68	100 %	165.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-69	100 %	176.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-70	100 %	186.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-71	100 %	197.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-72	100 %	207.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-73	100 %	218.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-74	100 %	228.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-75	100 %	239.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-76	100 %	249.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-77	100 %	260.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-78	100 %	270.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-79	100 %	281.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-80	100 %	291.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-81	100 %	302.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-82	100 %	312.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-83	100 %	323.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-84	100 %	333.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-85	100 %	344.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-86	100 %	354.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-87	100 %	365.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-88	100 %	375.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-89	100 %	386.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-90	100 %	396.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-91	100 %	407.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-92	100 %	417.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-93	100 %	428.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-94	100 %	438.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-95	100 %	449.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-96	100 %	459.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-97	100 %	470.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-98	100 %	480.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-99	100 %	491.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-100	100 %	501.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-101	100 %	512.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-102	100 %	522.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-103	100 %	533.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-104	100 %	543.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-105	100 %	554.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-106	100 %	564.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-107	100 %	575.00	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-108	100 %	585.50	3.50	5.90	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-1	100 %	29.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-2	100 %	39.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-3	100 %	50.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-4	100 %	60.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-5	100 %	71.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-6	100 %	81.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-7	100 %	92.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-8	100 %	102.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-9	100 %	113.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-10	100 %	123.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-11	100 %	134.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-12	100 %	144.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-13	100 %	155.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
C-14	100 %	165.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-15	100 %	176.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-16	100 %	186.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-17	100 %	197.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-18	100 %	207.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-19	100 %	218.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-20	100 %	228.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-21	100 %	239.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-22	100 %	249.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-23	100 %	260.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-24	100 %	270.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-25	100 %	281.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-26	100 %	291.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-27	100 %	302.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-28	100 %	312.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-29	100 %	323.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-30	100 %	333.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-31	100 %	344.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-32	100 %	354.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-33	100 %	365.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-34	100 %	375.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-35	100 %	386.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-36	100 %	396.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-37	100 %	407.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-38	100 %	417.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-39	100 %	428.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-40	100 %	438.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-41	100 %	449.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-42	100 %	459.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-43	100 %	470.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-44	100 %	480.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-45	100 %	491.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-46	100 %	501.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-47	100 %	512.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-48	100 %	522.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-49	100 %	533.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-50	100 %	543.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-51	100 %	554.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-52	100 %	564.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-53	100 %	575.00	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-54	100 %	585.50	15.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
C-55	100 %	29.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-56	100 %	39.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-57	100 %	50.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-58	100 %	60.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-59	100 %	71.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-60	100 %	81.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-61	100 %	92.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-62	100 %	102.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-63	100 %	113.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-64	100 %	123.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-65	100 %	134.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-66	100 %	144.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-67	100 %	155.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-68	100 %	165.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-69	100 %	176.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-70	100 %	186.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-71	100 %	197.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-72	100 %	207.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-73	100 %	218.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-74	100 %	228.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-75	100 %	239.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-76	100 %	249.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-77	100 %	260.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-78	100 %	270.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-79	100 %	281.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-80	100 %	291.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-81	100 %	302.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-82	100 %	312.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-83	100 %	323.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
C-84	100 %	333.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-85	100 %	344.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-86	100 %	354.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-87	100 %	365.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-88	100 %	375.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-89	100 %	386.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-90	100 %	396.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-91	100 %	407.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-92	100 %	417.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-93	100 %	428.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-94	100 %	438.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-95	100 %	449.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-96	100 %	459.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-97	100 %	470.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-98	100 %	480.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-99	100 %	491.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-100	100 %	501.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-101	100 %	512.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-102	100 %	522.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-103	100 %	533.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-104	100 %	543.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-105	100 %	554.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-106	100 %	564.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-107	100 %	575.00	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-108	100 %	585.50	10.50	5.00	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8S 16D440_W201A	100 %	2.00	2.00	4.31	0.0	-0.0	0.0	2.00	2.00	0.00	0.0
A-2		Radiant 8S 16D440_W201A	100 %	8.50	2.00	4.31	0.0	-0.0	0.0	8.50	2.00	0.00	0.0
A-3		Radiant 8S 16D440_W201A	100 %	15.00	2.00	4.31	0.0	-0.0	0.0	15.00	2.00	0.00	0.0
A-4		Radiant 8S 16D440_W201A	100 %	21.50	2.00	4.31	0.0	-0.0	0.0	21.50	2.00	0.00	0.0
A-5		Radiant 8S 16D440_W201A	100 %	2.00	14.09	4.31	0.0	-0.0	0.0	2.00	14.09	0.00	0.0
A-6		Radiant 8S 16D440_W201A	100 %	8.50	14.09	4.31	0.0	-0.0	0.0	8.50	14.09	0.00	0.0
A-7		Radiant 8S 16D440_W201A	100 %	15.00	14.09	4.31	0.0	-0.0	0.0	15.00	14.09	0.00	0.0
A-8		Radiant 8S 16D440_W201A	100 %	21.50	14.09	4.31	0.0	-0.0	0.0	21.50	14.09	0.00	0.0
A-9		Radiant 8S 16D440_W201A	100 %	2.00	13.84	4.31	0.0	-0.0	180.0	2.00	13.84	0.00	0.0
A-10		Radiant 8S 16D440_W201A	100 %	8.50	13.84	4.31	0.0	-0.0	180.0	8.50	13.84	0.00	0.0
A-11		Radiant 8S 16D440_W201A	100 %	15.00	13.84	4.31	0.0	-0.0	180.0	15.00	13.84	0.00	0.0
A-12		Radiant 8S 16D440_W201A	100 %	21.50	13.84	4.31	0.0	-0.0	180.0	21.50	13.84	0.00	0.0
A-13		Radiant 8S 16D440_W201A	100 %	2.00	25.59	4.31	0.0	-0.0	180.0	2.00	25.59	0.00	0.0
A-14		Radiant 8S 16D440_W201A	100 %	8.50	25.59	4.31	0.0	-0.0	180.0	8.50	25.59	0.00	0.0
A-15		Radiant 8S 16D440_W201A	100 %	15.00	25.59	4.31	0.0	-0.0	180.0	15.00	25.59	0.00	0.0
A-16		Radiant 8S 16D440_W201A	100 %	21.50	25.59	4.31	0.0	-0.0	180.0	21.50	25.59	0.00	0.0
B-1		Radiant 8S 16D700_W244S	100 %	29.00	22.81	5.00	0.0	-0.0	0.0	29.00	22.81	0.00	0.0
B-2		Radiant 8S 16D700_W244S	100 %	39.50	22.81	5.00	0.0	-0.0	0.0	39.50	22.81	0.00	0.0
B-3		Radiant 8S 16D700_W244S	100 %	50.00	22.81	5.00	0.0	-0.0	0.0	50.00	22.81	0.00	0.0
B-4		Radiant 8S 16D700_W244S	100 %	60.50	22.81	5.00	0.0	-0.0	0.0	60.50	22.81	0.00	0.0
B-5		Radiant 8S 16D700_W244S	100 %	71.00	22.81	5.00	0.0	-0.0	0.0	71.00	22.81	0.00	0.0
B-6		Radiant 8S 16D700_W244S	100 %	81.50	22.81	5.00	0.0	-0.0	0.0	81.50	22.81	0.00	0.0
B-7		Radiant 8S 16D700_W244S	100 %	92.00	22.81	5.00	0.0	-0.0	0.0	92.00	22.81	0.00	0.0
B-8		Radiant 8S 16D700_W244S	100 %	102.50	22.81	5.00	0.0	-0.0	0.0	102.50	22.81	0.00	0.0
B-9		Radiant 8S 16D700_W244S	100 %	113.00	22.81	5.00	0.0	-0.0	0.0	113.00	22.81	0.00	0.0
B-10		Radiant 8S 16D700_W244S	100 %	123.50	22.81	5.00	0.0	-0.0	0.0	123.50	22.81	0.00	0.0
B-11		Radiant 8S 16D700_W244S	100 %	134.00	22.81	5.00	0.0	-0.0	0.0	134.00	22.81	0.00	0.0
B-12		Radiant 8S 16D700_W244S	100 %	144.50	22.81	5.00	0.0	-0.0	0.0	144.50	22.81	0.00	0.0
B-13		Radiant 8S 16D700_W244S	100 %	155.00	22.81	5.00	0.0	-0.0	0.0	155.00	22.81	0.00	0.0
B-14		Radiant 8S 16D700_W244S	100 %	165.50	22.81	5.00	0.0	-0.0	0.0	165.50	22.81	0.00	0.0
B-15		Radiant 8S 16D700_W244S	100 %	176.00	22.81	5.00	0.0	-0.0	0.0	176.00	22.81	0.00	0.0
B-16		Radiant 8S 16D700_W244S	100 %	186.50	22.81	5.00	0.0	-0.0	0.0	186.50	22.81	0.00	0.0
B-17		Radiant 8S 16D700_W244S	100 %	197.00	22.81	5.00	0.0	-0.0	0.0	197.00	22.81	0.00	0.0
B-18		Radiant 8S 16D700_W244S	100 %	207.50	22.81	5.00	0.0	-0.0	0.0	207.50	22.81	0.00	0.0
B-19		Radiant 8S 16D700_W244S	100 %	218.00	22.81	5.00	0.0	-0.0	0.0	218.00	22.81	0.00	0.0
B-20		Radiant 8S 16D700_W244S	100 %	228.50	22.81	5.00	0.0	-0.0	0.0	228.50	22.81	0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
B-21		Radiant 8S 16D700_W244S	100 %	239.00	22.81	5.00	0.0	-0.0	0.0	239.00	22.81	0.00	0.0
B-22		Radiant 8S 16D700_W244S	100 %	249.50	22.81	5.00	0.0	-0.0	0.0	249.50	22.81	0.00	0.0
B-23		Radiant 8S 16D700_W244S	100 %	260.00	22.81	5.00	0.0	-0.0	0.0	260.00	22.81	0.00	0.0
B-24		Radiant 8S 16D700_W244S	100 %	270.50	22.81	5.00	0.0	-0.0	0.0	270.50	22.81	0.00	0.0
B-25		Radiant 8S 16D700_W244S	100 %	281.00	22.81	5.00	0.0	-0.0	0.0	281.00	22.81	0.00	0.0
B-26		Radiant 8S 16D700_W244S	100 %	291.50	22.81	5.00	0.0	-0.0	0.0	291.50	22.81	0.00	0.0
B-27		Radiant 8S 16D700_W244S	100 %	302.00	22.81	5.00	0.0	-0.0	0.0	302.00	22.81	0.00	0.0
B-28		Radiant 8S 16D700_W244S	100 %	312.50	22.81	5.00	0.0	-0.0	0.0	312.50	22.81	0.00	0.0
B-29		Radiant 8S 16D700_W244S	100 %	323.00	22.81	5.00	0.0	-0.0	0.0	323.00	22.81	0.00	0.0
B-30		Radiant 8S 16D700_W244S	100 %	333.50	22.81	5.00	0.0	-0.0	0.0	333.50	22.81	0.00	0.0
B-31		Radiant 8S 16D700_W244S	100 %	344.00	22.81	5.00	0.0	-0.0	0.0	344.00	22.81	0.00	0.0
B-32		Radiant 8S 16D700_W244S	100 %	354.50	22.81	5.00	0.0	-0.0	0.0	354.50	22.81	0.00	0.0
B-33		Radiant 8S 16D700_W244S	100 %	365.00	22.81	5.00	0.0	-0.0	0.0	365.00	22.81	0.00	0.0
B-34		Radiant 8S 16D700_W244S	100 %	375.50	22.81	5.00	0.0	-0.0	0.0	375.50	22.81	0.00	0.0
B-35		Radiant 8S 16D700_W244S	100 %	386.00	22.81	5.00	0.0	-0.0	0.0	386.00	22.81	0.00	0.0
B-36		Radiant 8S 16D700_W244S	100 %	396.50	22.81	5.00	0.0	-0.0	0.0	396.50	22.81	0.00	0.0
B-37		Radiant 8S 16D700_W244S	100 %	407.00	22.81	5.00	0.0	-0.0	0.0	407.00	22.81	0.00	0.0
B-38		Radiant 8S 16D700_W244S	100 %	417.50	22.81	5.00	0.0	-0.0	0.0	417.50	22.81	0.00	0.0
B-39		Radiant 8S 16D700_W244S	100 %	428.00	22.81	5.00	0.0	-0.0	0.0	428.00	22.81	0.00	0.0
B-40		Radiant 8S 16D700_W244S	100 %	438.50	22.81	5.00	0.0	-0.0	0.0	438.50	22.81	0.00	0.0
B-41		Radiant 8S 16D700_W244S	100 %	449.00	22.81	5.00	0.0	-0.0	0.0	449.00	22.81	0.00	0.0
B-42		Radiant 8S 16D700_W244S	100 %	459.50	22.81	5.00	0.0	-0.0	0.0	459.50	22.81	0.00	0.0
B-43		Radiant 8S 16D700_W244S	100 %	470.00	22.81	5.00	0.0	-0.0	0.0	470.00	22.81	0.00	0.0
B-44		Radiant 8S 16D700_W244S	100 %	480.50	22.81	5.00	0.0	-0.0	0.0	480.50	22.81	0.00	0.0
B-45		Radiant 8S 16D700_W244S	100 %	491.00	22.81	5.00	0.0	-0.0	0.0	491.00	22.81	0.00	0.0
B-46		Radiant 8S 16D700_W244S	100 %	501.50	22.81	5.00	0.0	-0.0	0.0	501.50	22.81	0.00	0.0
B-47		Radiant 8S 16D700_W244S	100 %	512.00	22.81	5.00	0.0	-0.0	0.0	512.00	22.81	0.00	0.0
B-48		Radiant 8S 16D700_W244S	100 %	522.50	22.81	5.00	0.0	-0.0	0.0	522.50	22.81	0.00	0.0
B-49		Radiant 8S 16D700_W244S	100 %	533.00	22.81	5.00	0.0	-0.0	0.0	533.00	22.81	0.00	0.0
B-50		Radiant 8S 16D700_W244S	100 %	543.50	22.81	5.00	0.0	-0.0	0.0	543.50	22.81	0.00	0.0
B-51		Radiant 8S 16D700_W244S	100 %	554.00	22.81	5.00	0.0	-0.0	0.0	554.00	22.81	0.00	0.0
B-52		Radiant 8S 16D700_W244S	100 %	564.50	22.81	5.00	0.0	-0.0	0.0	564.50	22.81	0.00	0.0
B-53		Radiant 8S 16D700_W244S	100 %	575.00	22.81	5.00	0.0	-0.0	0.0	575.00	22.81	0.00	0.0
B-54		Radiant 8S 16D700_W244S	100 %	585.50	22.81	5.00	0.0	-0.0	0.0	585.50	22.81	0.00	0.0
B-55		Radiant 8S 16D700_W244S	100 %	29.00	3.50	5.90	0.0	-0.0	0.0	29.00	3.50	-0.00	0.0
B-56		Radiant 8S 16D700_W244S	100 %	39.50	3.50	5.90	0.0	-0.0	0.0	39.50	3.50	-0.00	0.0
B-57		Radiant 8S 16D700_W244S	100 %	50.00	3.50	5.90	0.0	-0.0	0.0	50.00	3.50	-0.00	0.0
B-58		Radiant 8S 16D700_W244S	100 %	60.50	3.50	5.90	0.0	-0.0	0.0	60.50	3.50	-0.00	0.0
B-59		Radiant 8S 16D700_W244S	100 %	71.00	3.50	5.90	0.0	-0.0	0.0	71.00	3.50	-0.00	0.0
B-60		Radiant 8S 16D700_W244S	100 %	81.50	3.50	5.90	0.0	-0.0	0.0	81.50	3.50	-0.00	0.0
B-61		Radiant 8S 16D700_W244S	100 %	92.00	3.50	5.90	0.0	-0.0	0.0	92.00	3.50	-0.00	0.0
B-62		Radiant 8S 16D700_W244S	100 %	102.50	3.50	5.90	0.0	-0.0	0.0	102.50	3.50	-0.00	0.0
B-63		Radiant 8S 16D700_W244S	100 %	113.00	3.50	5.90	0.0	-0.0	0.0	113.00	3.50	-0.00	0.0
B-64		Radiant 8S 16D700_W244S	100 %	123.50	3.50	5.90	0.0	-0.0	0.0	123.50	3.50	-0.00	0.0
B-65		Radiant 8S 16D700_W244S	100 %	134.00	3.50	5.90	0.0	-0.0	0.0	134.00	3.50	-0.00	0.0
B-66		Radiant 8S 16D700_W244S	100 %	144.50	3.50	5.90	0.0	-0.0	0.0	144.50	3.50	-0.00	0.0
B-67		Radiant 8S 16D700_W244S	100 %	155.00	3.50	5.90	0.0	-0.0	0.0	155.00	3.50	-0.00	0.0
B-68		Radiant 8S 16D700_W244S	100 %	165.50	3.50	5.90	0.0	-0.0	0.0	165.50	3.50	-0.00	0.0
B-69		Radiant 8S 16D700_W244S	100 %	176.00	3.50	5.90	0.0	-0.0	0.0	176.00	3.50	-0.00	0.0
B-70		Radiant 8S 16D700_W244S	100 %	186.50	3.50	5.90	0.0	-0.0	0.0	186.50	3.50	-0.00	0.0
B-71		Radiant 8S 16D700_W244S	100 %	197.00	3.50	5.90	0.0	-0.0	0.0	197.00	3.50	-0.00	0.0
B-72		Radiant 8S 16D700_W244S	100 %	207.50	3.50	5.90	0.0	-0.0	0.0	207.50	3.50	-0.00	0.0
B-73		Radiant 8S 16D700_W244S	100 %	218.00	3.50	5.90	0.0	-0.0	0.0	218.00	3.50	-0.00	0.0
B-74		Radiant 8S 16D700_W244S	100 %	228.50	3.50	5.90	0.0	-0.0	0.0	228.50	3.50	-0.00	0.0
B-75		Radiant 8S 16D700_W244S	100 %	239.00	3.50	5.90	0.0	-0.0	0.0	239.00	3.50	-0.00	0.0
B-76		Radiant 8S 16D700_W244S	100 %	249.50	3.50	5.90	0.0	-0.0	0.0	249.50	3.50	-0.00	0.0
B-77		Radiant 8S 16D700_W244S	100 %	260.00	3.50	5.90	0.0	-0.0	0.0	260.00	3.50	-0.00	0.0
B-78		Radiant 8S 16D700_W244S	100 %	270.50	3.50	5.90	0.0	-0.0	0.0	270.50	3.50	-0.00	0.0
B-79		Radiant 8S 16D700_W244S	100 %	281.00	3.50	5.90	0.0	-0.0	0.0	281.00	3.50	-0.00	0.0
B-80		Radiant 8S 16D700_W244S	100 %	291.50	3.50	5.90	0.0	-0.0	0.0	291.50	3.50	-0.00	0.0
B-81		Radiant 8S 16D700_W244S	100 %	302.00	3.50	5.90	0.0	-0.0	0.0	302.00	3.50	-0.00	0.0
B-82		Radiant 8S 16D700_W244S	100 %	312.50	3.50	5.90	0.0	-0.0	0.0	312.50	3.50	-0.00	0.0
B-83		Radiant 8S 16D700_W244S	100 %	323.00	3.50	5.90	0.0	-0.0	0.0	323.00	3.50	-0.00	0.0
B-84		Radiant 8S 16D700_W244S	100 %	333.50	3.50	5.90	0.0	-0.0	0.0	333.50	3.50	-0.00	0.0
B-85		Radiant 8S 16D700_W244S	100 %	344.00	3.50	5.90	0.0	-0.0	0.0	344.00	3.50	-0.00	0.0
B-86		Radiant 8S 16D700_W244S	100 %	354.50	3.50	5.90	0.0	-0.0	0.0	354.50	3.50	-0.00	0.0
B-87		Radiant 8S 16D700_W244S	100 %	365.00	3.50	5.90	0.0	-0.0	0.0	365.00	3.50	-0.00	0.0
B-88		Radiant 8S 16D700_W244S	100 %	375.50	3.50	5.90	0.0	-0.0	0.0	375.50	3.50	-0.00	0.0
B-89		Radiant 8S 16D700_W244S	100 %	386.00	3.50	5.90	0.0	-0.0	0.0	386.00	3.50	-0.00	0.0
B-90		Radiant 8S 16D700_W244S	100 %	396.50	3.50	5.90	0.0	-0.0	0.0	396.50	3.50	-0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
B-91		Radiant 8S 16D700_W244S	100 %	407.00	3.50	5.90	0.0	-0.0	0.0	407.00	3.50	-0.00	0.0
B-92		Radiant 8S 16D700_W244S	100 %	417.50	3.50	5.90	0.0	-0.0	0.0	417.50	3.50	-0.00	0.0
B-93		Radiant 8S 16D700_W244S	100 %	428.00	3.50	5.90	0.0	-0.0	0.0	428.00	3.50	-0.00	0.0
B-94		Radiant 8S 16D700_W244S	100 %	438.50	3.50	5.90	0.0	-0.0	0.0	438.50	3.50	-0.00	0.0
B-95		Radiant 8S 16D700_W244S	100 %	449.00	3.50	5.90	0.0	-0.0	0.0	449.00	3.50	-0.00	0.0
B-96		Radiant 8S 16D700_W244S	100 %	459.50	3.50	5.90	0.0	-0.0	0.0	459.50	3.50	-0.00	0.0
B-97		Radiant 8S 16D700_W244S	100 %	470.00	3.50	5.90	0.0	-0.0	0.0	470.00	3.50	-0.00	0.0
B-98		Radiant 8S 16D700_W244S	100 %	480.50	3.50	5.90	0.0	-0.0	0.0	480.50	3.50	-0.00	0.0
B-99		Radiant 8S 16D700_W244S	100 %	491.00	3.50	5.90	0.0	-0.0	0.0	491.00	3.50	-0.00	0.0
B-100		Radiant 8S 16D700_W244S	100 %	501.50	3.50	5.90	0.0	-0.0	0.0	501.50	3.50	-0.00	0.0
B-101		Radiant 8S 16D700_W244S	100 %	512.00	3.50	5.90	0.0	-0.0	0.0	512.00	3.50	-0.00	0.0
B-102		Radiant 8S 16D700_W244S	100 %	522.50	3.50	5.90	0.0	-0.0	0.0	522.50	3.50	-0.00	0.0
B-103		Radiant 8S 16D700_W244S	100 %	533.00	3.50	5.90	0.0	-0.0	0.0	533.00	3.50	-0.00	0.0
B-104		Radiant 8S 16D700_W244S	100 %	543.50	3.50	5.90	0.0	-0.0	0.0	543.50	3.50	-0.00	0.0
B-105		Radiant 8S 16D700_W244S	100 %	554.00	3.50	5.90	0.0	-0.0	0.0	554.00	3.50	-0.00	0.0
B-106		Radiant 8S 16D700_W244S	100 %	564.50	3.50	5.90	0.0	-0.0	0.0	564.50	3.50	-0.00	0.0
B-107		Radiant 8S 16D700_W244S	100 %	575.00	3.50	5.90	0.0	-0.0	0.0	575.00	3.50	-0.00	0.0
B-108		Radiant 8S 16D700_W244S	100 %	585.50	3.50	5.90	0.0	-0.0	0.0	585.50	3.50	-0.00	0.0
C-1		Radiant 8S 16D600_W279A	100 %	29.00	15.81	5.45	0.0	-0.0	0.0	29.00	15.81	0.00	0.0
C-2		Radiant 8S 16D600_W279A	100 %	39.50	15.81	5.45	0.0	-0.0	0.0	39.50	15.81	0.00	0.0
C-3		Radiant 8S 16D600_W279A	100 %	50.00	15.81	5.45	0.0	-0.0	0.0	50.00	15.81	0.00	0.0
C-4		Radiant 8S 16D600_W279A	100 %	60.50	15.81	5.45	0.0	-0.0	0.0	60.50	15.81	0.00	0.0
C-5		Radiant 8S 16D600_W279A	100 %	71.00	15.81	5.45	0.0	-0.0	0.0	71.00	15.81	0.00	0.0
C-6		Radiant 8S 16D600_W279A	100 %	81.50	15.81	5.45	0.0	-0.0	0.0	81.50	15.81	0.00	0.0
C-7		Radiant 8S 16D600_W279A	100 %	92.00	15.81	5.45	0.0	-0.0	0.0	92.00	15.81	0.00	0.0
C-8		Radiant 8S 16D600_W279A	100 %	102.50	15.81	5.45	0.0	-0.0	0.0	102.50	15.81	0.00	0.0
C-9		Radiant 8S 16D600_W279A	100 %	113.00	15.81	5.45	0.0	-0.0	0.0	113.00	15.81	0.00	0.0
C-10		Radiant 8S 16D600_W279A	100 %	123.50	15.81	5.45	0.0	-0.0	0.0	123.50	15.81	0.00	0.0
C-11		Radiant 8S 16D600_W279A	100 %	134.00	15.81	5.45	0.0	-0.0	0.0	134.00	15.81	0.00	0.0
C-12		Radiant 8S 16D600_W279A	100 %	144.50	15.81	5.45	0.0	-0.0	0.0	144.50	15.81	0.00	0.0
C-13		Radiant 8S 16D600_W279A	100 %	155.00	15.81	5.45	0.0	-0.0	0.0	155.00	15.81	0.00	0.0
C-14		Radiant 8S 16D600_W279A	100 %	165.50	15.81	5.45	0.0	-0.0	0.0	165.50	15.81	0.00	0.0
C-15		Radiant 8S 16D600_W279A	100 %	176.00	15.81	5.45	0.0	-0.0	0.0	176.00	15.81	0.00	0.0
C-16		Radiant 8S 16D600_W279A	100 %	186.50	15.81	5.45	0.0	-0.0	0.0	186.50	15.81	0.00	0.0
C-17		Radiant 8S 16D600_W279A	100 %	197.00	15.81	5.45	0.0	-0.0	0.0	197.00	15.81	0.00	0.0
C-18		Radiant 8S 16D600_W279A	100 %	207.50	15.81	5.45	0.0	-0.0	0.0	207.50	15.81	0.00	0.0
C-19		Radiant 8S 16D600_W279A	100 %	218.00	15.81	5.45	0.0	-0.0	0.0	218.00	15.81	0.00	0.0
C-20		Radiant 8S 16D600_W279A	100 %	228.50	15.81	5.45	0.0	-0.0	0.0	228.50	15.81	0.00	0.0
C-21		Radiant 8S 16D600_W279A	100 %	239.00	15.81	5.45	0.0	-0.0	0.0	239.00	15.81	0.00	0.0
C-22		Radiant 8S 16D600_W279A	100 %	249.50	15.81	5.45	0.0	-0.0	0.0	249.50	15.81	0.00	0.0
C-23		Radiant 8S 16D600_W279A	100 %	260.00	15.81	5.45	0.0	-0.0	0.0	260.00	15.81	0.00	0.0
C-24		Radiant 8S 16D600_W279A	100 %	270.50	15.81	5.45	0.0	-0.0	0.0	270.50	15.81	0.00	0.0
C-25		Radiant 8S 16D600_W279A	100 %	281.00	15.81	5.45	0.0	-0.0	0.0	281.00	15.81	0.00	0.0
C-26		Radiant 8S 16D600_W279A	100 %	291.50	15.81	5.45	0.0	-0.0	0.0	291.50	15.81	0.00	0.0
C-27		Radiant 8S 16D600_W279A	100 %	302.00	15.81	5.45	0.0	-0.0	0.0	302.00	15.81	0.00	0.0
C-28		Radiant 8S 16D600_W279A	100 %	312.50	15.81	5.45	0.0	-0.0	0.0	312.50	15.81	0.00	0.0
C-29		Radiant 8S 16D600_W279A	100 %	323.00	15.81	5.45	0.0	-0.0	0.0	323.00	15.81	0.00	0.0
C-30		Radiant 8S 16D600_W279A	100 %	333.50	15.81	5.45	0.0	-0.0	0.0	333.50	15.81	0.00	0.0
C-31		Radiant 8S 16D600_W279A	100 %	344.00	15.81	5.45	0.0	-0.0	0.0	344.00	15.81	0.00	0.0
C-32		Radiant 8S 16D600_W279A	100 %	354.50	15.81	5.45	0.0	-0.0	0.0	354.50	15.81	0.00	0.0
C-33		Radiant 8S 16D600_W279A	100 %	365.00	15.81	5.45	0.0	-0.0	0.0	365.00	15.81	0.00	0.0
C-34		Radiant 8S 16D600_W279A	100 %	375.50	15.81	5.45	0.0	-0.0	0.0	375.50	15.81	0.00	0.0
C-35		Radiant 8S 16D600_W279A	100 %	386.00	15.81	5.45	0.0	-0.0	0.0	386.00	15.81	0.00	0.0
C-36		Radiant 8S 16D600_W279A	100 %	396.50	15.81	5.45	0.0	-0.0	0.0	396.50	15.81	0.00	0.0
C-37		Radiant 8S 16D600_W279A	100 %	407.00	15.81	5.45	0.0	-0.0	0.0	407.00	15.81	0.00	0.0
C-38		Radiant 8S 16D600_W279A	100 %	417.50	15.81	5.45	0.0	-0.0	0.0	417.50	15.81	0.00	0.0
C-39		Radiant 8S 16D600_W279A	100 %	428.00	15.81	5.45	0.0	-0.0	0.0	428.00	15.81	0.00	0.0
C-40		Radiant 8S 16D600_W279A	100 %	438.50	15.81	5.45	0.0	-0.0	0.0	438.50	15.81	0.00	0.0
C-41		Radiant 8S 16D600_W279A	100 %	449.00	15.81	5.45	0.0	-0.0	0.0	449.00	15.81	0.00	0.0
C-42		Radiant 8S 16D600_W279A	100 %	459.50	15.81	5.45	0.0	-0.0	0.0	459.50	15.81	0.00	0.0
C-43		Radiant 8S 16D600_W279A	100 %	470.00	15.81	5.45	0.0	-0.0	0.0	470.00	15.81	0.00	0.0
C-44		Radiant 8S 16D600_W279A	100 %	480.50	15.81	5.45	0.0	-0.0	0.0	480.50	15.81	0.00	0.0
C-45		Radiant 8S 16D600_W279A	100 %	491.00	15.81	5.45	0.0	-0.0	0.0	491.00	15.81	0.00	0.0
C-46		Radiant 8S 16D600_W279A	100 %	501.50	15.81	5.45	0.0	-0.0	0.0	501.50	15.81	0.00	0.0
C-47		Radiant 8S 16D600_W279A	100 %	512.00	15.81	5.45	0.0	-0.0	0.0	512.00	15.81	0.00	0.0
C-48		Radiant 8S 16D600_W279A	100 %	522.50	15.81	5.45	0.0	-0.0	0.0	522.50	15.81	0.00	0.0
C-49		Radiant 8S 16D600_W279A	100 %	533.00	15.81	5.45	0.0	-0.0	0.0	533.00	15.81	0.00	0.0
C-50		Radiant 8S 16D600_W279A	100 %	543.50	15.81	5.45	0.0	-0.0	0.0	543.50	15.81	0.00	0.0
C-51		Radiant 8S 16D600_W279A	100 %	554.00	15.81	5.45	0.0	-0.0	0.0	554.00	15.81	0.00	0.0
C-52		Radiant 8S 16D600_W279A	100 %	564.50	15.81	5.45	0.0	-0.0	0.0	564.50	15.81	0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
C-53		Radiant 8S 16D600_W279A	100 %	575.00	15.81	5.45	0.0	-0.0	0.0	575.00	15.81	0.00	0.0
C-54		Radiant 8S 16D600_W279A	100 %	585.50	15.81	5.45	0.0	-0.0	0.0	585.50	15.81	0.00	0.0
C-55		Radiant 8S 16D600_W279A	100 %	29.00	10.50	5.00	0.0	-0.0	180.0	29.00	10.50	0.00	0.0
C-56		Radiant 8S 16D600_W279A	100 %	39.50	10.50	5.00	0.0	-0.0	180.0	39.50	10.50	0.00	0.0
C-57		Radiant 8S 16D600_W279A	100 %	50.00	10.50	5.00	0.0	-0.0	180.0	50.00	10.50	0.00	0.0
C-58		Radiant 8S 16D600_W279A	100 %	60.50	10.50	5.00	0.0	-0.0	180.0	60.50	10.50	0.00	0.0
C-59		Radiant 8S 16D600_W279A	100 %	71.00	10.50	5.00	0.0	-0.0	180.0	71.00	10.50	0.00	0.0
C-60		Radiant 8S 16D600_W279A	100 %	81.50	10.50	5.00	0.0	-0.0	180.0	81.50	10.50	0.00	0.0
C-61		Radiant 8S 16D600_W279A	100 %	92.00	10.50	5.00	0.0	-0.0	180.0	92.00	10.50	0.00	0.0
C-62		Radiant 8S 16D600_W279A	100 %	102.50	10.50	5.00	0.0	-0.0	180.0	102.50	10.50	0.00	0.0
C-63		Radiant 8S 16D600_W279A	100 %	113.00	10.50	5.00	0.0	-0.0	180.0	113.00	10.50	0.00	0.0
C-64		Radiant 8S 16D600_W279A	100 %	123.50	10.50	5.00	0.0	-0.0	180.0	123.50	10.50	0.00	0.0
C-65		Radiant 8S 16D600_W279A	100 %	134.00	10.50	5.00	0.0	-0.0	180.0	134.00	10.50	0.00	0.0
C-66		Radiant 8S 16D600_W279A	100 %	144.50	10.50	5.00	0.0	-0.0	180.0	144.50	10.50	0.00	0.0
C-67		Radiant 8S 16D600_W279A	100 %	155.00	10.50	5.00	0.0	-0.0	180.0	155.00	10.50	0.00	0.0
C-68		Radiant 8S 16D600_W279A	100 %	165.50	10.50	5.00	0.0	-0.0	180.0	165.50	10.50	0.00	0.0
C-69		Radiant 8S 16D600_W279A	100 %	176.00	10.50	5.00	0.0	-0.0	180.0	176.00	10.50	0.00	0.0
C-70		Radiant 8S 16D600_W279A	100 %	186.50	10.50	5.00	0.0	-0.0	180.0	186.50	10.50	0.00	0.0
C-71		Radiant 8S 16D600_W279A	100 %	197.00	10.50	5.00	0.0	-0.0	180.0	197.00	10.50	0.00	0.0
C-72		Radiant 8S 16D600_W279A	100 %	207.50	10.50	5.00	0.0	-0.0	180.0	207.50	10.50	0.00	0.0
C-73		Radiant 8S 16D600_W279A	100 %	218.00	10.50	5.00	0.0	-0.0	180.0	218.00	10.50	0.00	0.0
C-74		Radiant 8S 16D600_W279A	100 %	228.50	10.50	5.00	0.0	-0.0	180.0	228.50	10.50	0.00	0.0
C-75		Radiant 8S 16D600_W279A	100 %	239.00	10.50	5.00	0.0	-0.0	180.0	239.00	10.50	0.00	0.0
C-76		Radiant 8S 16D600_W279A	100 %	249.50	10.50	5.00	0.0	-0.0	180.0	249.50	10.50	0.00	0.0
C-77		Radiant 8S 16D600_W279A	100 %	260.00	10.50	5.00	0.0	-0.0	180.0	260.00	10.50	0.00	0.0
C-78		Radiant 8S 16D600_W279A	100 %	270.50	10.50	5.00	0.0	-0.0	180.0	270.50	10.50	0.00	0.0
C-79		Radiant 8S 16D600_W279A	100 %	281.00	10.50	5.00	0.0	-0.0	180.0	281.00	10.50	0.00	0.0
C-80		Radiant 8S 16D600_W279A	100 %	291.50	10.50	5.00	0.0	-0.0	180.0	291.50	10.50	0.00	0.0
C-81		Radiant 8S 16D600_W279A	100 %	302.00	10.50	5.00	0.0	-0.0	180.0	302.00	10.50	0.00	0.0
C-82		Radiant 8S 16D600_W279A	100 %	312.50	10.50	5.00	0.0	-0.0	180.0	312.50	10.50	0.00	0.0
C-83		Radiant 8S 16D600_W279A	100 %	323.00	10.50	5.00	0.0	-0.0	180.0	323.00	10.50	0.00	0.0
C-84		Radiant 8S 16D600_W279A	100 %	333.50	10.50	5.00	0.0	-0.0	180.0	333.50	10.50	0.00	0.0
C-85		Radiant 8S 16D600_W279A	100 %	344.00	10.50	5.00	0.0	-0.0	180.0	344.00	10.50	0.00	0.0
C-86		Radiant 8S 16D600_W279A	100 %	354.50	10.50	5.00	0.0	-0.0	180.0	354.50	10.50	0.00	0.0
C-87		Radiant 8S 16D600_W279A	100 %	365.00	10.50	5.00	0.0	-0.0	180.0	365.00	10.50	0.00	0.0
C-88		Radiant 8S 16D600_W279A	100 %	375.50	10.50	5.00	0.0	-0.0	180.0	375.50	10.50	0.00	0.0
C-89		Radiant 8S 16D600_W279A	100 %	386.00	10.50	5.00	0.0	-0.0	180.0	386.00	10.50	0.00	0.0
C-90		Radiant 8S 16D600_W279A	100 %	396.50	10.50	5.00	0.0	-0.0	180.0	396.50	10.50	0.00	0.0
C-91		Radiant 8S 16D600_W279A	100 %	407.00	10.50	5.00	0.0	-0.0	180.0	407.00	10.50	0.00	0.0
C-92		Radiant 8S 16D600_W279A	100 %	417.50	10.50	5.00	0.0	-0.0	180.0	417.50	10.50	0.00	0.0
C-93		Radiant 8S 16D600_W279A	100 %	428.00	10.50	5.00	0.0	-0.0	180.0	428.00	10.50	0.00	0.0
C-94		Radiant 8S 16D600_W279A	100 %	438.50	10.50	5.00	0.0	-0.0	180.0	438.50	10.50	0.00	0.0
C-95		Radiant 8S 16D600_W279A	100 %	449.00	10.50	5.00	0.0	-0.0	180.0	449.00	10.50	0.00	0.0
C-96		Radiant 8S 16D600_W279A	100 %	459.50	10.50	5.00	0.0	-0.0	180.0	459.50	10.50	0.00	0.0
C-97		Radiant 8S 16D600_W279A	100 %	470.00	10.50	5.00	0.0	-0.0	180.0	470.00	10.50	0.00	0.0
C-98		Radiant 8S 16D600_W279A	100 %	480.50	10.50	5.00	0.0	-0.0	180.0	480.50	10.50	0.00	0.0
C-99		Radiant 8S 16D600_W279A	100 %	491.00	10.50	5.00	0.0	-0.0	180.0	491.00	10.50	0.00	0.0
C-100		Radiant 8S 16D600_W279A	100 %	501.50	10.50	5.00	0.0	-0.0	180.0	501.50	10.50	0.00	0.0
C-101		Radiant 8S 16D600_W279A	100 %	512.00	10.50	5.00	0.0	-0.0	180.0	512.00	10.50	0.00	0.0
C-102		Radiant 8S 16D600_W279A	100 %	522.50	10.50	5.00	0.0	-0.0	180.0	522.50	10.50	0.00	0.0
C-103		Radiant 8S 16D600_W279A	100 %	533.00	10.50	5.00	0.0	-0.0	180.0	533.00	10.50	0.00	0.0
C-104		Radiant 8S 16D600_W279A	100 %	543.50	10.50	5.00	0.0	-0.0	180.0	543.50	10.50	0.00	0.0
C-105		Radiant 8S 16D600_W279A	100 %	554.00	10.50	5.00	0.0	-0.0	180.0	554.00	10.50	0.00	0.0
C-106		Radiant 8S 16D600_W279A	100 %	564.50	10.50	5.00	0.0	-0.0	180.0	564.50	10.50	0.00	0.0
C-107		Radiant 8S 16D600_W279A	100 %	575.00	10.50	5.00	0.0	-0.0	180.0	575.00	10.50	0.00	0.0
C-108		Radiant 8S 16D600_W279A	100 %	585.50	10.50	5.00	0.0	-0.0	180.0	585.50	10.50	0.00	0.0

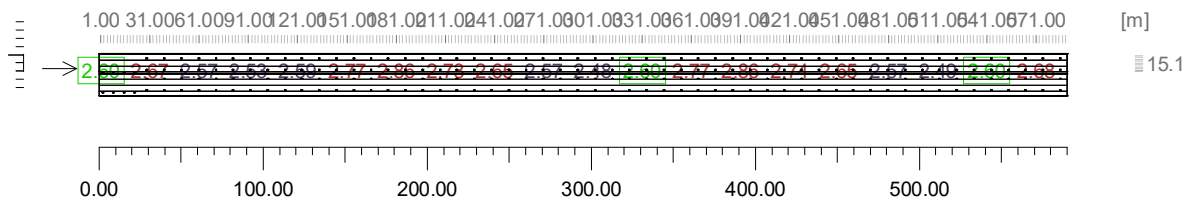
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 4 - Autostrada A14 - Oss. 1 [x=-60.00 y=16.34] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.61 cd/m2	0.90 cd/m2	3.74 cd/m2	0.34	0.24	0.70

Osservatore
Tipo Calcolo

[x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)

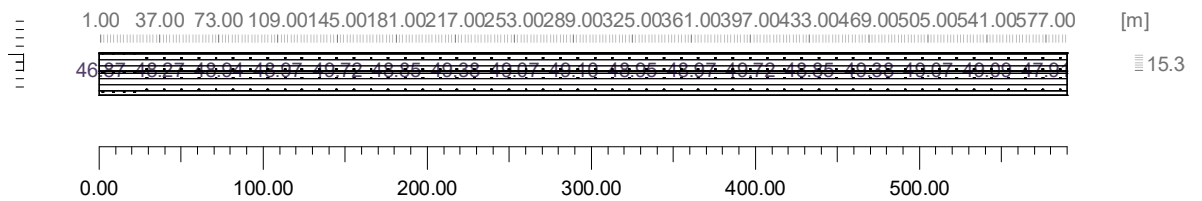


4.2 Valori di Illuminamento su: 4 - Autostrada A14

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	51.93 lx	30.06 lx	69.19 lx	0.58	0.43	0.75

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



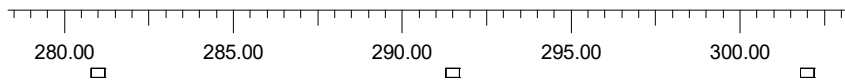
4.3 Valori delle Luminanze su: 4 - Autostrada A14 [Lp,c (Autostrada, Sezione 2)] - Oss. 1 [x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.62 cd/m2	1.72 cd/m2	3.39 cd/m2	0.66	0.51	0.77

Osservatore
Tipo Calcolo

[x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)

	0.76	0.74	0.76	0.76	0.75	0.77	0.75	0.76	0.76	0.76	0.78	0.70	0.69	Min/Med	
	2.57	2.52	2.63	2.73	2.75	2.62	2.53	2.59	2.72	2.75	2.67	2.47	2.51	Med [cd/m2]	
	279.00	281.00	283.00	285.00	287.00	289.00	291.00	293.00	295.00	297.00	299.00	301.00	303.00	[m]	Min/Max
25.00	1.96	1.87	2.00	2.07	2.07	2.02	1.90	1.96	2.08	2.08	2.08	1.72	1.72	24.51	1.96 0.83
22.50	2.62	2.53	2.69	2.88	2.93	2.71	2.57	2.65	2.88	2.91	2.79	2.21	2.28	23.34	2.66 0.76
	3.10	3.06	3.18	3.35	3.39	3.17	3.06	3.13	3.34	3.36	3.24	2.93	3.01	22.17	3.18 0.86
20.00	2.76	2.68	2.78	2.88	2.87	2.79	2.68	2.73	2.85	2.86	2.83	2.92	2.91	21.01	2.81 0.92
	2.41	2.35	2.44	2.46	2.45	2.41	2.37	2.40	2.46	2.45	2.43	2.47	2.43	19.84	2.43 0.95
	2.36	2.31	2.40	2.42	2.43	2.38	2.32	2.38	2.42	2.43	2.39	2.32	2.33	18.67	2.38 0.95
17.50	2.57	2.50	2.62	2.71	2.70	2.62	2.51	2.58	2.69	2.70	2.68	2.45	2.50	17.51	2.60 0.91
	2.82	2.79	2.91	3.05	3.09	2.88	2.78	2.86	3.03	3.07	2.95	2.77	2.83	16.34	2.91 0.90
15.00	2.57	2.55	2.66	2.79	2.83	2.62	2.55	2.63	2.76	2.87	2.67	2.48	2.55	15.17	2.66 0.87

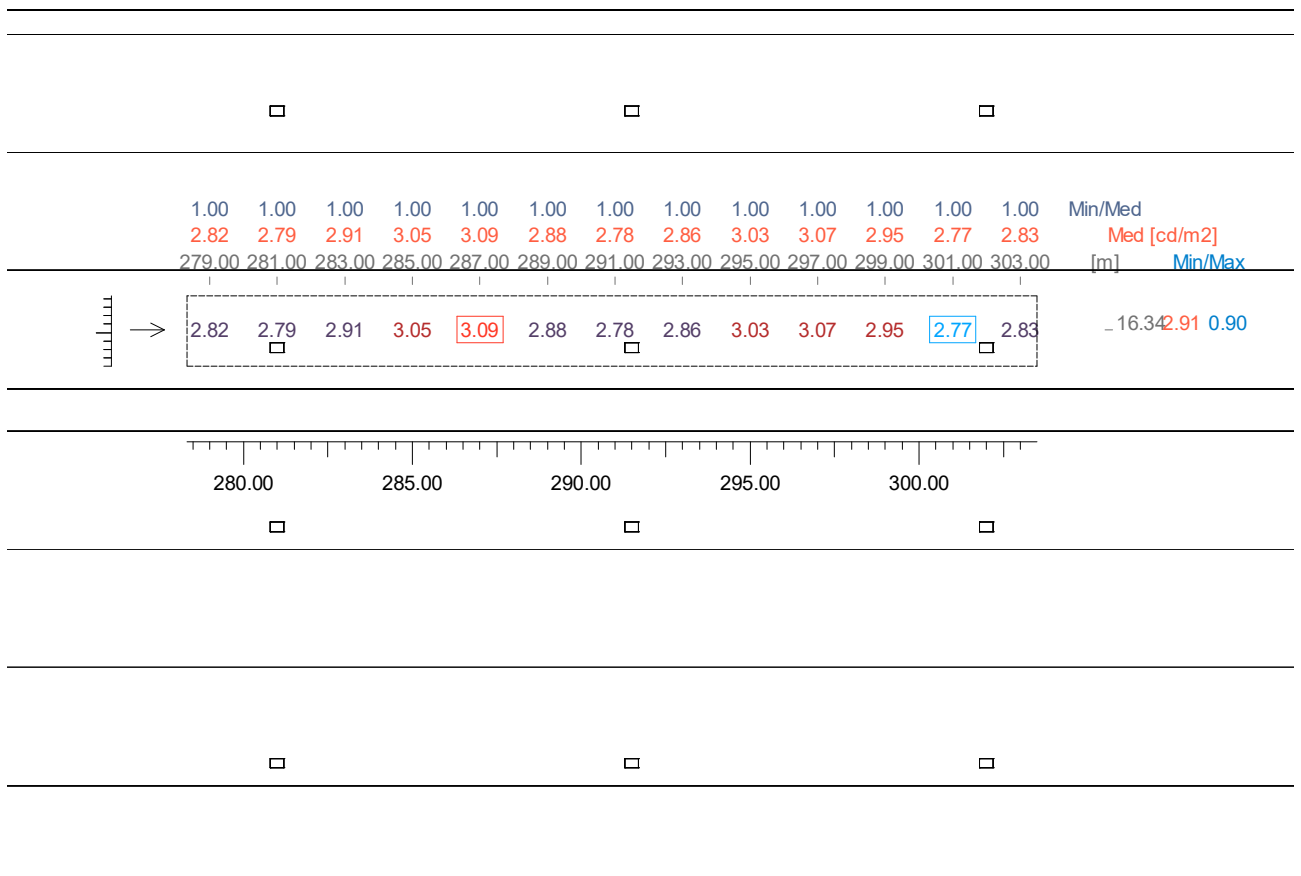


4.4 Valori delle Luminanze su: 4 - Autostrada A14 [UI,c1 (Autostrada, Sezione 2)] - Oss. 1 [x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.91 cd/m2	2.77 cd/m2	3.09 cd/m2	0.95	0.90	0.94

Osservatore
Tipo Calcolo

[x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)

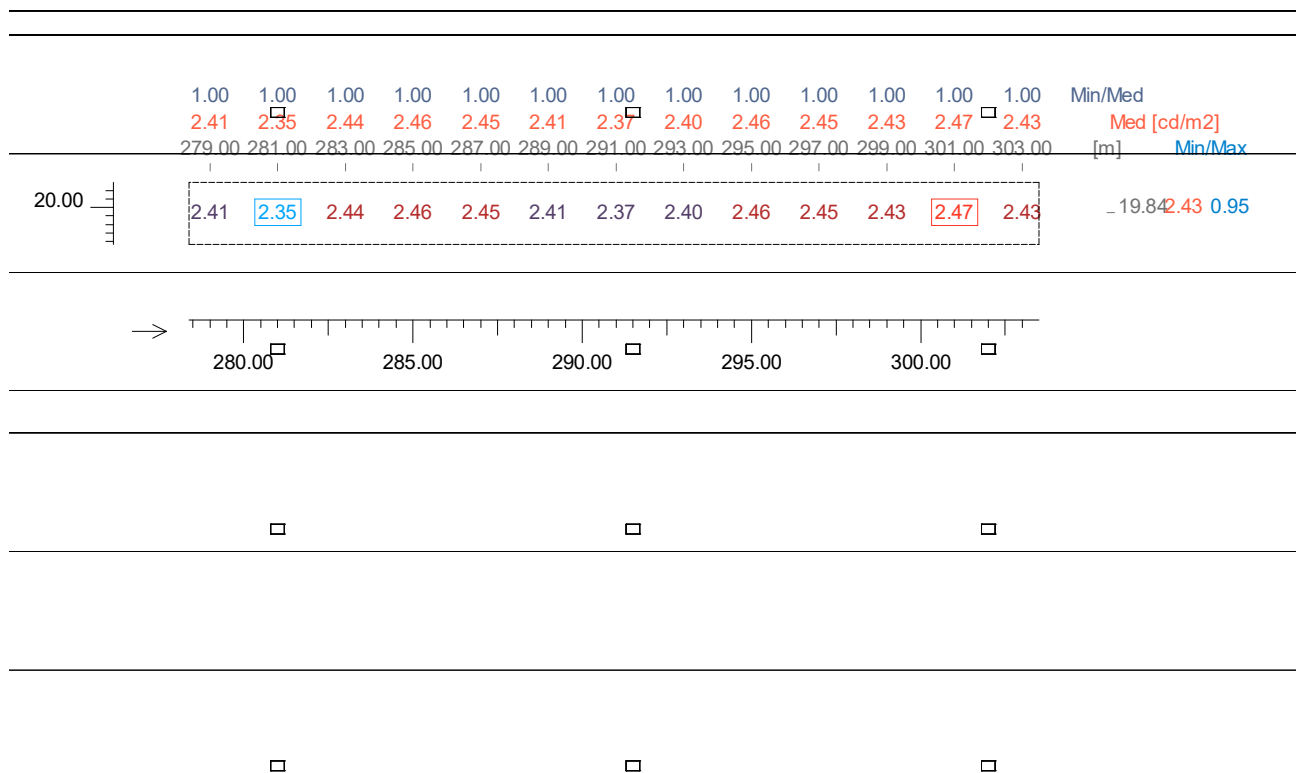


4.5 Valori delle Luminanze su: 4 - Autostrada A14 [UI,c2 (Autostrada, Sezione 2)] - Oss. 1 [x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.43 cd/m ²	2.35 cd/m ²	2.47 cd/m ²	0.97	0.95	0.98

Osservatore
Tipo Calcolo

[x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)

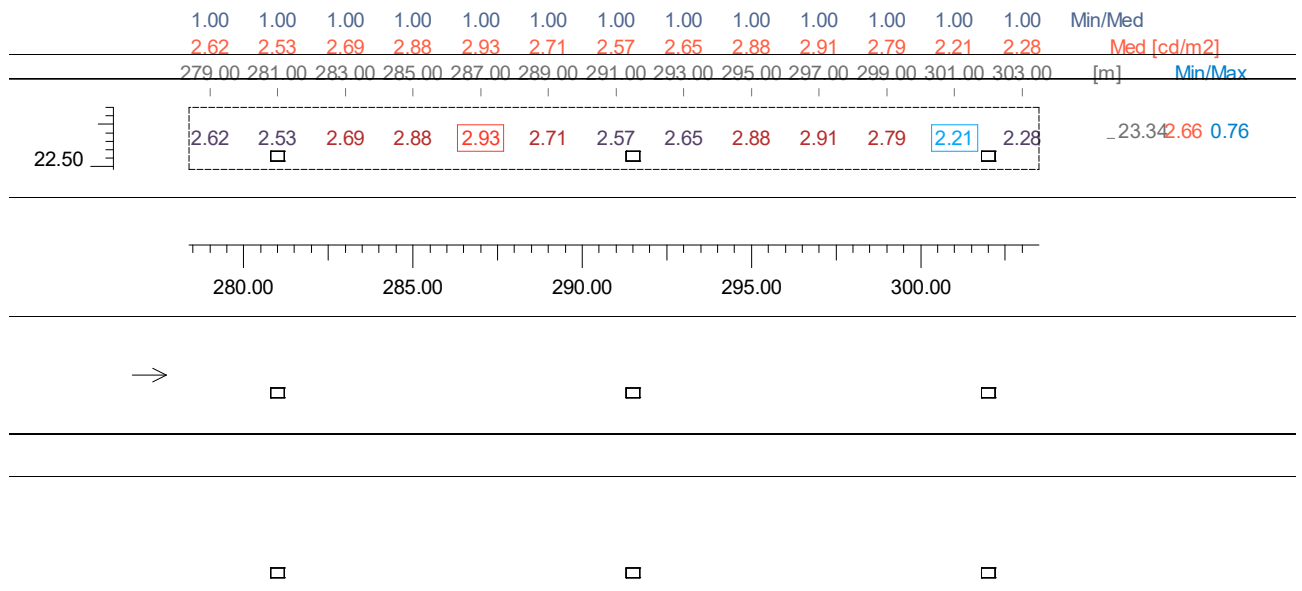


4.6 Valori delle Luminanze su: 4 - Autostrada A14 [UI,c3 (Autostrada, Sezione 2)] - Oss. 1 [x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.66 cd/m ²	2.21 cd/m ²	2.93 cd/m ²	0.83	0.76	0.91

Osservatore
Tipo Calcolo

[x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)



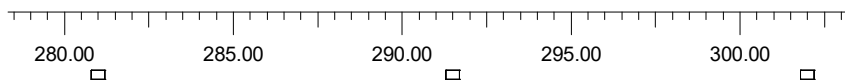
4.7 Valori di Illuminamento su: 4 - Autostrada A14 [Lp,c (Autostrada, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.05 lx	41.35 lx	57.84 lx	0.79	0.71	0.90

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	0.86	0.85	0.86	0.84	0.83	0.86	0.85	0.86	0.84	0.83	0.85	0.85	0.85	Min/Med	Med [lux]	Min/Max
	279.00	281.00	283.00	285.00	287.00	289.00	291.00	293.00	295.00	297.00	299.00	301.00	303.00	[m]		
25.00	45.29	45.09	45.29	42.68	41.80	45.04	44.90	45.03	43.66	41.35	44.45	44.70	44.70	-24.34	44.15	0.91
22.50	51.08	52.30	51.08	50.46	49.26	51.37	52.08	50.90	50.92	47.60	51.32	51.43	51.43	-22.84	50.86	0.91
20.00	56.30	56.18	56.30	53.86	52.97	56.13	55.99	55.99	54.80	52.53	55.55	55.71	55.71	-21.34	55.23	0.93
17.50	56.45	57.84	56.45	54.13	53.65	55.96	57.73	56.93	54.72	53.38	55.34	57.37	57.37	-19.84	55.95	0.92
15.00	56.30	56.18	56.30	54.42	53.93	55.99	56.38	56.42	54.96	53.67	55.53	56.47	56.47	-18.34	55.62	0.95
	53.85	53.76	53.86	53.16	52.25	54.07	53.59	53.46	53.63	51.75	54.02	53.33	53.34	-16.84	53.39	0.96
	48.94	49.86	48.94	48.95	48.86	49.10	49.72	49.01	49.07	48.84	49.20	49.38	49.38	-15.34	49.17	0.98

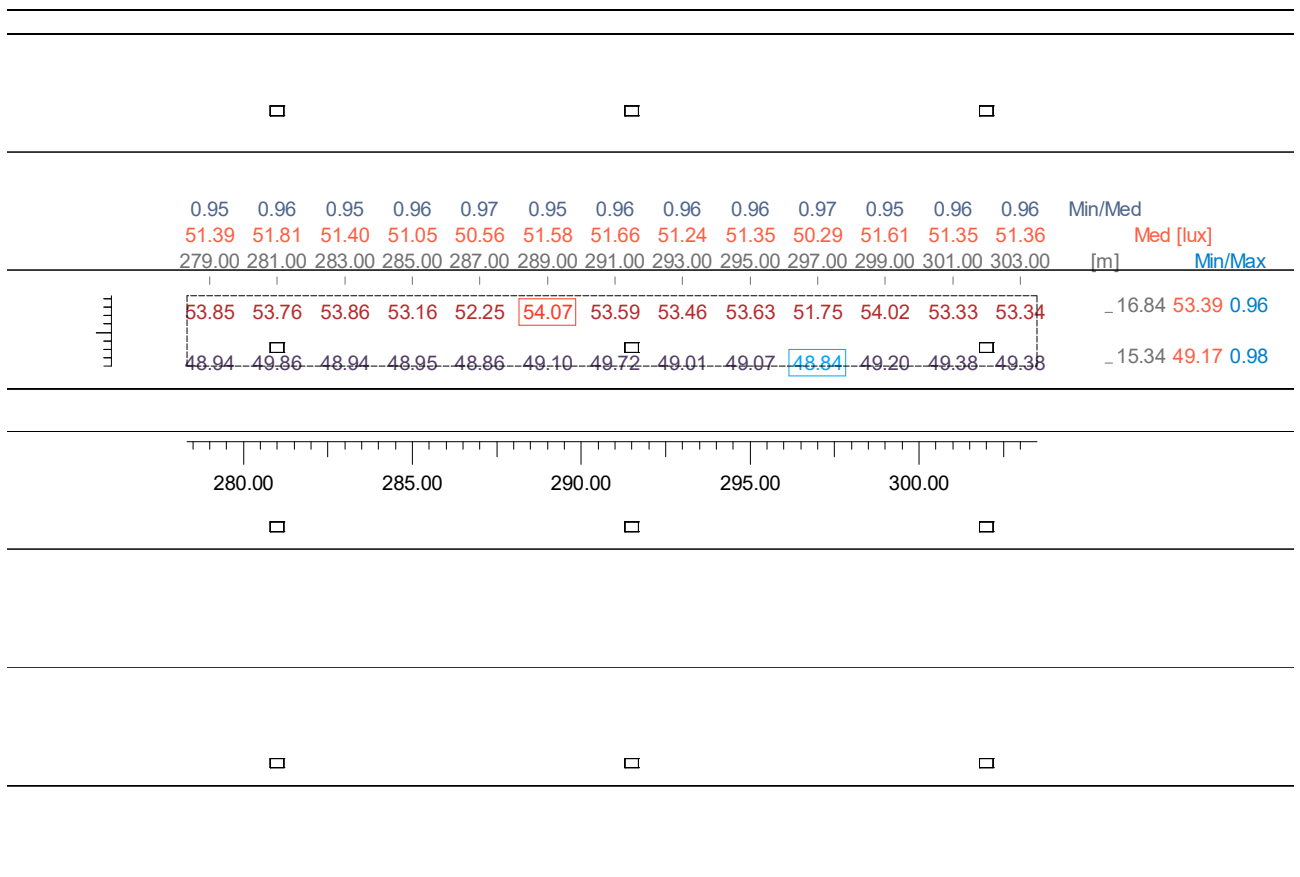


4.8 Valori di Illuminamento su: 4 - Autostrada A14 [UI,c1 (Autostrada, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	51.28 lx	48.84 lx	54.07 lx	0.95	0.90	0.95

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

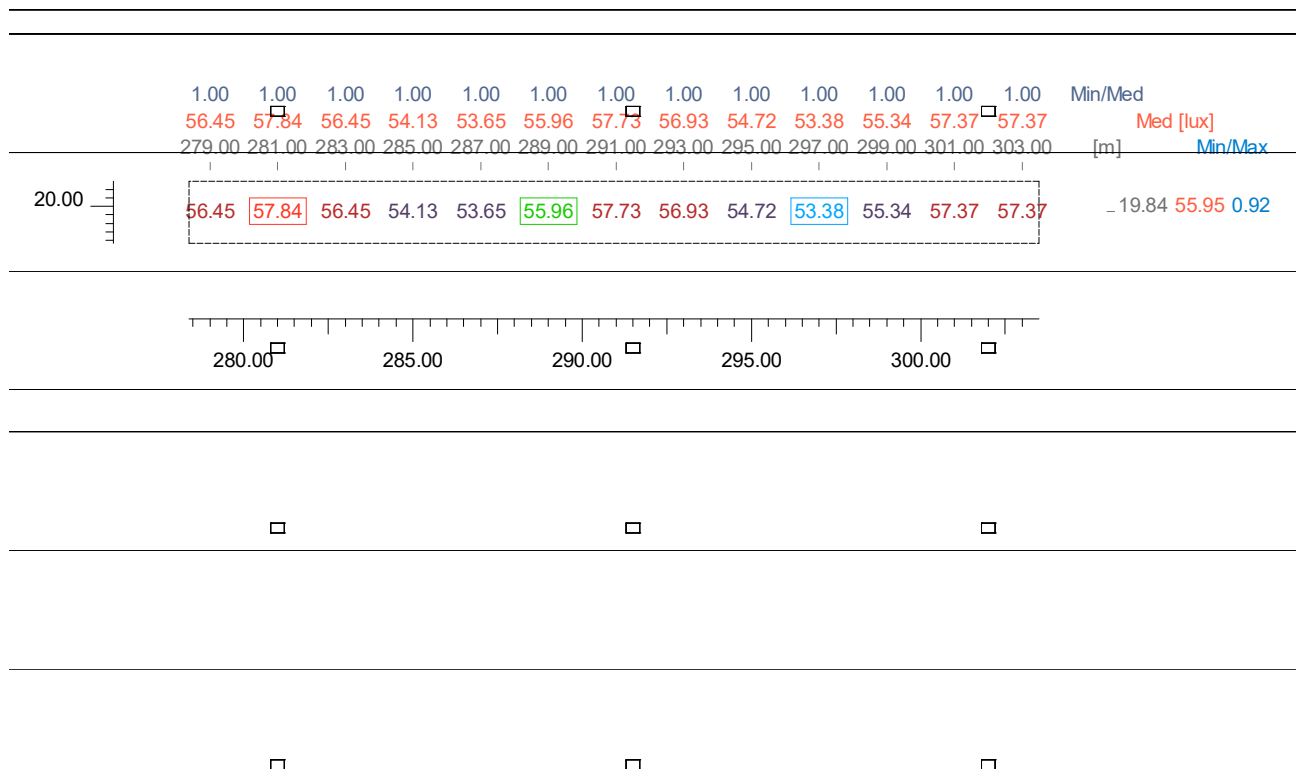


4.9 Valori di Illuminamento su: 4 - Autostrada A14 [UI,c2 (Autostrada, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	55.95 lx	53.38 lx	57.84 lx	0.95	0.92	0.97

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

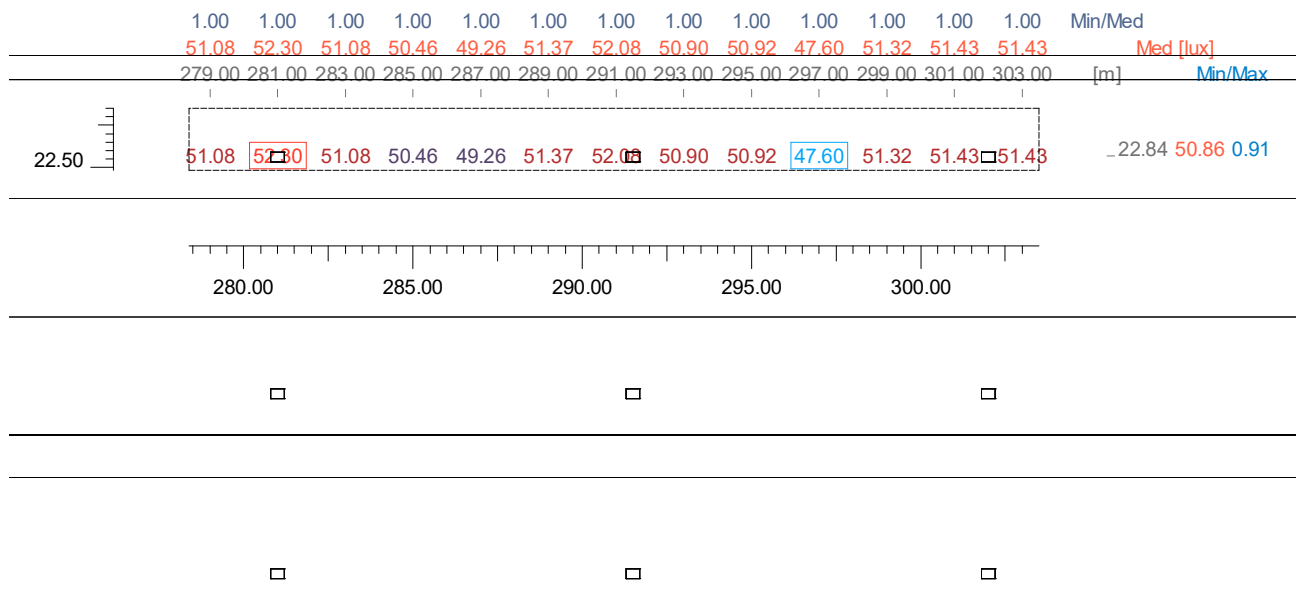


4.10 Valori di Illuminamento su: 4 - Autostrada A14 [UI,c3 (Autostrada, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	50.86 lx	47.60 lx	52.30 lx	0.94	0.91	0.97

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

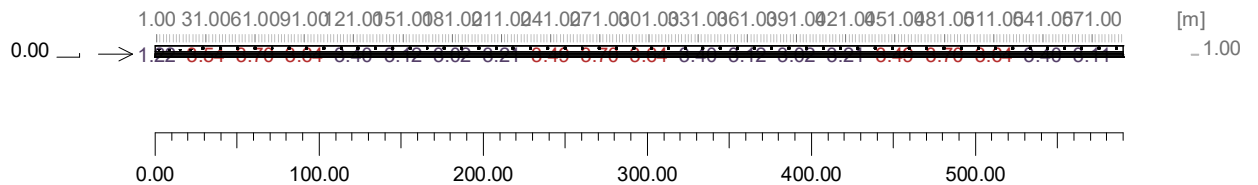


4.11 Valori delle Luminanze su: Parete Virtuale Sinistra - Oss. 1 (Lambert) [x=-60.00 y=1.42] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.42 cd/m ²	0.94 cd/m ²	4.25 cd/m ²	0.28	0.22	0.80

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

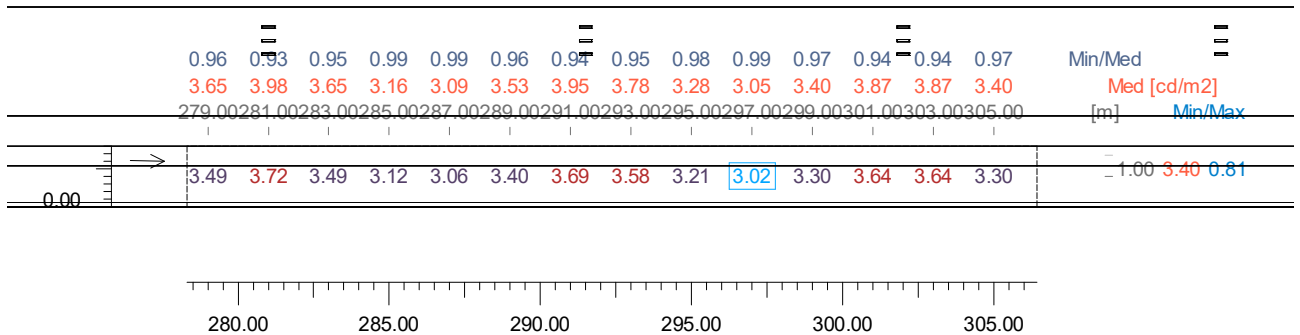


4.12 Valori delle Luminanze su: Parete Virtuale Sinistra [Lp,ps (Autostrada, Sezione 2)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.55 cd/m2	3.02 cd/m2	4.24 cd/m2	0.85	0.71	0.84

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

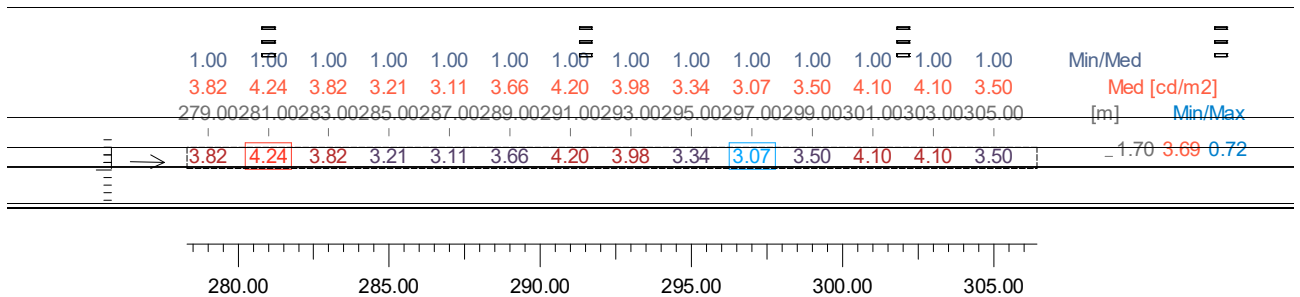


4.13 Valori delle Luminanze su: Parete Virtuale Sinistra [UI,ps (Autostrada, Sezione 2)] - Oss. 1 (Lambe

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.69 cd/m2	3.07 cd/m2	4.24 cd/m2	0.83	0.72	0.87

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

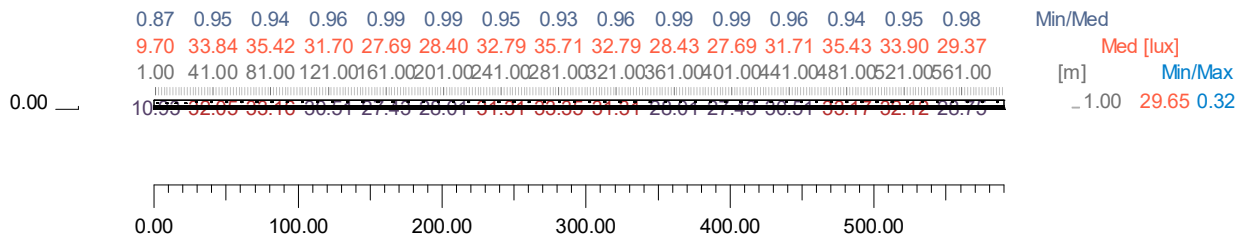


4.14 Valori di Illuminamento su: Parete Virtuale Sinistra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	30.69 lx	8.47 lx	38.15 lx	0.28	0.22	0.80

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

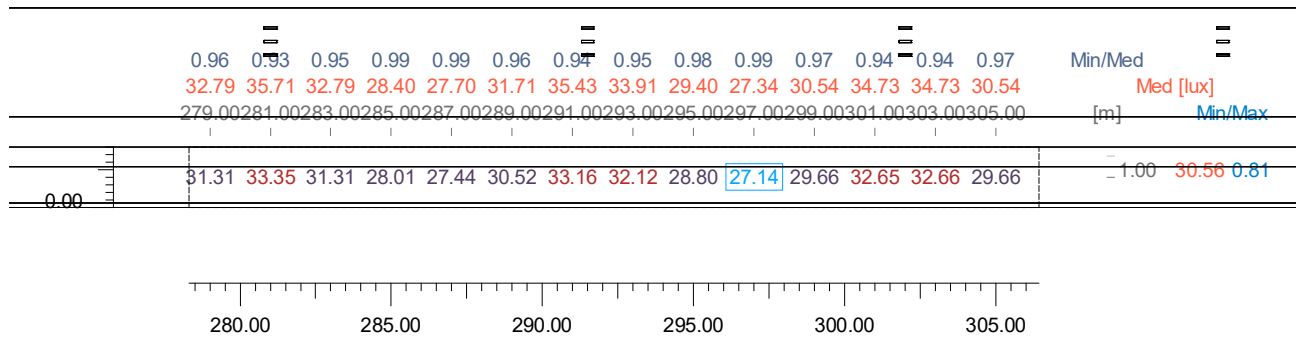


4.15 Valori di Illuminamento su: Parete Virtuale Sinistra [Lp,ps (Autostrada, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	31.84 lx	27.14 lx	38.06 lx	0.85	0.71	0.84

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

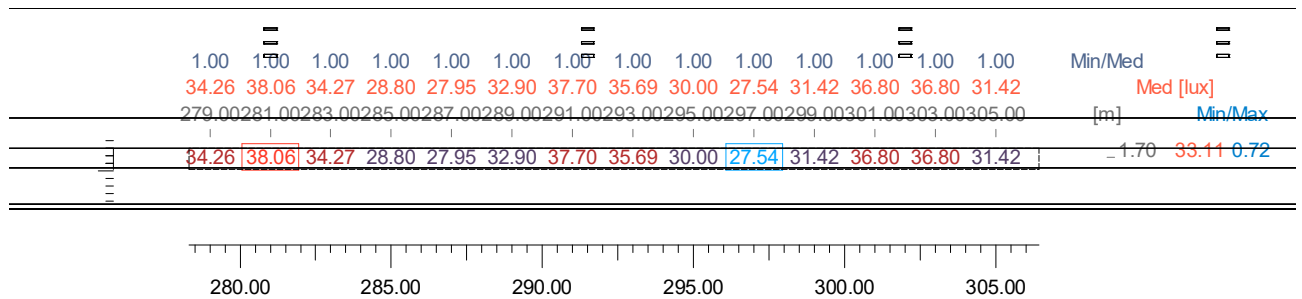


4.16 Valori di Illuminamento su: Parete Virtuale Sinistra [U,ps (Autostrada, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	33.11 lx	27.54 lx	38.06 lx	0.83	0.72	0.87

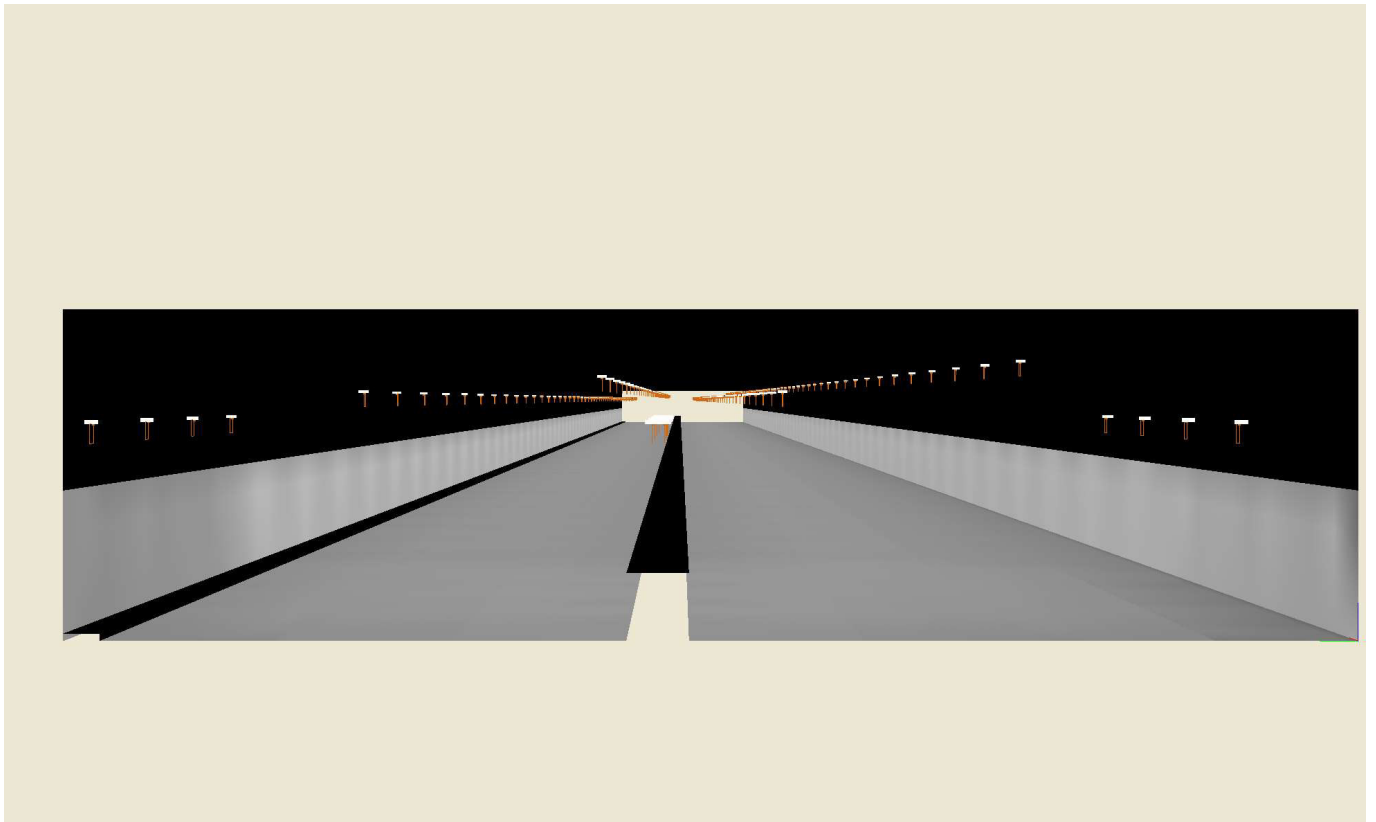
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

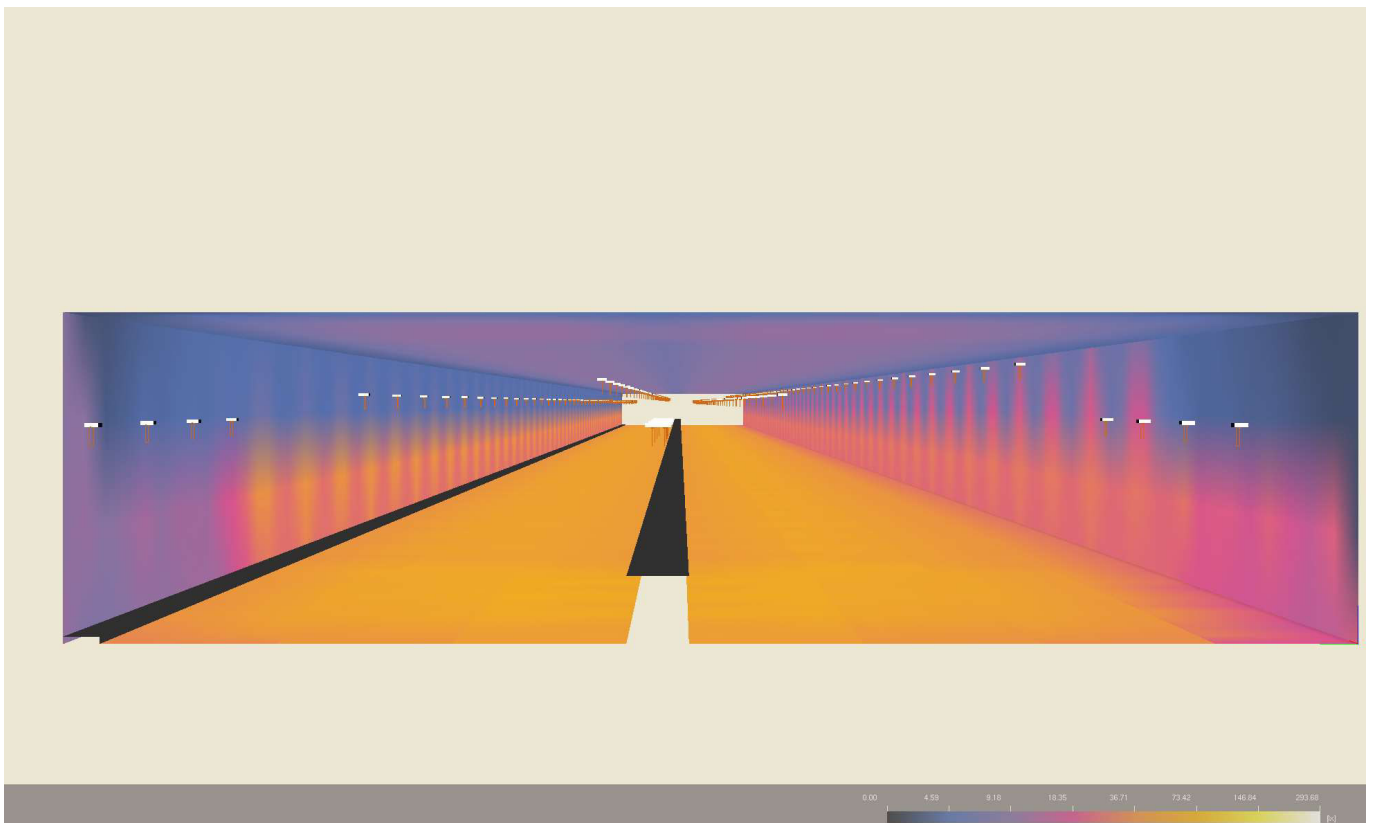


5. Immagini

5.1 Immagini



5.2 Immagini



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5 Immagini

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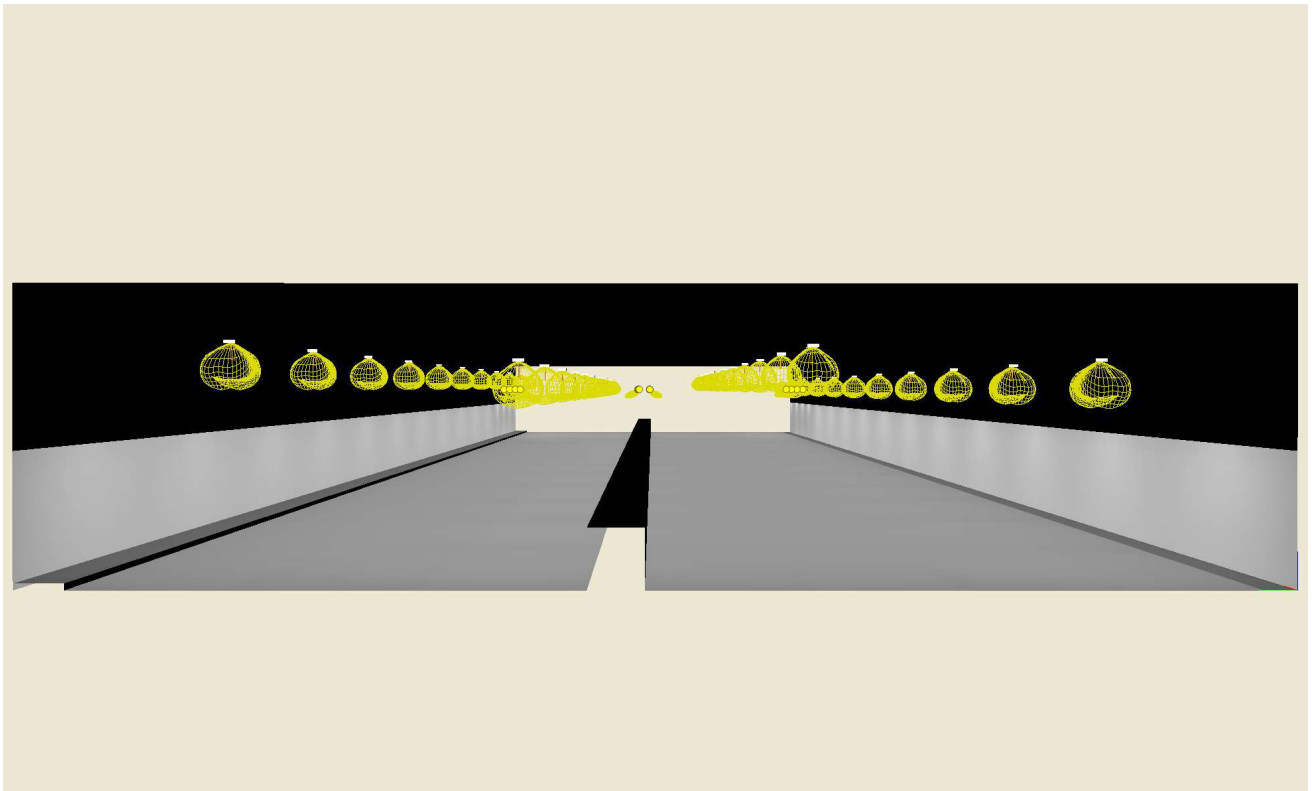
Galleria San Donnino

Note Installazione: Permanente - Autostrada + Tangenziale - Sezione 2
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 17/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria 6.61m
Fattore di manutenzione 80%
H. corpi illuminanti come da tabella sotto

Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Treponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

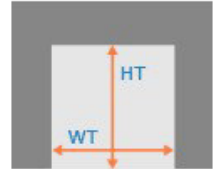
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

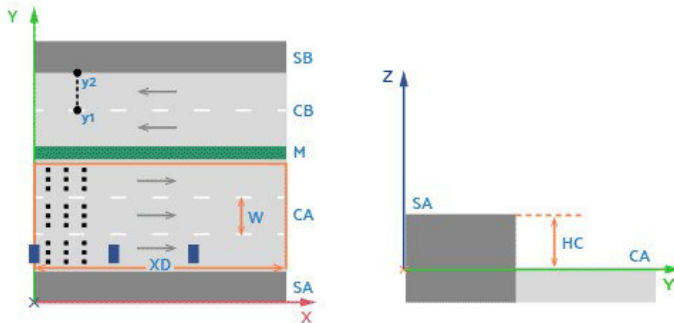
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice
Larghezza (WT) 27.66 m
Altezza (HT) 6.61 m
Alt.Parete Attiva 3.00 m
Col.Parete Attiva (255,255,255) 35%
Colore Soffitto (0,0,0) 0%

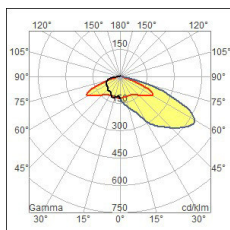


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Marciapiede	Pista Ciclo/Pedona	Marciapiede	--->	0.72	0.00	0.72	3	3	0.00		0.3000
2. Carreggiata	Carrabile	Corsia d'Emergenz	--->	2.84	0.72	3.56	3	3	0.00	C2	0.0560
3. Tangenziale	Carrabile			10.50	3.56	14.06	7		0.00	C2	0.0560
		3.1	Corsia 1	--->	3.50	3.56	7.06		3		
		3.2	Corsia 2	--->	3.50	7.06	10.56		3		
	3.3	Corsia 3	--->	3.50	10.56	14.06		3			
4. Mediana Centra	Secondaria	Mediana Centrale	--->	1.25	14.06	15.31	3	3	1.35		0.0000
5. Autostrada A14	Carrabile			11.25	15.31	26.56	8		0.00	C2	0.0560
		5.1	Corsia 1	--->	3.75	15.31	19.06		3		
		5.2	Corsia 2	--->	3.75	19.06	22.81		3		
	5.3	Corsia 3	--->	3.75	22.81	26.56		3			
6. Marciapiede B	Pista Ciclo/Pedona	Marciapiede	--->	1.10	26.56	27.66	3	3	0.15		0.3000

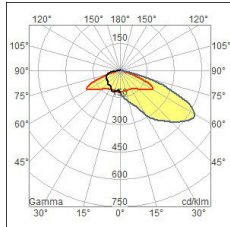


1.2 Informazioni Apparecchi/Rilievi

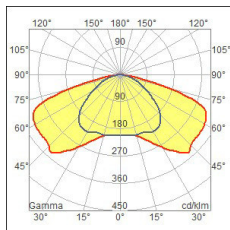
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8S 16D700_W201A (Radiant 8S 16D700_W201A)	Radiant 8S 16D700_W201A (Radiant 8S 16D700_W201A)	4770.00	0.80	100 %	255,255,255	8	Sorg-A	1



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coef. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A)	3101.00	0.80	100 %	255,255,255	8	Sorg-B	1



C	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	44	Sorg-C	1
---	---	--	---------	------	-------	-------------	----	--------	---

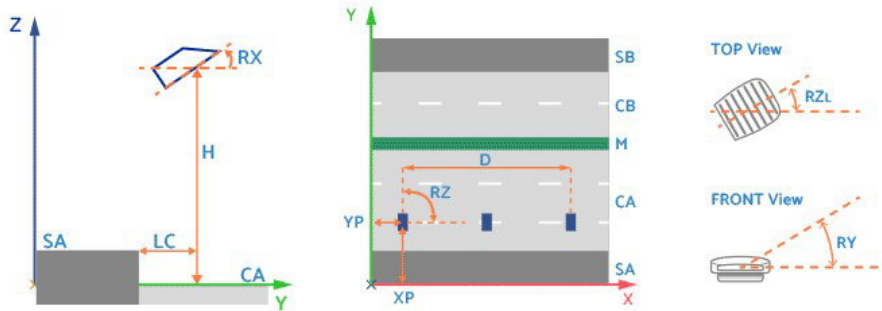


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		16D700 35W	16D700 35W	35.00	0.0000	4770	6000	8
Sorg-B		16D440 22W	16D440 22W	22.00	0.0000	3101	6000	8
Sorg-C		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	44

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altezz.App. [m] (H)	Num. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila B	C		5.00	3.00	5.00	11	10.50	0.00	105.00	0	0	-0
Fila B	C		5.00	10.00	5.35	11	10.50	0.00	105.00	0	0	-0
Fila B	C		5.00	17.15	5.00	11	10.50	0.00	105.00	0	0	-0
Fila B	C		5.00	24.15	5.45	11	10.50	0.00	105.00	0	0	-0
Row	A	Layer 0	119.20	0.50	4.31	4	6.50	0.00	19.50	0	0	0
Row	B	Layer 0	119.20	14.15	4.31	4	6.50	0.00	19.50	0	180	0
Row	B	Layer 0	119.20	15.20	4.31	4	6.50	0.00	19.50	0	0	0
Row	A	Layer 0	119.20	27.10	4.31	4	6.50	0.00	19.50	0	180	0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Marciapiede	Risultati	EAV = 36.7 lux	EMIN = 21.71 lux		
2 - Carreggiata	Risultati	LAV = 2.59 cd/m ²	Uo(L) = 0.50	UL = 0.49	fTI = 8 %
	Oss. 1) [x=-60.00 y=2.14] m	LAV = 2.59 cd/m ² *	Uo(L) = 0.50 *	UL = 0.49 *	fTI = 7.72 % *
	Oss.Ti [x=100.14 y=2.14] m	Lv = 0.26			
3 - Tangenziale	Risultati	LAV = 2.42 cd/m ²	Uo(L) = 0.56	UL = 0.47	fTI = 9 %
	Oss. 1) [x=-60.00 y=5.31] m	LAV = 2.42 cd/m ² *	Uo(L) = 0.56	UL = 0.63	
	Oss. 2) [x=-60.00 y=8.81] m	LAV = 2.44 cd/m ²	Uo(L) = 0.56	UL = 0.47 *	
	Oss. 3) [x=-60.00 y=12.31] m	LAV = 2.45 cd/m ²	Uo(L) = 0.56 *	UL = 0.54	
	Oss.Ti 1) [x=-5.86 y=5.31] m				fTI = 8.09 %
	Oss.Ti 2) [x=-5.86 y=8.81] m				fTI = 8.54 % *
	Oss.Ti 3) [x=-5.86 y=12.31] m				fTI = 7.88 %
	Lv = 0.28				
5 - Autostrada A14	Risultati	LAV = 2.51 cd/m ²	Uo(L) = 0.48	UL = 0.42	fTI = 10 %
	Oss. 1) [x=-60.00 y=17.18] m	LAV = 2.51 cd/m ² *	Uo(L) = 0.48 *	UL = 0.42 *	
	Oss. 2) [x=-60.00 y=20.93] m	LAV = 2.52 cd/m ²	Uo(L) = 0.53	UL = 0.64	
	Oss. 3) [x=-60.00 y=24.68] m	LAV = 2.52 cd/m ²	Uo(L) = 0.58	UL = 0.56	
	Oss.Ti 1) [x=-5.86 y=17.18] m				fTI = 9.79 % *
	Oss.Ti 2) [x=-5.86 y=20.93] m				fTI = 7.51 %
	Oss.Ti 3) [x=-5.86 y=24.68] m				fTI = 8.02 %
	Lv = 0.32				
6 - Marciapiede B	Risultati	EAV = 34.2 lux	EMIN = 18.79 lux		

Riepilogo Uniformità di Luminanza:

Sezione Permanente	[10.00..130.00] m	(Luminanza Costante)		
Parete Destra	LAV%,(pd/c,o1) = 126.8 %	LAV,pd=3.35 cd/m ²	Uo,pd=0.50	Ul,pd=0.39 (y=1.70 m)
Parete Sinistra	LAV%,(ps/c,o1) = 115.5 %	LAV,ps=3.05 cd/m ²	Uo,ps=0.63	Ul,ps=0.54 (y=1.70 m)
1 - Marciapiede	LAV%,(md/c,o1) = 134.5 %	LAV,md,o1=3.55 cd/m ²	Uo,md,o1=0.83	Ul,o1=0.77 (y=8.36 m)
2 - Carreggiata	---	LAV,c,o1=2.64 cd/m ²	Uo,c,o1=0.72	Ul,o1=0.67 (y=2.14 m)
3 - Tangenziale	---	LAV,c,o1=2.48 cd/m ²	Uo,c,o3=0.69	Ul,o2=0.60 (y=8.81 m)
---	Oss. 1) [x=-60.00 y=5.31] m	LAV,c,o1=2.48 cd/m ² *	Uo,c,o1=0.71	Ul,o1=0.75 (y=5.31 m)
---	Oss. 2) [x=-60.00 y=8.81] m	LAV,c,o2=2.50 cd/m ²	Uo,c,o2=0.71	Ul,o2=0.60 (y=8.81 m) *
---	Oss. 3) [x=-60.00 y=12.31] m	LAV,c,o3=2.51 cd/m ²	Uo,c,o3=0.69 *	Ul,o3=0.75 (y=12.31 m)
5 - Autostrada A14	---	LAV,c,o1=2.56 cd/m ²	Uo,c,o1=0.60	Ul,o3=0.56 (y=24.68 m)
---	Oss. 1) [x=-60.00 y=17.18] m	LAV,c,o1=2.56 cd/m ² *	Uo,c,o1=0.60 *	Ul,o1=0.58 (y=17.18 m)
---	Oss. 2) [x=-60.00 y=20.93] m	LAV,c,o2=2.56 cd/m ²	Uo,c,o2=0.65	Ul,o2=0.73 (y=20.93 m)
---	Oss. 3) [x=-60.00 y=24.68] m	LAV,c,o3=2.57 cd/m ²	Uo,c,o3=0.65	Ul,o3=0.56 (y=24.68 m)
6 - Marciapiede B	LAV%,(ms/c,o1) = 123.6 %	LAV,ms,o1=3.26 cd/m ²	Uo,ms,o1=0.85	Ul,o1=0.64 (y=27.11 m)

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6 - Marciapiede B
pd: Parete Destra
md: Marciapiede Destro

$L_{Av\%,(ms/c,o1)} = 123.6 \%$
ps: Parete Sinistra
ms: Marciapiede Sinistro

$L_{Av,ms,o1} = 3.26 \text{ cd/m}^2$
c: Carreggiata
o: Osservatore

$U_{o,ms,o1} = 0.85$
cm: Corsie di Marcia

$U_{l,o1} = 0.64 \text{ (y=27.11 m)}$

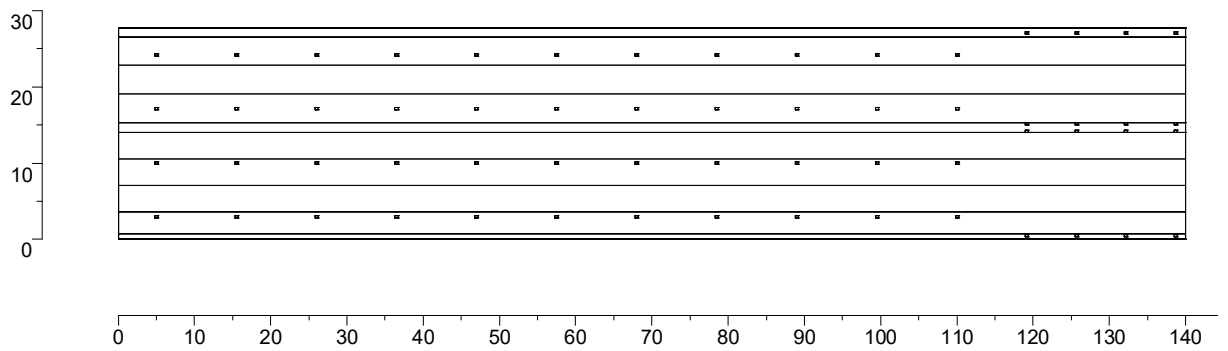
Inquinamento Luminoso

Rapporto Medio - Rn -

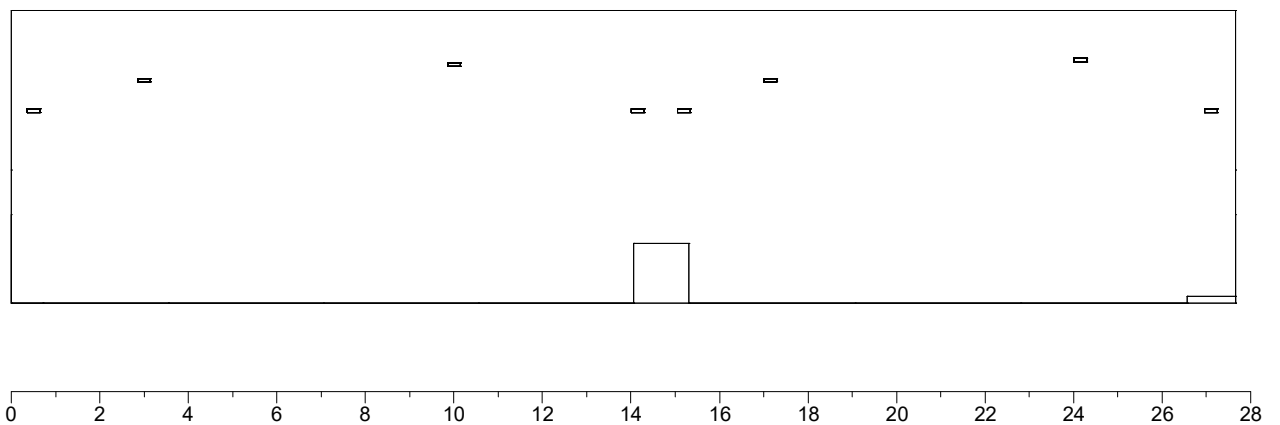
0.05 %

2. Viste Ambiente

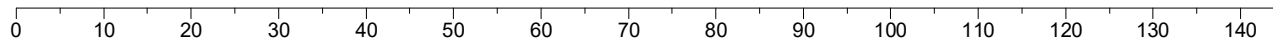
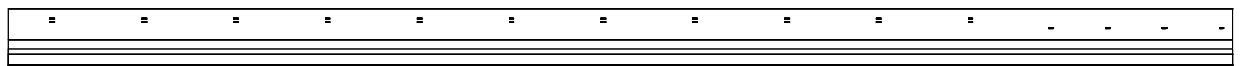
2.1 Vista 2D in Pianta



2.2 Vista Laterale

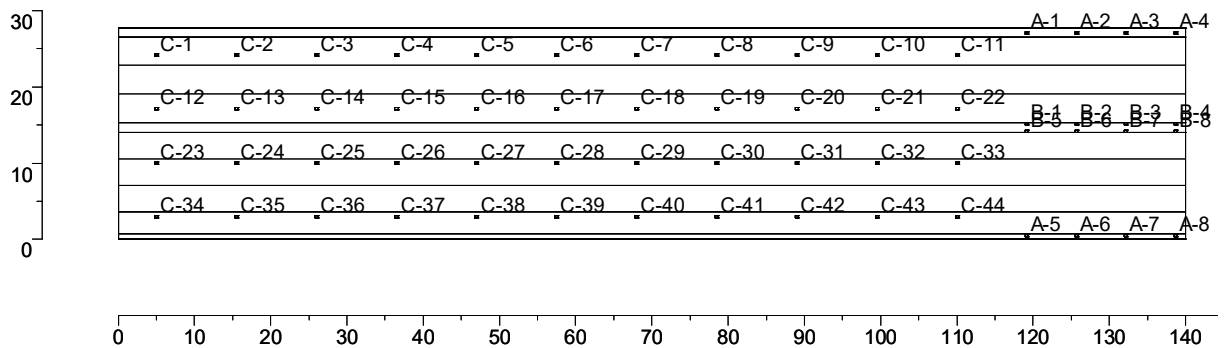


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	119.20	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-2	100 %	125.70	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-3	100 %	132.20	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-4	100 %	138.70	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
A-5	100 %	119.20	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
A-6	100 %	125.70	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
A-7	100 %	132.20	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
A-8	100 %	138.70	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
B-1	100 %	119.20	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-2	100 %	125.70	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-3	100 %	132.20	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-4	100 %	138.70	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
B-5	100 %	119.20	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-6	100 %	125.70	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-7	100 %	132.20	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
B-8	100 %	138.70	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
C-1	100 %	5.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-2	100 %	15.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-3	100 %	26.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-4	100 %	36.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-5	100 %	47.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-6	100 %	57.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-7	100 %	68.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-8	100 %	78.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-9	100 %	89.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-10	100 %	99.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-11	100 %	110.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-12	100 %	5.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-13	100 %	15.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-14	100 %	26.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-15	100 %	36.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-16	100 %	47.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-17	100 %	57.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-18	100 %	68.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-19	100 %	78.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-20	100 %	89.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-21	100 %	99.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-22	100 %	110.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-23	100 %	5.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-24	100 %	15.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-25	100 %	26.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-26	100 %	36.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-27	100 %	47.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-28	100 %	57.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-29	100 %	68.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-30	100 %	78.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-31	100 %	89.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-32	100 %	99.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-33	100 %	110.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-34	100 %	5.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-35	100 %	15.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-36	100 %	26.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-37	100 %	36.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-38	100 %	47.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-39	100 %	57.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-40	100 %	68.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-41	100 %	78.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-42	100 %	89.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-43	100 %	99.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-44	100 %	110.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8S 16D700_W201A	100 %	119.20	27.10	4.31	0.0	-0.0	180.0	119.20	27.10	0.00	0.0
A-2		Radiant 8S 16D700_W201A	100 %	125.70	27.10	4.31	0.0	-0.0	180.0	125.70	27.10	0.00	0.0
A-3		Radiant 8S 16D700_W201A	100 %	132.20	27.10	4.31	0.0	-0.0	180.0	132.20	27.10	0.00	0.0
A-4		Radiant 8S 16D700_W201A	100 %	138.70	27.10	4.31	0.0	-0.0	180.0	138.70	27.10	0.00	0.0
A-5		Radiant 8S 16D700_W201A	100 %	119.20	0.50	4.31	0.0	-0.0	0.0	119.20	0.50	0.00	0.0
A-6		Radiant 8S 16D700_W201A	100 %	125.70	0.50	4.31	0.0	-0.0	0.0	125.70	0.50	0.00	0.0
A-7		Radiant 8S 16D700_W201A	100 %	132.20	0.50	4.31	0.0	-0.0	0.0	132.20	0.50	0.00	0.0
A-8		Radiant 8S 16D700_W201A	100 %	138.70	0.50	4.31	0.0	-0.0	0.0	138.70	0.50	0.00	0.0
B-1		Radiant 8S 16D440_W201A	100 %	119.20	15.20	4.31	0.0	-0.0	0.0	119.20	15.20	0.00	0.0
B-2		Radiant 8S 16D440_W201A	100 %	125.70	15.20	4.31	0.0	-0.0	0.0	125.70	15.20	0.00	0.0
B-3		Radiant 8S 16D440_W201A	100 %	132.20	15.20	4.31	0.0	-0.0	0.0	132.20	15.20	0.00	0.0
B-4		Radiant 8S 16D440_W201A	100 %	138.70	15.20	4.31	0.0	-0.0	0.0	138.70	15.20	0.00	0.0
B-5		Radiant 8S 16D440_W201A	100 %	119.20	14.15	4.31	0.0	-0.0	180.0	119.20	14.15	0.00	0.0
B-6		Radiant 8S 16D440_W201A	100 %	125.70	14.15	4.31	0.0	-0.0	180.0	125.70	14.15	0.00	0.0
B-7		Radiant 8S 16D440_W201A	100 %	132.20	14.15	4.31	0.0	-0.0	180.0	132.20	14.15	0.00	0.0
B-8		Radiant 8S 16D440_W201A	100 %	138.70	14.15	4.31	0.0	-0.0	180.0	138.70	14.15	0.00	0.0
C-1		Radiant 8S 16D700_W244S	100 %	5.00	24.15	5.45	0.0	-0.0	0.0	5.00	24.15	0.00	0.0
C-2		Radiant 8S 16D700_W244S	100 %	15.50	24.15	5.45	0.0	-0.0	0.0	15.50	24.15	0.00	0.0
C-3		Radiant 8S 16D700_W244S	100 %	26.00	24.15	5.45	0.0	-0.0	0.0	26.00	24.15	0.00	0.0
C-4		Radiant 8S 16D700_W244S	100 %	36.50	24.15	5.45	0.0	-0.0	0.0	36.50	24.15	0.00	0.0
C-5		Radiant 8S 16D700_W244S	100 %	47.00	24.15	5.45	0.0	-0.0	0.0	47.00	24.15	0.00	0.0
C-6		Radiant 8S 16D700_W244S	100 %	57.50	24.15	5.45	0.0	-0.0	0.0	57.50	24.15	0.00	0.0
C-7		Radiant 8S 16D700_W244S	100 %	68.00	24.15	5.45	0.0	-0.0	0.0	68.00	24.15	0.00	0.0
C-8		Radiant 8S 16D700_W244S	100 %	78.50	24.15	5.45	0.0	-0.0	0.0	78.50	24.15	0.00	0.0
C-9		Radiant 8S 16D700_W244S	100 %	89.00	24.15	5.45	0.0	-0.0	0.0	89.00	24.15	0.00	0.0
C-10		Radiant 8S 16D700_W244S	100 %	99.50	24.15	5.45	0.0	-0.0	0.0	99.50	24.15	0.00	0.0
C-11		Radiant 8S 16D700_W244S	100 %	110.00	24.15	5.45	0.0	-0.0	0.0	110.00	24.15	0.00	0.0
C-12		Radiant 8S 16D700_W244S	100 %	5.00	17.15	5.00	0.0	-0.0	0.0	5.00	17.15	0.00	0.0
C-13		Radiant 8S 16D700_W244S	100 %	15.50	17.15	5.00	0.0	-0.0	0.0	15.50	17.15	0.00	0.0
C-14		Radiant 8S 16D700_W244S	100 %	26.00	17.15	5.00	0.0	-0.0	0.0	26.00	17.15	0.00	0.0
C-15		Radiant 8S 16D700_W244S	100 %	36.50	17.15	5.00	0.0	-0.0	0.0	36.50	17.15	0.00	0.0
C-16		Radiant 8S 16D700_W244S	100 %	47.00	17.15	5.00	0.0	-0.0	0.0	47.00	17.15	0.00	0.0
C-17		Radiant 8S 16D700_W244S	100 %	57.50	17.15	5.00	0.0	-0.0	0.0	57.50	17.15	0.00	0.0
C-18		Radiant 8S 16D700_W244S	100 %	68.00	17.15	5.00	0.0	-0.0	0.0	68.00	17.15	0.00	0.0
C-19		Radiant 8S 16D700_W244S	100 %	78.50	17.15	5.00	0.0	-0.0	0.0	78.50	17.15	0.00	0.0
C-20		Radiant 8S 16D700_W244S	100 %	89.00	17.15	5.00	0.0	-0.0	0.0	89.00	17.15	0.00	0.0
C-21		Radiant 8S 16D700_W244S	100 %	99.50	17.15	5.00	0.0	-0.0	0.0	99.50	17.15	0.00	0.0
C-22		Radiant 8S 16D700_W244S	100 %	110.00	17.15	5.00	0.0	-0.0	0.0	110.00	17.15	0.00	0.0
C-23		Radiant 8S 16D700_W244S	100 %	5.00	10.00	5.35	0.0	-0.0	0.0	5.00	10.00	0.00	0.0
C-24		Radiant 8S 16D700_W244S	100 %	15.50	10.00	5.35	0.0	-0.0	0.0	15.50	10.00	0.00	0.0
C-25		Radiant 8S 16D700_W244S	100 %	26.00	10.00	5.35	0.0	-0.0	0.0	26.00	10.00	0.00	0.0
C-26		Radiant 8S 16D700_W244S	100 %	36.50	10.00	5.35	0.0	-0.0	0.0	36.50	10.00	0.00	0.0
C-27		Radiant 8S 16D700_W244S	100 %	47.00	10.00	5.35	0.0	-0.0	0.0	47.00	10.00	0.00	0.0
C-28		Radiant 8S 16D700_W244S	100 %	57.50	10.00	5.35	0.0	-0.0	0.0	57.50	10.00	0.00	0.0
C-29		Radiant 8S 16D700_W244S	100 %	68.00	10.00	5.35	0.0	-0.0	0.0	68.00	10.00	0.00	0.0
C-30		Radiant 8S 16D700_W244S	100 %	78.50	10.00	5.35	0.0	-0.0	0.0	78.50	10.00	0.00	0.0
C-31		Radiant 8S 16D700_W244S	100 %	89.00	10.00	5.35	0.0	-0.0	0.0	89.00	10.00	0.00	0.0
C-32		Radiant 8S 16D700_W244S	100 %	99.50	10.00	5.35	0.0	-0.0	0.0	99.50	10.00	0.00	0.0
C-33		Radiant 8S 16D700_W244S	100 %	110.00	10.00	5.35	0.0	-0.0	0.0	110.00	10.00	0.00	0.0
C-34		Radiant 8S 16D700_W244S	100 %	5.00	3.00	5.00	0.0	-0.0	0.0	5.00	3.00	0.00	0.0
C-35		Radiant 8S 16D700_W244S	100 %	15.50	3.00	5.00	0.0	-0.0	0.0	15.50	3.00	0.00	0.0
C-36		Radiant 8S 16D700_W244S	100 %	26.00	3.00	5.00	0.0	-0.0	0.0	26.00	3.00	0.00	0.0
C-37		Radiant 8S 16D700_W244S	100 %	36.50	3.00	5.00	0.0	-0.0	0.0	36.50	3.00	0.00	0.0
C-38		Radiant 8S 16D700_W244S	100 %	47.00	3.00	5.00	0.0	-0.0	0.0	47.00	3.00	0.00	0.0
C-39		Radiant 8S 16D700_W244S	100 %	57.50	3.00	5.00	0.0	-0.0	0.0	57.50	3.00	0.00	0.0
C-40		Radiant 8S 16D700_W244S	100 %	68.00	3.00	5.00	0.0	-0.0	0.0	68.00	3.00	0.00	0.0
C-41		Radiant 8S 16D700_W244S	100 %	78.50	3.00	5.00	0.0	-0.0	0.0	78.50	3.00	0.00	0.0
C-42		Radiant 8S 16D700_W244S	100 %	89.00	3.00	5.00	0.0	-0.0	0.0	89.00	3.00	0.00	0.0
C-43		Radiant 8S 16D700_W244S	100 %	99.50	3.00	5.00	0.0	-0.0	0.0	99.50	3.00	0.00	0.0
C-44		Radiant 8S 16D700_W244S	100 %	110.00	3.00	5.00	0.0	-0.0	0.0	110.00	3.00	0.00	0.0

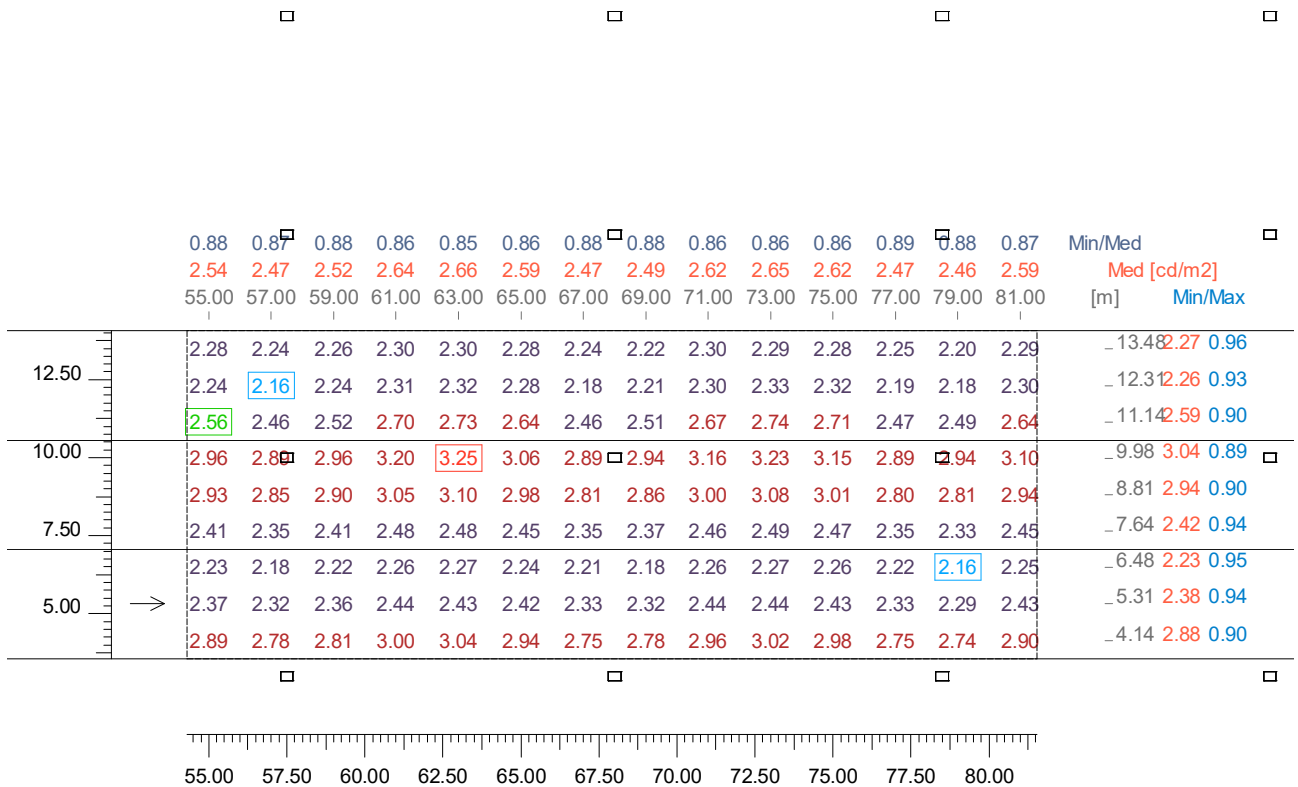
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 3 - Tangenziale [Lp,c (Tangenziale - Sezione 2)] - Oss. 1 [x=-60.00 y=5.31 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.56 cd/m2	2.16 cd/m2	3.25 cd/m2	0.85	0.66	0.79

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

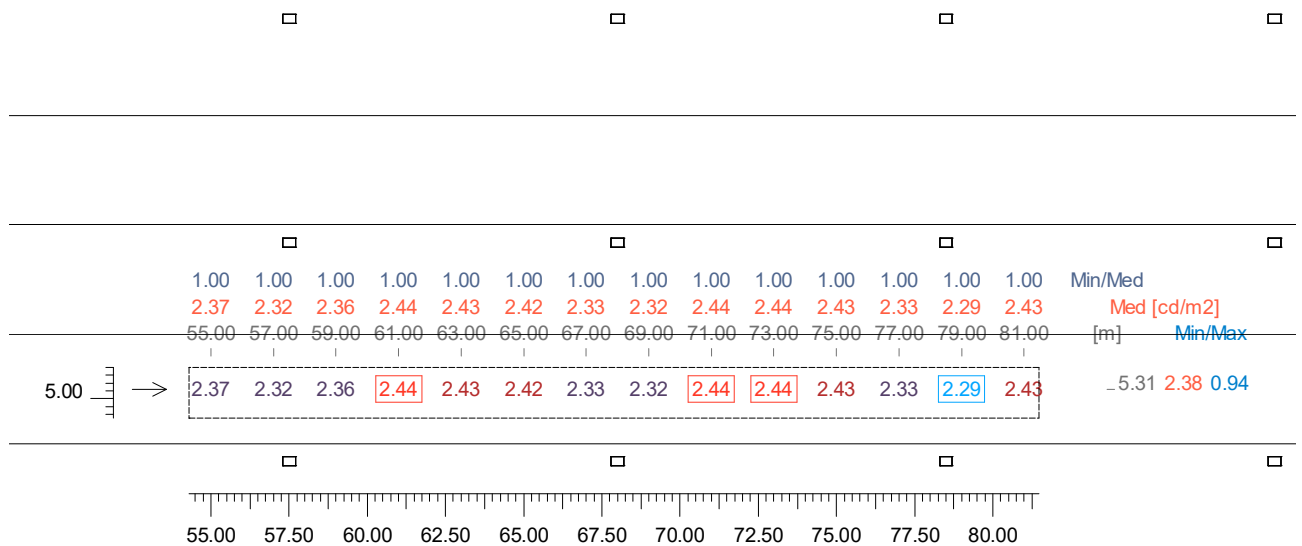


4.2 Valori delle Luminanze su: 3 - Tangenziale [UI,c1 (Tangenziale - Sezione 2)] - Oss. 1 [x=-60.00 y=5.31

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.38 cd/m2	2.29 cd/m2	2.44 cd/m2	0.96	0.94	0.98

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

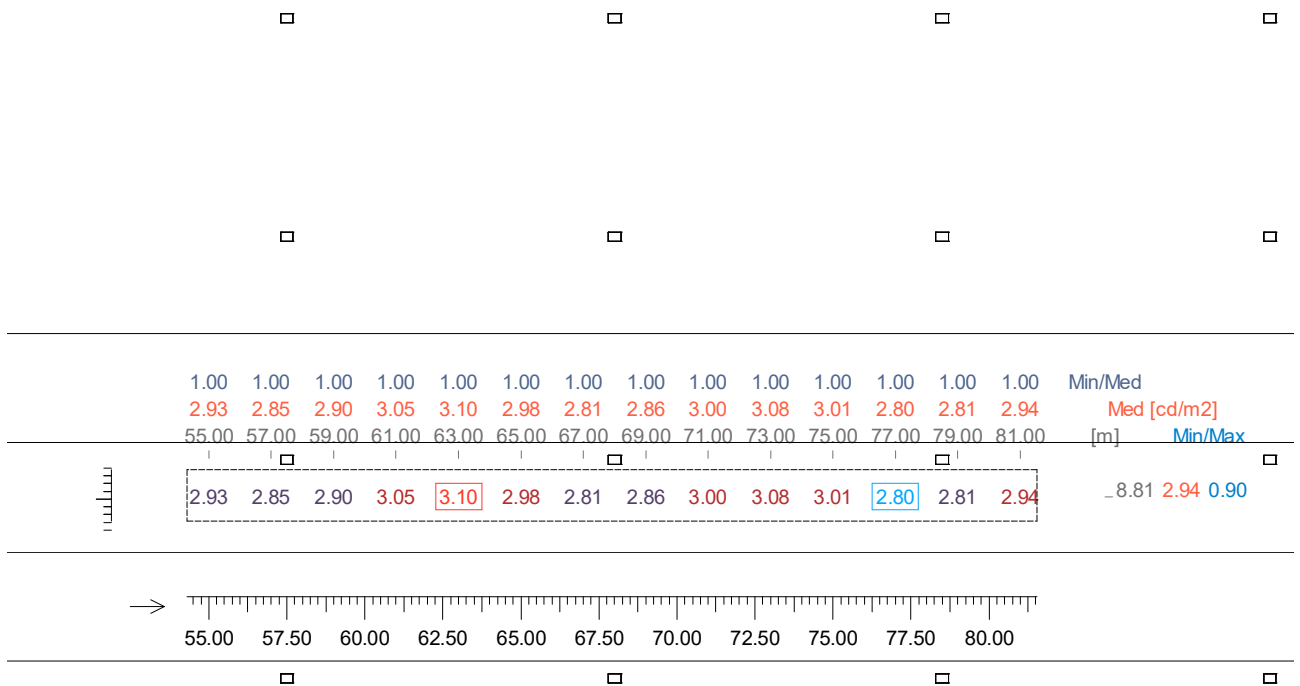


4.3 Valori delle Luminanze su: 3 - Tangenziale [UI,c2 (Tangenziale - Sezione 2)] - Oss. 1 [x=-60.00 y=5.31 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.94 cd/m2	2.80 cd/m2	3.10 cd/m2	0.95	0.90	0.95

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

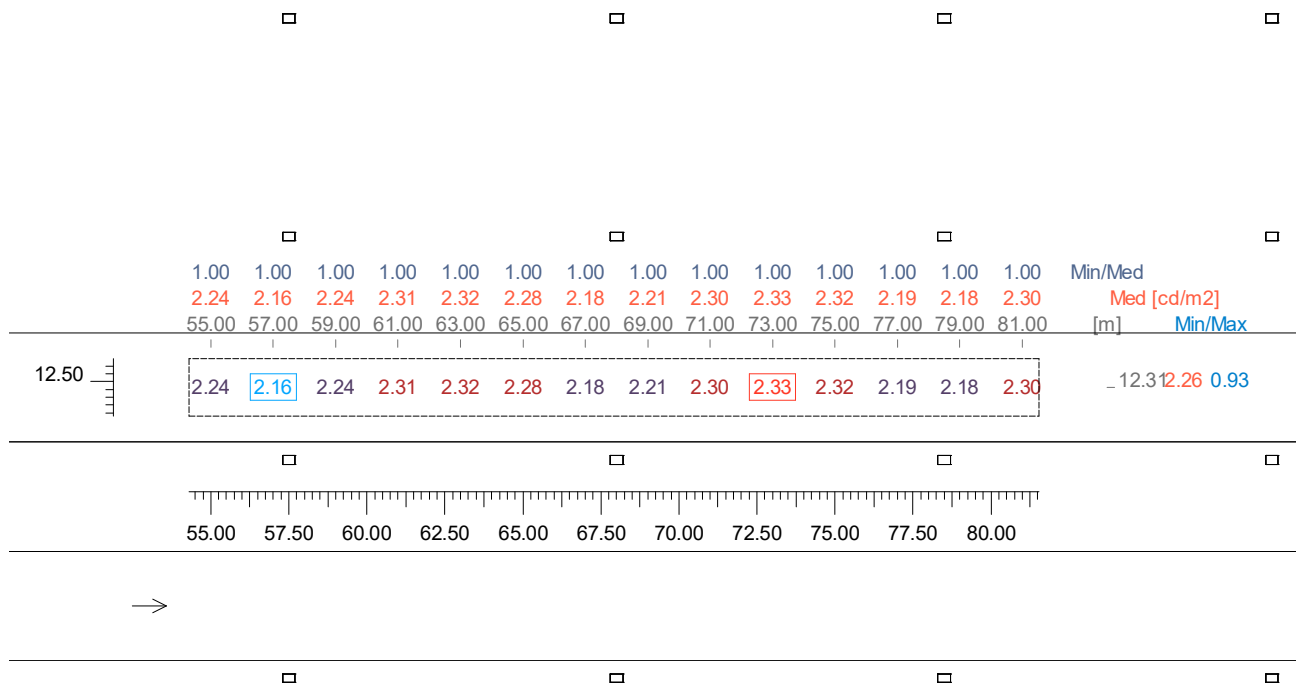


4.4 Valori delle Luminanze su: 3 - Tangenziale [UI,c3 (Tangenziale - Sezione 2)] - Oss. 1 [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.26 cd/m ²	2.16 cd/m ²	2.33 cd/m ²	0.96	0.93	0.97

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

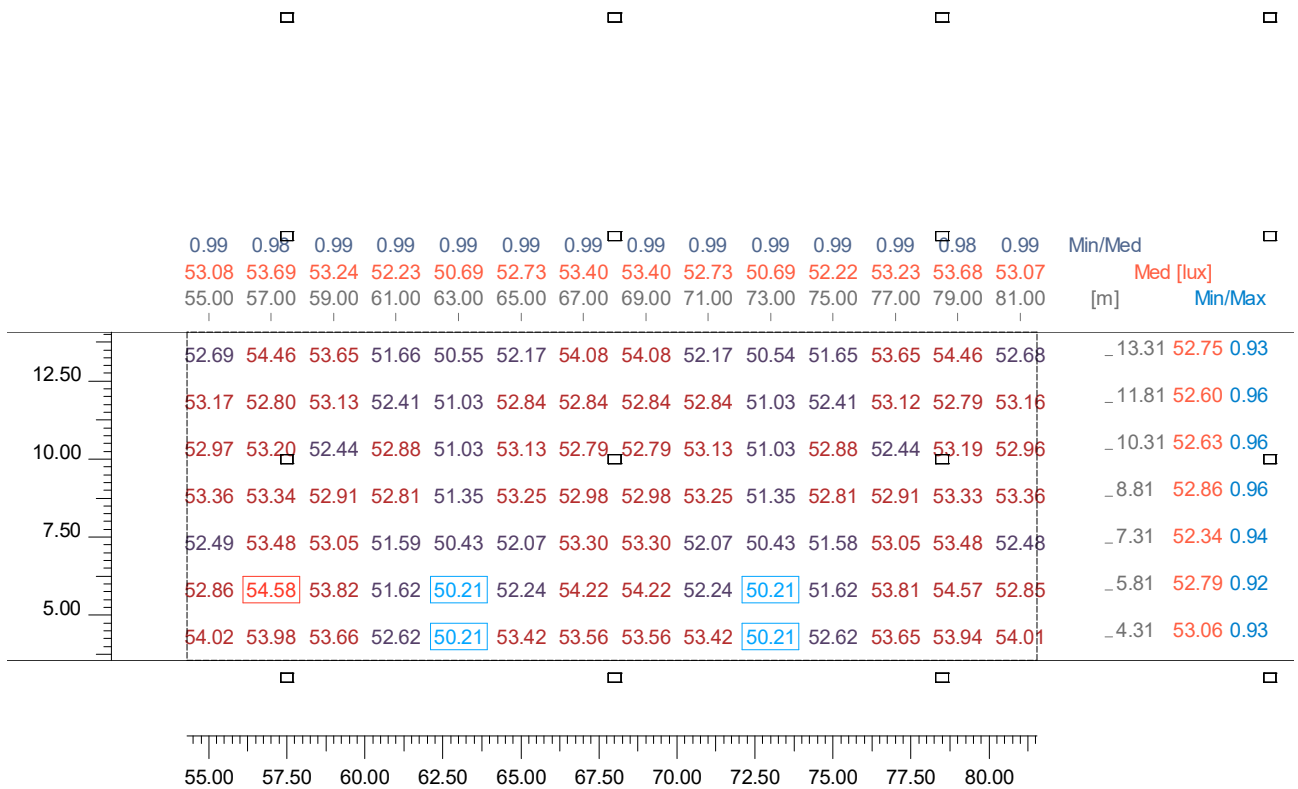


4.5 Valori di Illuminamento su: 3 - Tangenziale [Lp,c (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.72 lx	50.21 lx	54.58 lx	0.95	0.92	0.97

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

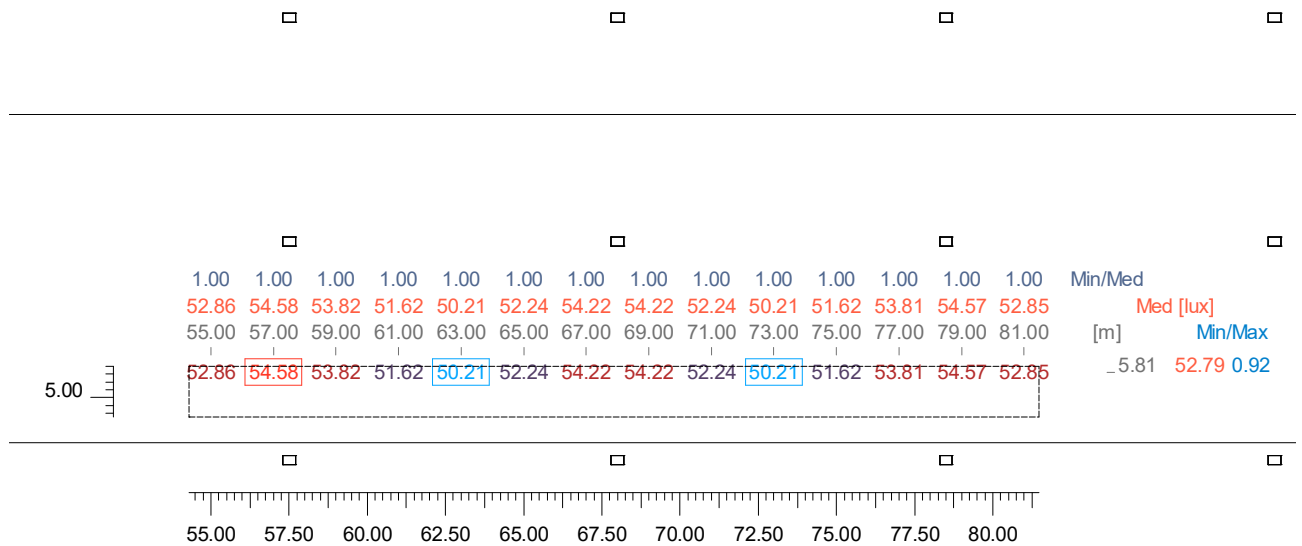


4.6 Valori di Illuminamento su: 3 - Tangenziale [U1,c1 (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.79 lx	50.21 lx	54.58 lx	0.95	0.92	0.97

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

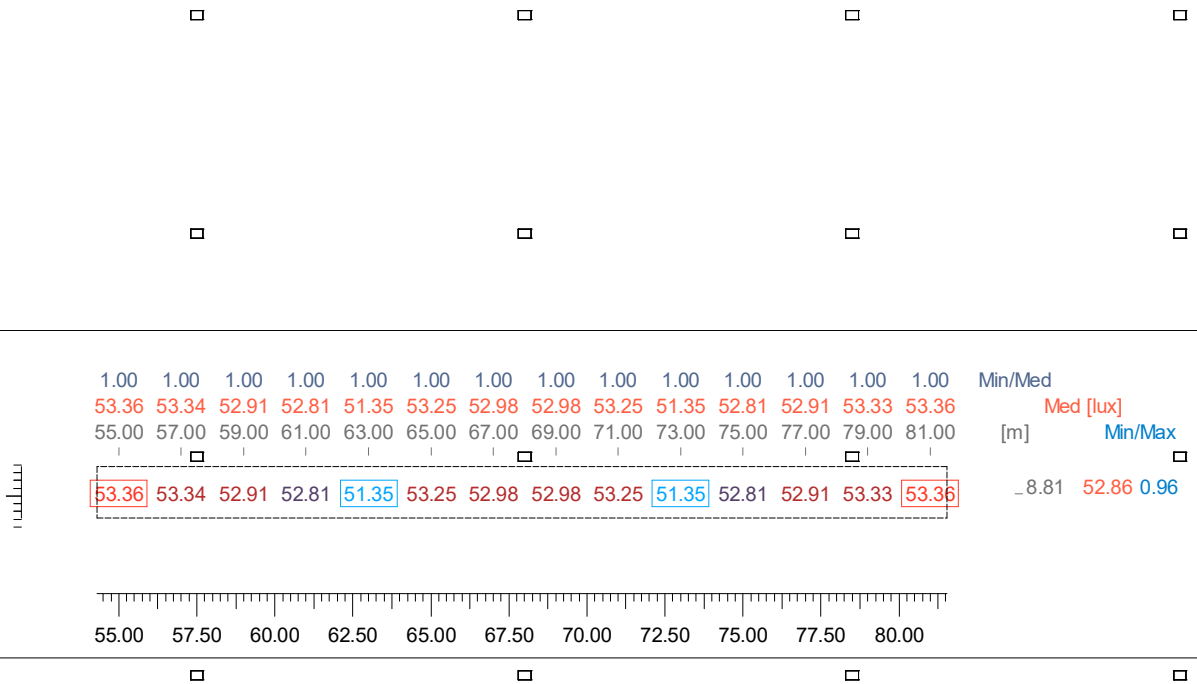


4.7 Valori di Illuminamento su: 3 - Tangenziale [UI,c2 (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.86 lx	51.35 lx	53.36 lx	0.97	0.96	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

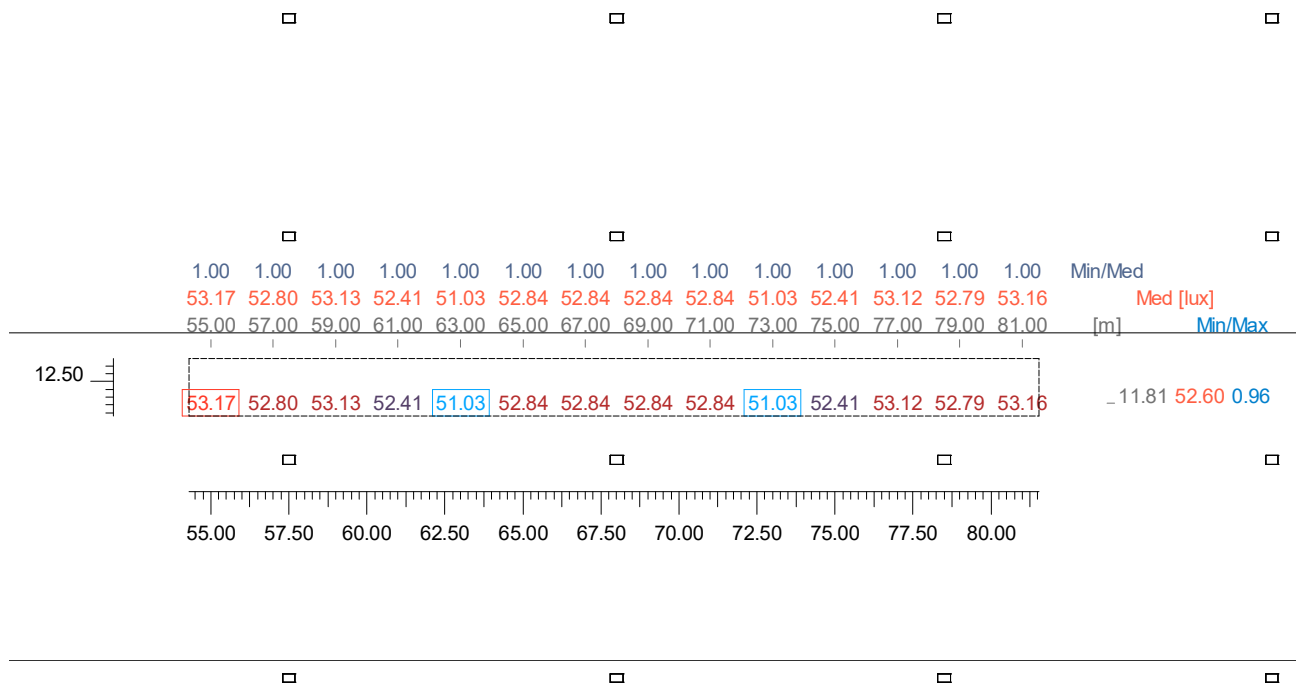


4.8 Valori di Illuminamento su: 3 - Tangenziale [U1,c3 (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.60 lx	51.03 lx	53.17 lx	0.97	0.96	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



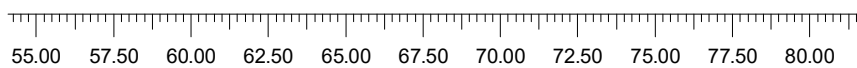
4.9 Valori delle Luminanze su: 5 - Autostrada A14 [Lp,c (Autostrada, Sezione 2)] - Oss. 1 [x=-60.00 y=17.50 z=1.50] m => [x=30.00 y=17.18 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.60 cd/m ²	1.66 cd/m ²	3.55 cd/m ²	0.64	0.47	0.73

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

	0.69	0.67	0.68	0.68	0.68	0.69	0.68	0.68	0.68	0.69	0.70	0.69	0.68	0.69	Min/Med
	2.58	2.49	2.55	2.70	2.72	2.64	2.48	2.51	2.67	2.71	2.69	2.50	2.49	2.64	Med [cd/m ²]
	55.00	57.00	59.00	61.00	63.00	65.00	67.00	69.00	71.00	73.00	75.00	77.00	79.00	81.00	[m] Min/Max
25.00	1.77	1.66	1.74	1.84	1.86	1.83	1.68	1.72	1.83	1.87	1.89	1.72	1.70	1.83	25.93 1.78 0.88
	2.34	2.24	2.33	2.53	2.61	2.44	2.25	2.31	2.51	2.62	2.52	2.30	2.32	2.48	24.68 2.41 0.85
	2.84	2.77	2.81	3.01	3.07	2.90	2.74	2.79	2.97	3.05	2.96	2.76	2.77	2.92	23.43 2.88 0.89
22.50	2.58	2.48	2.54	2.64	2.66	2.61	2.46	2.48	2.60	2.64	2.63	2.46	2.43	2.57	22.18 2.56 0.91
	2.26	2.21	2.27	2.31	2.30	2.27	2.22	2.23	2.30	2.30	2.29	2.23	2.20	2.29	20.93 2.26 0.95
20.00	2.35	2.29	2.33	2.41	2.40	2.38	2.31	2.30	2.41	2.40	2.41	2.32	2.27	2.41	19.68 2.35 0.94
17.50	2.87	2.75	2.79	2.97	2.99	2.94	2.73	2.75	2.94	2.98	2.98	2.75	2.73	2.90	18.43 2.86 0.91
	3.33	3.26	3.29	3.55	3.52	3.42	3.19	3.26	3.50	3.52	3.50	3.18	3.24	3.43	17.18 3.37 0.90
	2.90	2.78	2.82	3.01	3.03	2.97	2.76	2.79	2.98	3.02	3.01	2.78	2.77	2.94	15.93 2.90 0.91

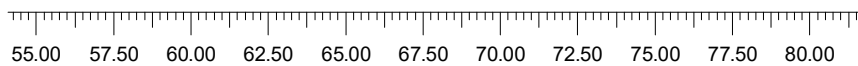
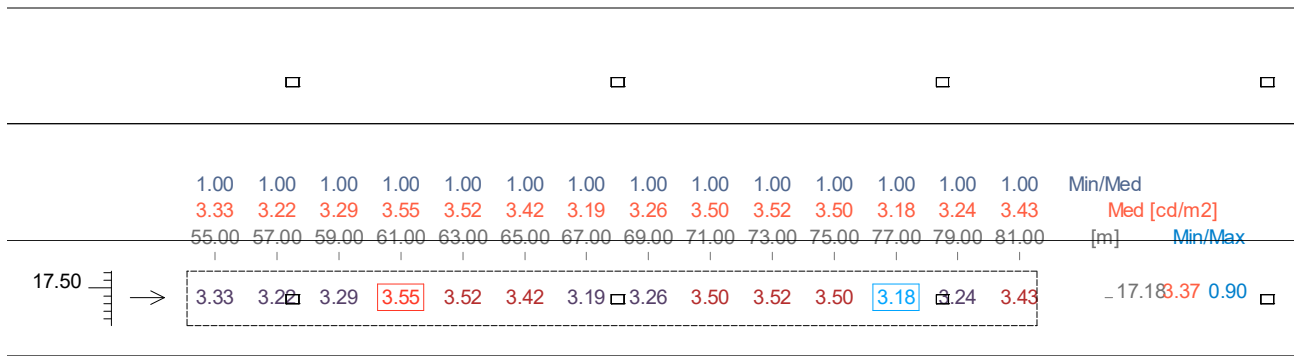


4.10 Valori delle Luminanze su: 5 - Autostrada A14 [UI,c1 (Autostrada - Sezione 2)] - Oss. 1 [x=-60.00 y=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.37 cd/m2	3.18 cd/m2	3.55 cd/m2	0.94	0.90	0.95

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

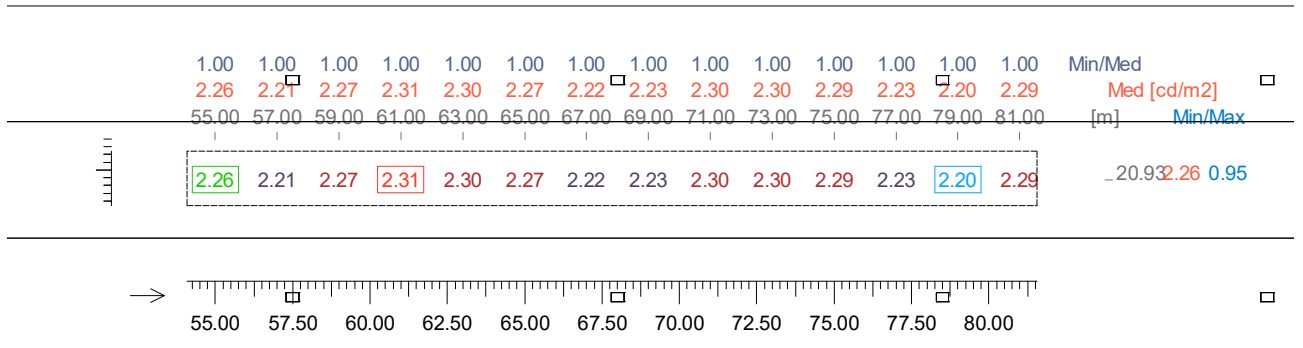


4.11 Valori delle Luminanze su: 5 - Autostrada A14 [UI,c2 (Autostrada - Sezione 2)] - Oss. 1 [x=-60.00 y=...

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.26 cd/m2	2.20 cd/m2	2.31 cd/m2	0.97	0.95	0.98

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

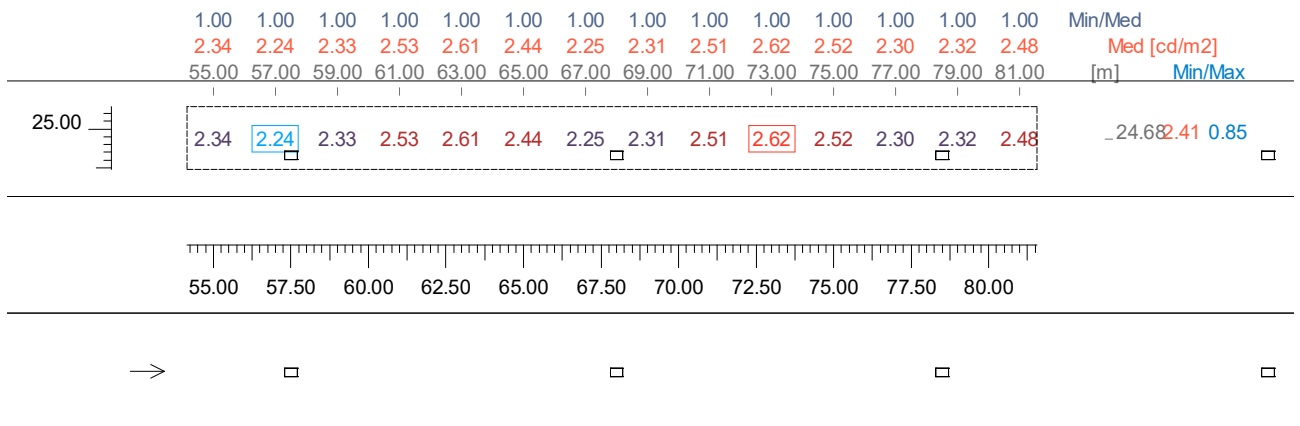


4.12 Valori delle Luminanze su: 5 - Autostrada A14 [UI,c3 (Autostrada - Sezione 2)] - Oss. 1 [x=-60.00 y=...

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.41 cd/m2	2.24 cd/m2	2.62 cd/m2	0.93	0.85	0.92

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

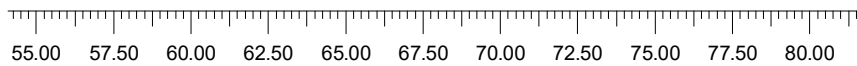
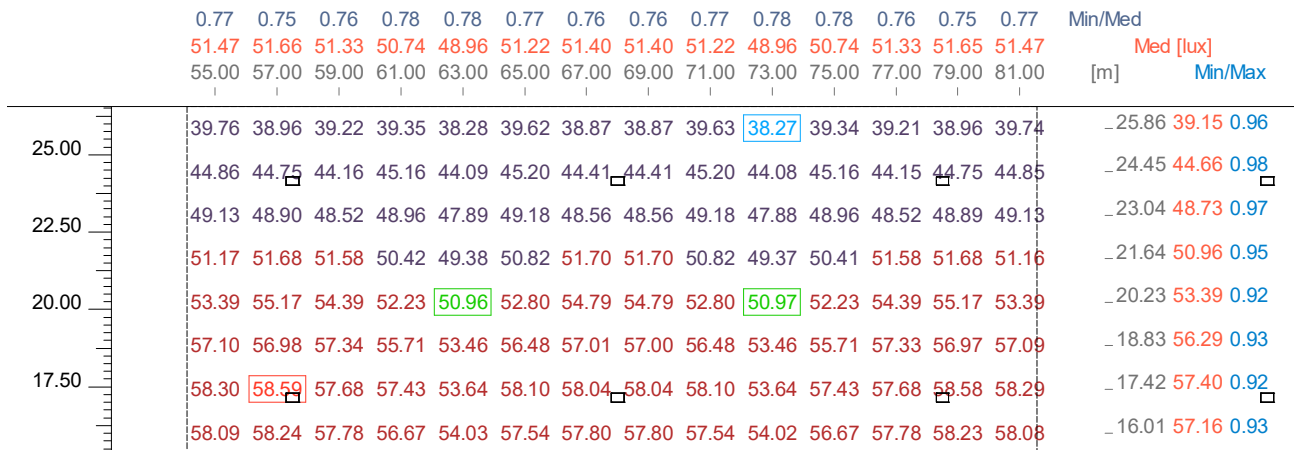


4.13 Valori di Illuminamento su: 5 - Autostrada A14 [Lp,c (Autostrada, Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	50.97 lx	38.27 lx	58.59 lx	0.75	0.65	0.87

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

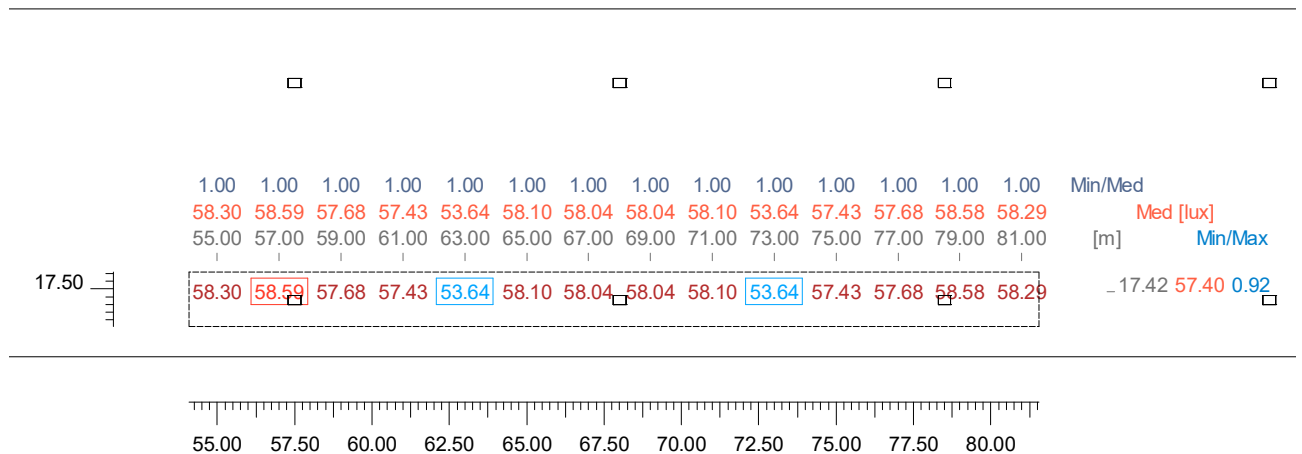


4.14 Valori di Illuminamento su: 5 - Autostrada A14 [UI,c1 (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	57.40 lx	53.64 lx	58.59 lx	0.93	0.92	0.98

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

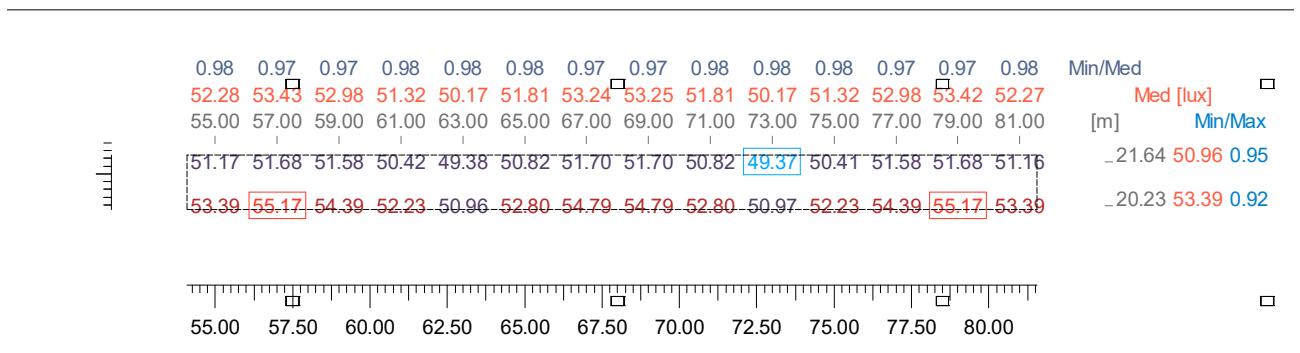


4.15 Valori di Illuminamento su: 5 - Autostrada A14 [UI,c2 (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.18 lx	49.37 lx	55.17 lx	0.95	0.89	0.95

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

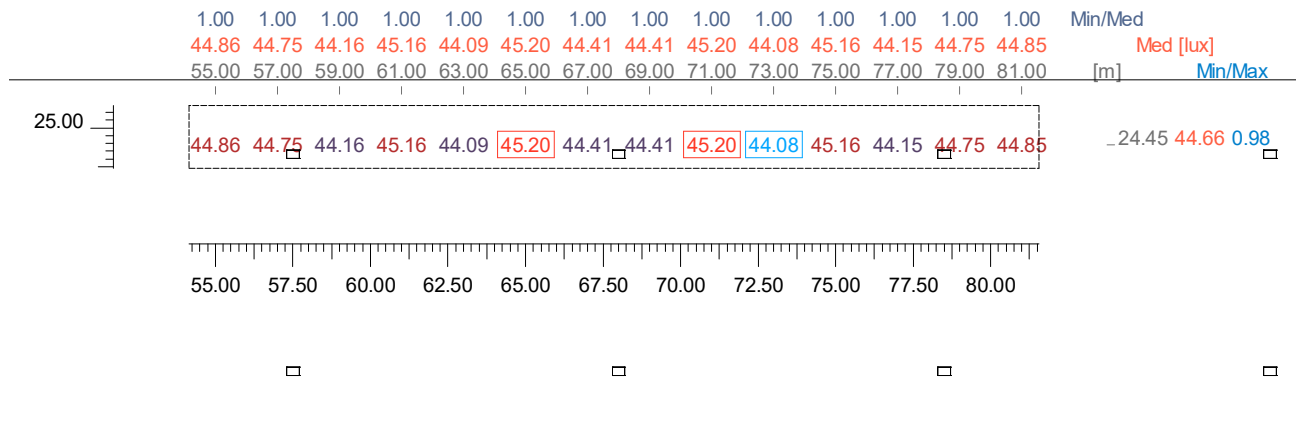


4.16 Valori di Illuminamento su: 5 - Autostrada A14 [UI,c3 (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	44.66 lx	44.08 lx	45.20 lx	0.99	0.98	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

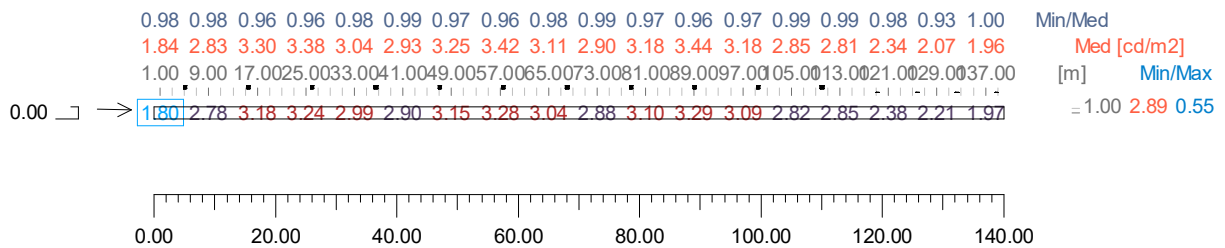


4.17 Valori delle Luminanze su: Parete Virtuale Sinistra - Oss. 1 (Lambert) [x=-60.00 y=2.14] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.96 cd/m ²	1.80 cd/m ²	3.59 cd/m ²	0.61	0.50	0.82

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

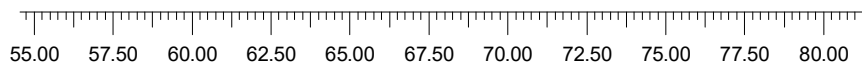
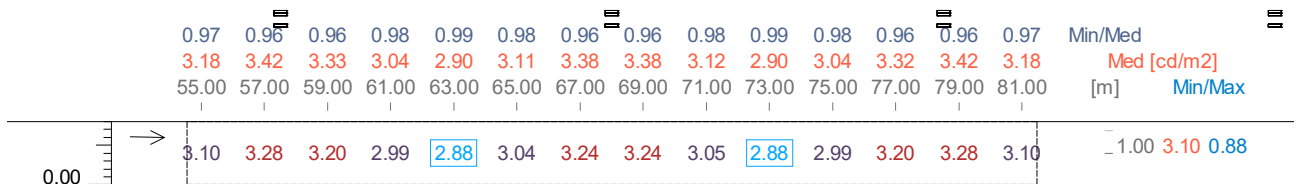


4.18 Valori delle Luminanze su: Parete Virtuale Sinistra [Lp,ps (Autostrada - Sezione 2)] - Oss. 1 (Lam

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.19 cd/m2	2.88 cd/m2	3.57 cd/m2	0.90	0.81	0.90

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

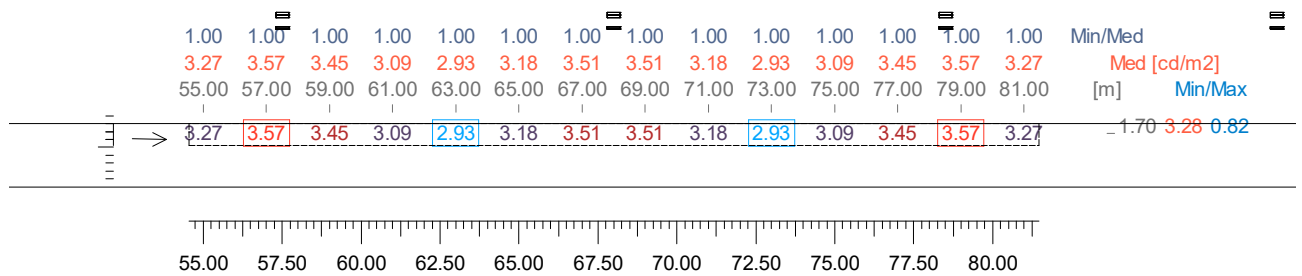


4.19 Valori delle Luminanze su: Parete Virtuale Sinistra [UI,ps (Autostrada - Sezione 2)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.28 cd/m2	2.93 cd/m2	3.57 cd/m2	0.89	0.82	0.92

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

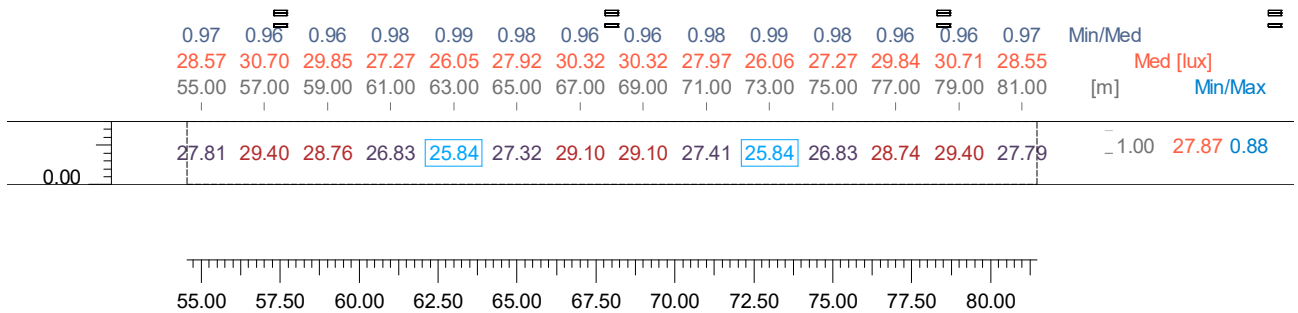


4.20 Valori di Illuminamento su: Parete Virtuale Sinistra [Lp,ps (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	28.67 lx	25.84 lx	32.02 lx	0.90	0.81	0.90

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

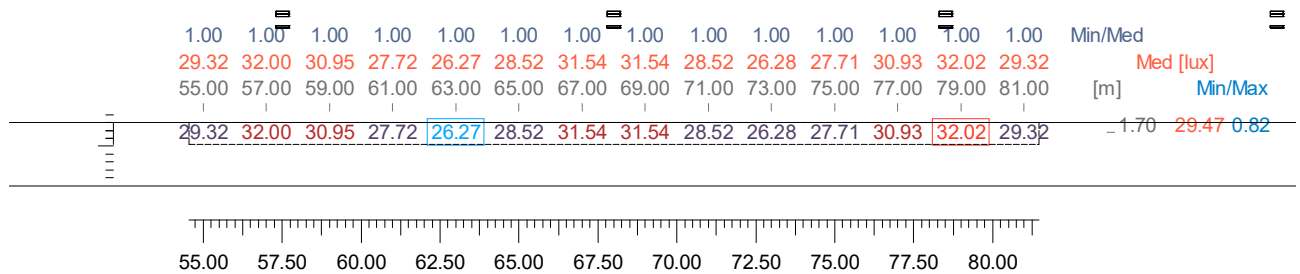


4.21 Valori di Illuminamento su: Parete Virtuale Sinistra [U,ps (Autostrada - Sezione 2)_]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	29.47 lx	26.27 lx	32.02 lx	0.89	0.82	0.92

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



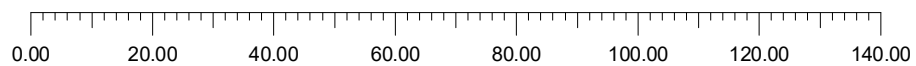
4.22 Valori delle Luminanze su: Parete Virtuale Destra - Oss. 2 (Lambert) [x=-60.00 y=5.31] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.22 cd/m2	1.54 cd/m2	4.29 cd/m2	0.48	0.36	0.75

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

Min/Med	0.94	1.00	0.99	0.95	0.95	0.99	0.99	0.95	0.95	0.99	1.00	0.96	0.94	0.97	0.99	0.98	0.99	0.89		
Med [cd/m2]	3.05	3.07	3.32	3.93	3.84	3.22	3.22	3.84	3.94	3.33	3.14	3.72	4.00	3.39	2.35	1.81	1.99	1.74		
Min/Max [m]	137.00	29.00	21.00	13.00	05.00	07.00	08.00	08.00	1.00	07.00	06.00	05.00	07.00	04.00	04.00	03.00	02.00	17.00	9.00	1.00
0.40 3.12 1.00 =>	2.87	3.06	3.28	3.72	3.66	3.20	3.20	3.67	3.72	3.29	3.14	3.58	3.77	3.30	2.38	1.84	1.96	1.54	0.00	

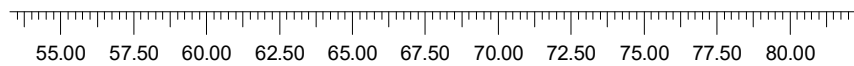
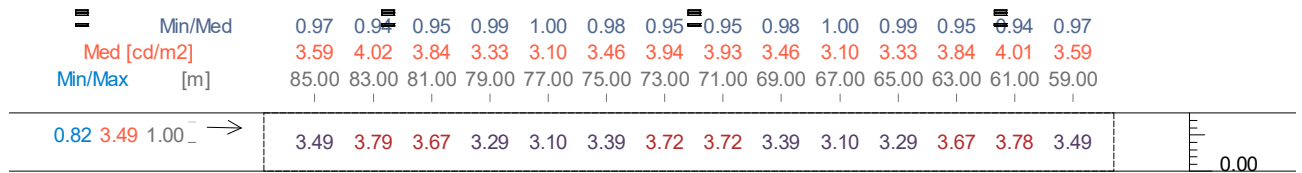


4.23 Valori delle Luminanze su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 2)] - Oss. 2 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.61 cd/m2	3.09 cd/m2	4.25 cd/m2	0.86	0.73	0.85

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

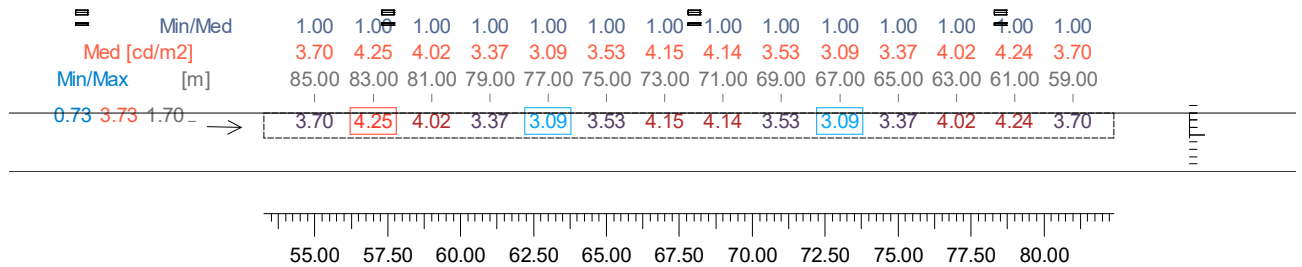


4.24 Valori delle Luminanze su: Parete Virtuale Destra [UI,pd (Tangenziale - Sezione 2)] - Oss. 2 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.73 cd/m2	3.09 cd/m2	4.25 cd/m2	0.83	0.73	0.88

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

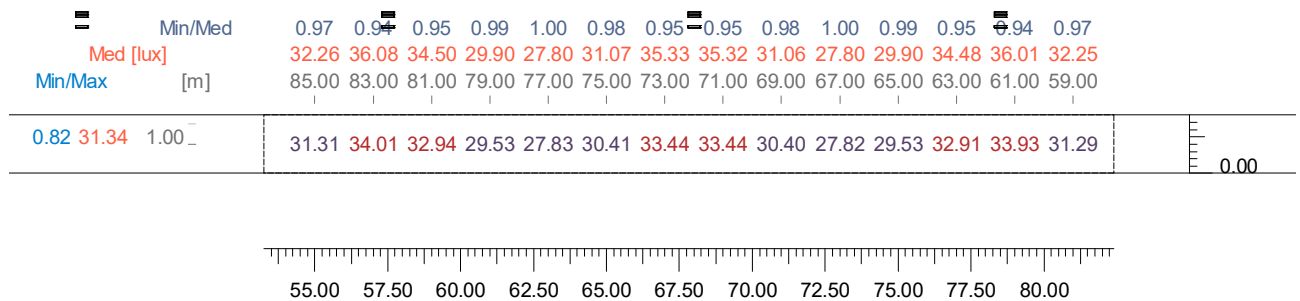


4.25 Valori di Illuminamento su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 2)_]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	32.41 lx	27.78 lx	38.15 lx	0.86	0.73	0.85

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

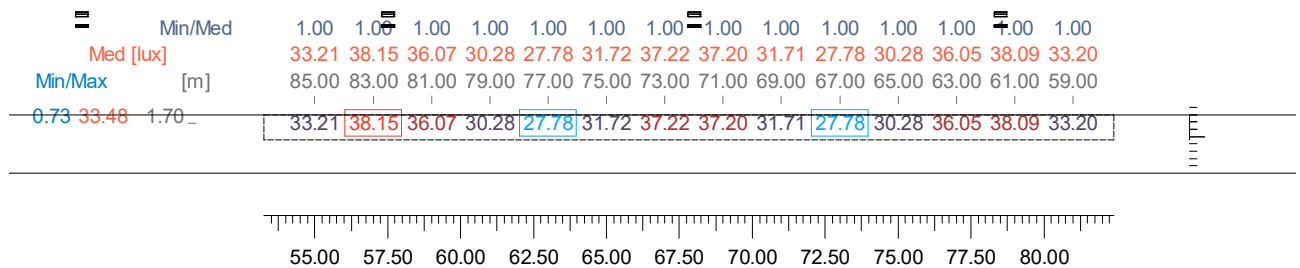


4.26 Valori di Illuminamento su: Parete Virtuale Destra [UI,pd (Tangenziale - Sezione 2)_]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	33.48 lx	27.78 lx	38.15 lx	0.83	0.73	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

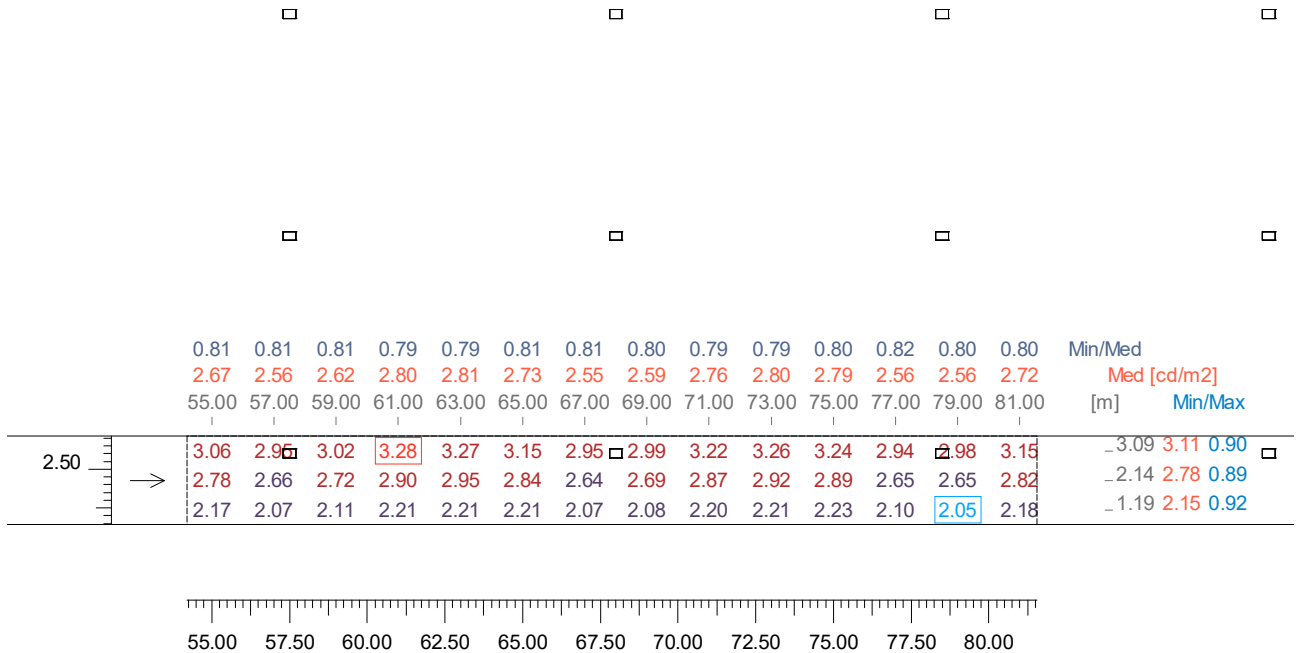


4.27 Valori delle Luminanze su: 2 - Carreggiata [Lp,cEM (Tangenziale - Sezione 2)] - Oss. 1 [x=-60.00 y=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.68 cd/m2	2.05 cd/m2	3.28 cd/m2	0.76	0.62	0.82

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

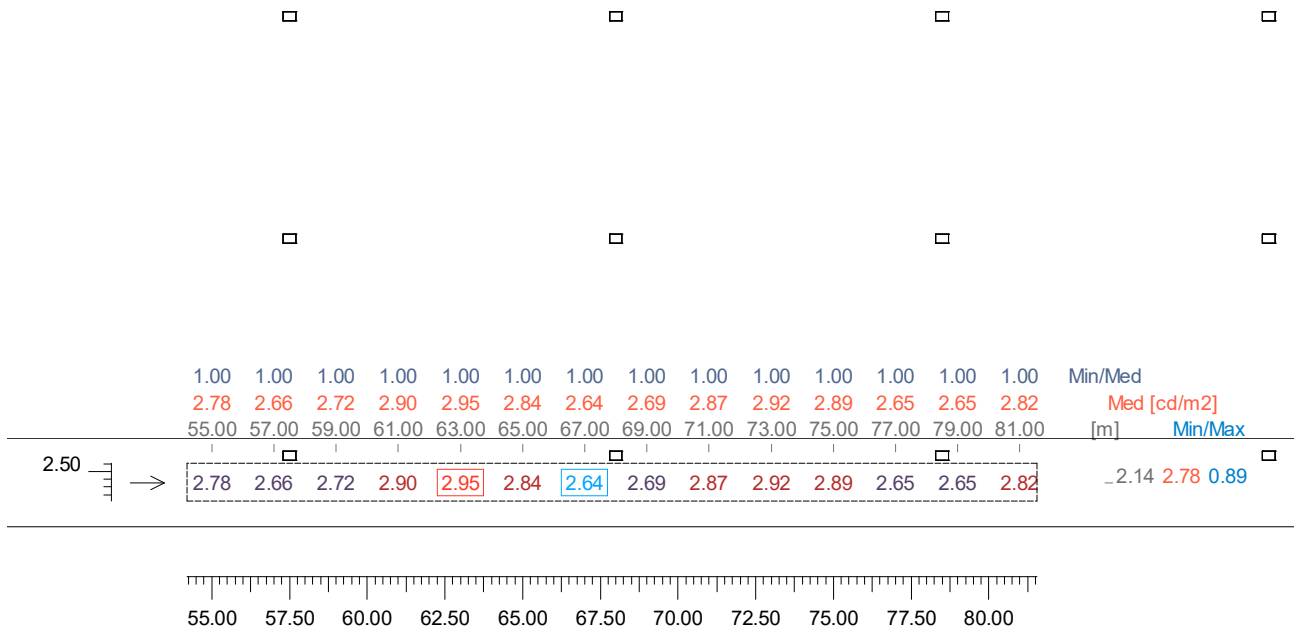


4.28 Valori delle Luminanze su: 2 - Carreggiata [UI,cEM (Tangenziale - Sezione 2)] - Oss. 1 [x=-60.00 y=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.78 cd/m ²	2.64 cd/m ²	2.95 cd/m ²	0.95	0.89	0.94

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

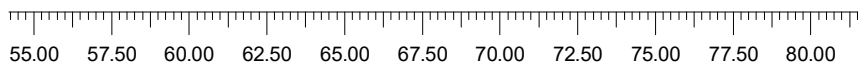
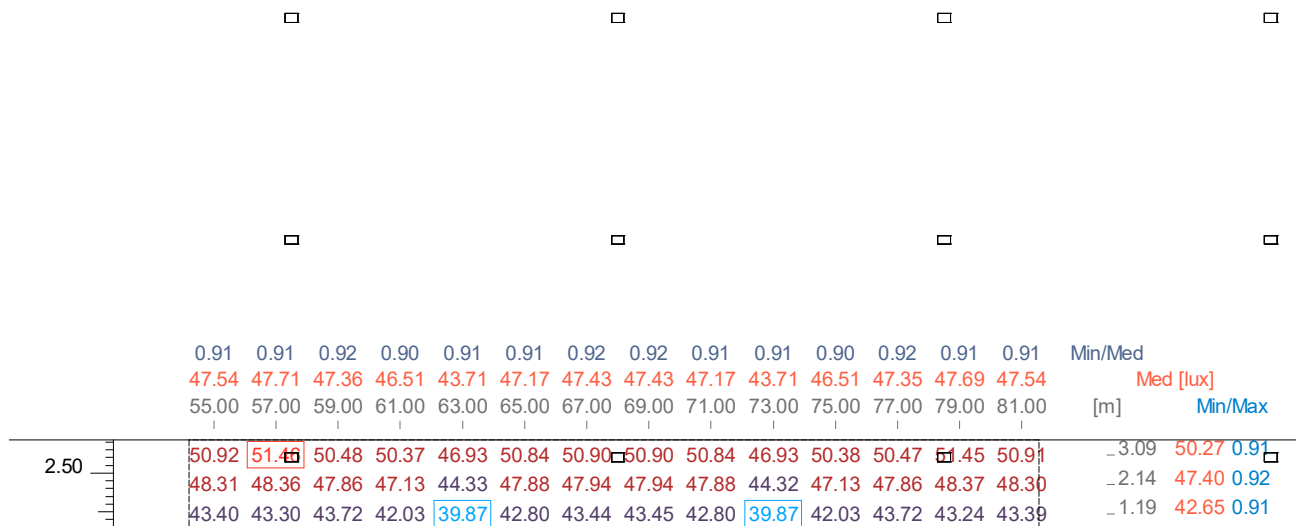


4.29 Valori di Illuminamento su: 2 - Carreggiata [Lp,cEM (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	46.77 lx	39.87 lx	51.46 lx	0.85	0.77	0.91

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

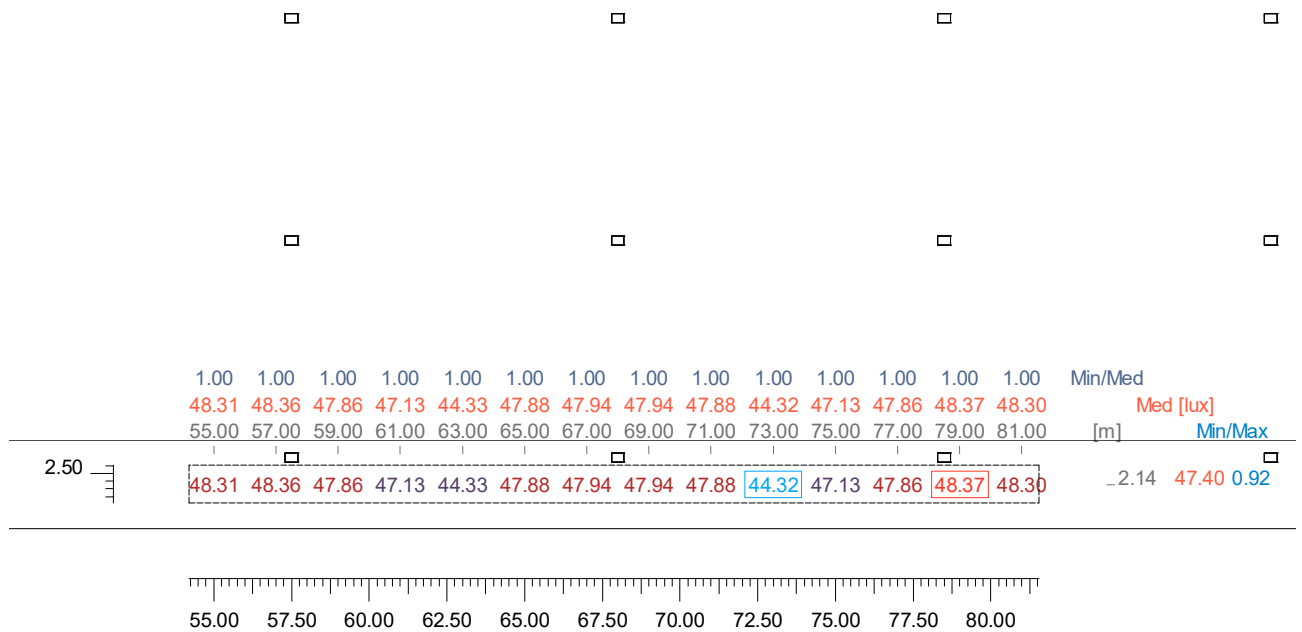


4.30 Valori di Illuminamento su: 2 - Carreggiata [UI,cEM (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	47.40 lx	44.32 lx	48.37 lx	0.94	0.92	0.98

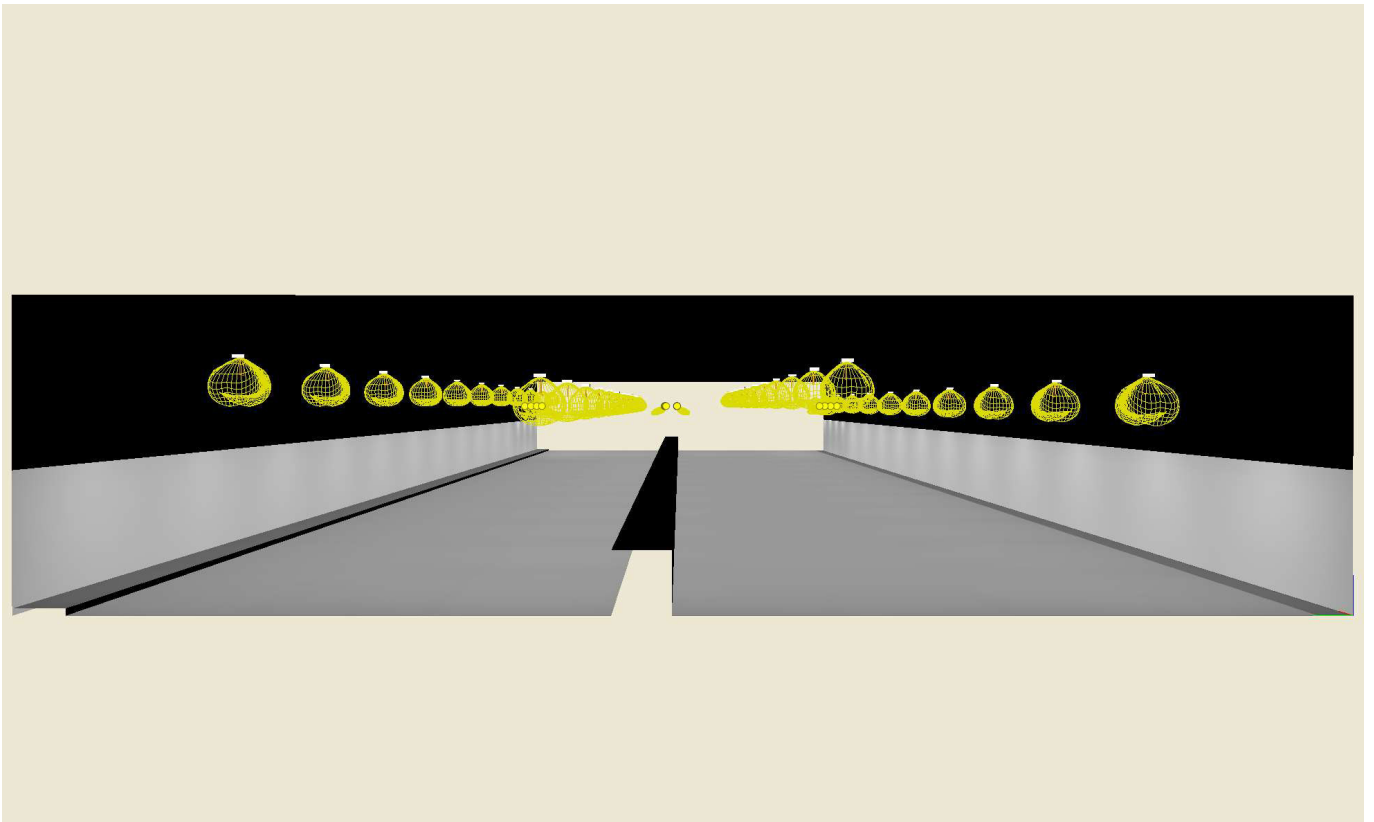
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



5. Immagini

5.1 Immagini



5.2 Immagini



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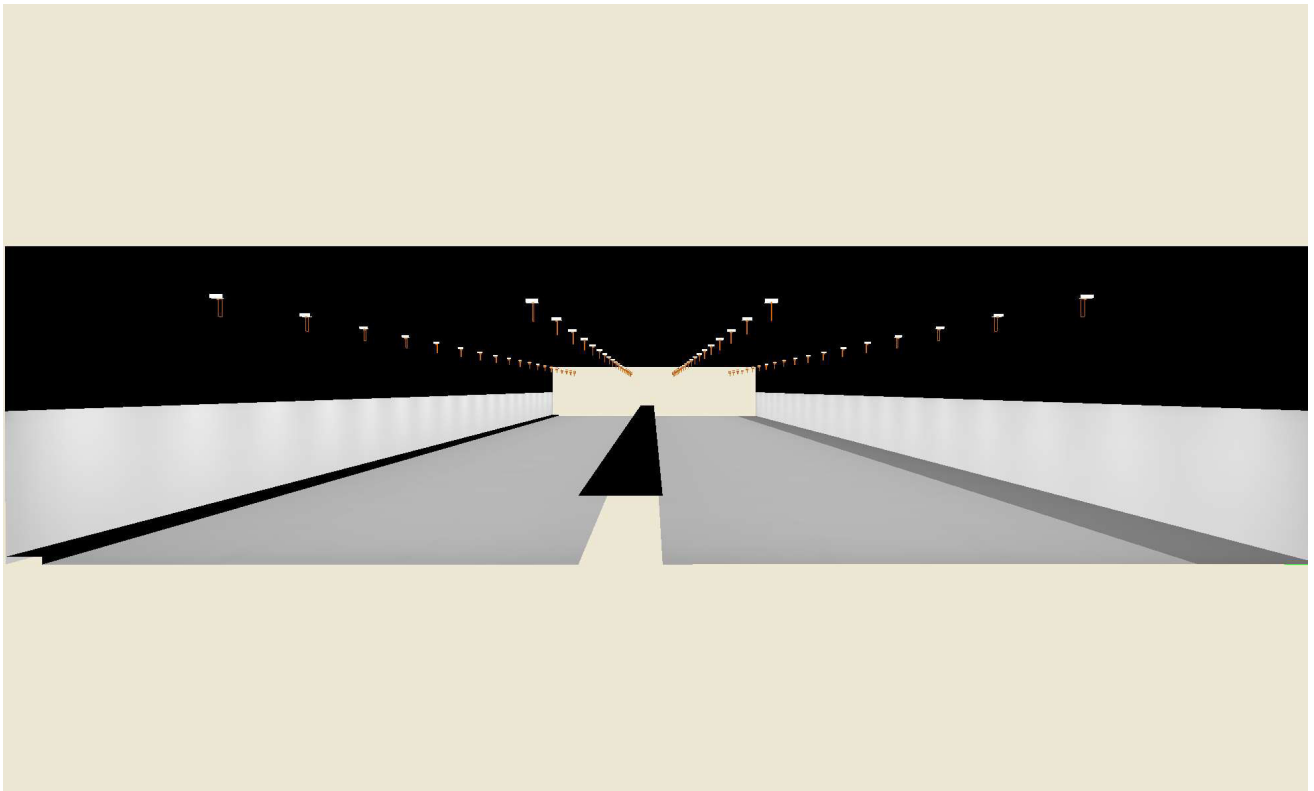
Galleria San Donnino

Note Installazione: Permanente - Autostrada + Tangenziale - Sezione 3
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 17/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria 6.61m
Fattore di manutenzione 80%
H. corpi illuminanti come da tabella sotto

Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

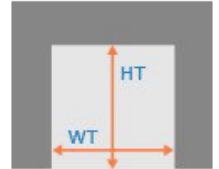
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

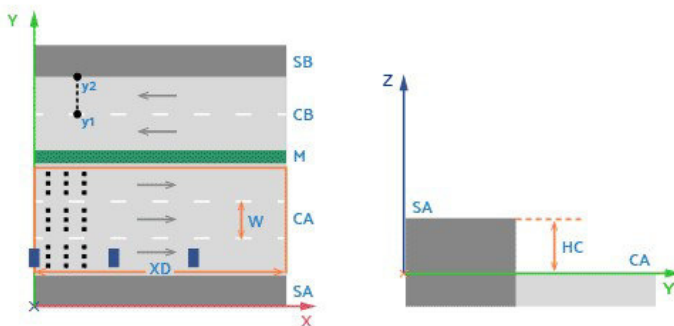
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice	Cubo (A)
Larghezza (WT)	25.81 m
Altezza (HT)	6.23 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%

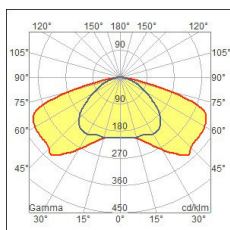


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Marciapiede	Pista Ciclo/Pedonale	Marciapiede	--->	2.44	0.00	2.44	3	3	0.00		0.3000
2. Tangenziale	Carrabile			10.50	2.44	12.94	7		0.00	C2	0.0560
	2.1	Corsia 1	--->	3.50	2.44	5.94		3			
	2.2	Corsia 2	--->	3.50	5.94	9.44		3			
	2.3	Corsia 3	--->	3.50	9.44	12.94		3			
3. Mediana Central	Secondaria	Mediana Central	--->	1.65	12.94	14.59	3	3	1.35		0.0000
4. Autostrada A14	Carrabile			10.50	14.59	25.09	7		0.00	C2	0.0560
	4.1	Corsia 1	--->	3.50	14.59	18.09		3			
	4.2	Corsia 2	--->	3.50	18.09	21.59		3			
	4.3	Corsia 3	--->	3.50	21.59	25.09		3			
5. Marciapiede B	Pista Ciclo/Pedonale	Marciapiede	--->	0.72	25.09	25.81	3	3	0.15		0.3000

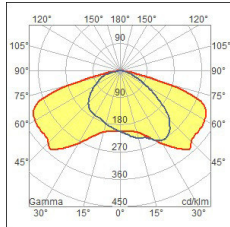


1.2 Informazioni Apparecchi/Rilievi

Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	38	Sorg-A	1



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	4452.00	0.80	100 %	255,255,255	38	Sorg-B	1

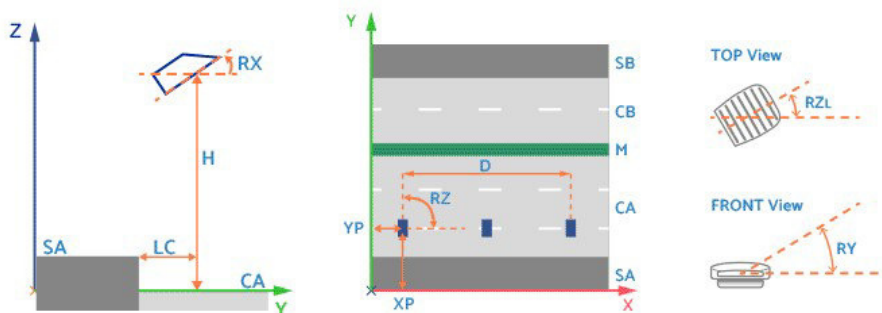


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	38
Sorg-B		16D600 30W	16D600 30W	30.00	0.0000	4452	6000	38

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altez.App. [m] (H)	Num. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila B	A		5.00	3.50	5.45	19	10.50	0.00	189.00	0	0	-0
Fila B	B		5.00	10.50	5.35	19	10.50	0.00	189.00	0	180	-0
Fila B	B		5.00	15.81	5.35	19	10.50	0.00	189.00	0	0	-0
Fila B	A		5.00	22.81	5.45	19	10.50	0.00	189.00	0	0	-0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Marciapiede	Risultati	EAV = 36.1 lux	EMIN = 16.48 lux		
2 - Tangenziale	Risultati	LAV = 2.54 cd/m ²	Uo(L) = 0.30	UL = 0.27	fTI = 9 %
	Oss. 1) [x=-60.00 y=4.19] m	LAV = 2.55 cd/m ²	Uo(L) = 0.30 *	UL = 0.27 *	
	Oss. 2) [x=-60.00 y=7.69] m	LAV = 2.55 cd/m ²	Uo(L) = 0.30	UL = 0.37	
	Oss. 3) [x=-60.00 y=11.19] m	LAV = 2.54 cd/m ² *	Uo(L) = 0.30	UL = 0.29	
	Oss.Ti 1) [x=-5.86 y=4.19] m				fTI = 8.60 % *
	Oss.Ti 2) [x=-5.86 y=7.69] m				fTI = 8.33 %
	Oss.Ti 3) [x=-5.86 y=11.19] r				fTI = 8.41 %
	Lv = 0.28				
4 - Autostrada A14	Risultati	LAV = 2.51 cd/m ²	Uo(L) = 0.27	UL = 0.26	fTI = 9 %
	Oss. 1) [x=-60.00 y=16.34] m	LAV = 2.51 cd/m ² *	Uo(L) = 0.27	UL = 0.28	
	Oss. 2) [x=-60.00 y=19.84] m	LAV = 2.53 cd/m ²	Uo(L) = 0.27	UL = 0.37	
	Oss. 3) [x=-60.00 y=23.34] m	LAV = 2.54 cd/m ²	Uo(L) = 0.27 *	UL = 0.26 *	
	Oss.Ti 1) [x=-5.86 y=16.34] r				fTI = 9.37 % *
	Oss.Ti 2) [x=-5.86 y=19.84] r				fTI = 8.14 %
	Oss.Ti 3) [x=-5.86 y=23.34] r				fTI = 8.10 %
	Lv = 0.30				
5 - Marciapiede B	Risultati	EAV = 35.1 lux	EMIN = 17.54 lux		

Riepilogo Uniformità di Luminari:

Sezione Permanente	[10.00..190.00] m	(Luminanza Costante)		
Parete Destra	LAV%,(pd/c,o1) = 121.6 %	LAV,pd=3.20 cd/m ²	Uo,pd=0.88	Ul,pd=0.78 (y=1.70 m)
Parete Sinistra	LAV%,(ps/c,o1) = 123.6 %	LAV,ps=3.25 cd/m ²	Uo,ps=0.84	Ul,ps=0.75 (y=1.70 m)
1 - Marciapiede	LAV%,(md/c,o1) = 133.9 %	LAV,md,o1=3.52 cd/m ²	Uo,md,o1=0.81	Ul,o1=0.91 (y=1.22 m)
2 - Tangenziale	---	LAV,c,o3=2.62 cd/m ²	Uo,c,o1=0.72	Ul,o1=0.75 (y=4.19 m)
---	Oss. 1) [x=-60.00 y=4.19] m	LAV,c,o1=2.63 cd/m ²	Uo,c,o1=0.72 *	Ul,o1=0.75 (y=4.19 m) *
---	Oss. 2) [x=-60.00 y=7.69] m	LAV,c,o2=2.63 cd/m ²	Uo,c,o2=0.73	Ul,o2=0.84 (y=7.69 m)
---	Oss. 3) [x=-60.00 y=11.19] m	LAV,c,o3=2.62 cd/m ² *	Uo,c,o3=0.74	Ul,o3=0.78 (y=11.19 m)
4 - Autostrada A14	---	LAV,c,o1=2.59 cd/m ²	Uo,c,o1=0.64	Ul,o3=0.74 (y=23.34 m)
---	Oss. 1) [x=-60.00 y=16.34] m	LAV,c,o1=2.59 cd/m ² *	Uo,c,o1=0.64 *	Ul,o1=0.76 (y=16.34 m)
---	Oss. 2) [x=-60.00 y=19.84] m	LAV,c,o2=2.61 cd/m ²	Uo,c,o2=0.67	Ul,o2=0.84 (y=19.84 m)
---	Oss. 3) [x=-60.00 y=23.34] m	LAV,c,o3=2.62 cd/m ²	Uo,c,o3=0.68	Ul,o3=0.74 (y=23.34 m)
5 - Marciapiede B	LAV%,(ms/c,o1) = 130.0 %	LAV,ms,o1=3.42 cd/m ²	Uo,ms,o1=0.89	Ul,o1=0.86 (y=25.45 m)

pd: Parete Destra ps: Parete Sinistra c: Carreggiata cm: Corsie di Marcia
md: Marciapiede Destro ms: Marciapiede Sinistro o: Osservatore

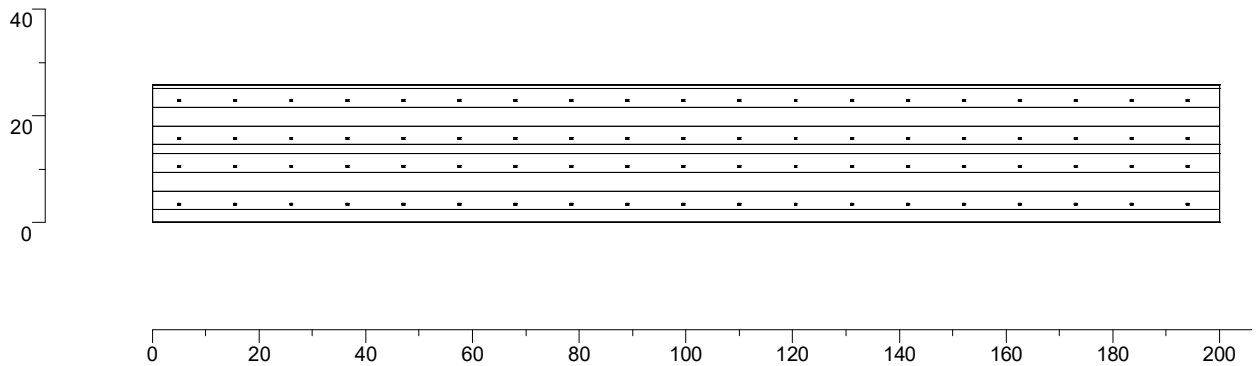
Inquinamento Luminoso

Rapporto Medio - Rn -

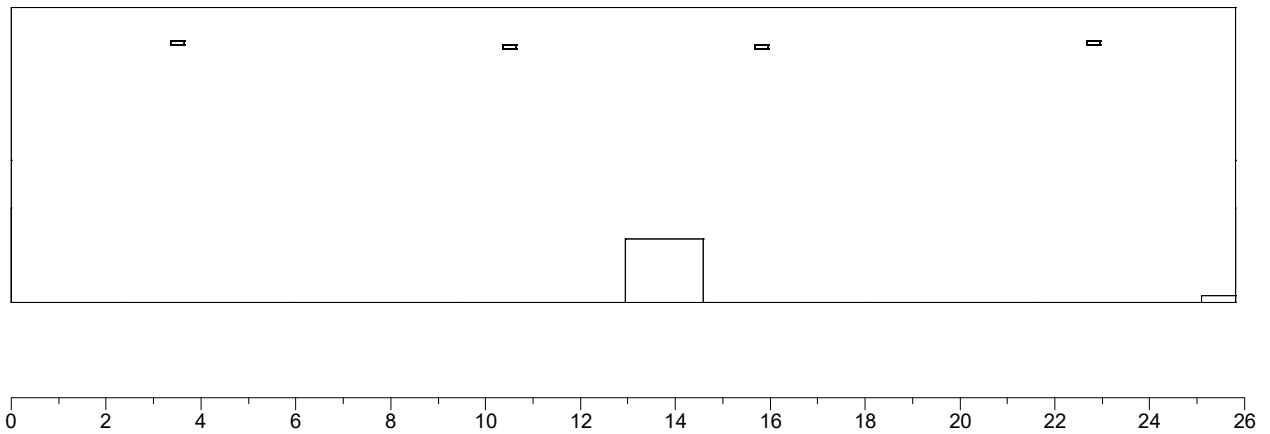
0.00 %

2. Viste Ambiente

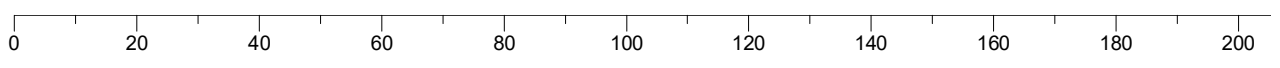
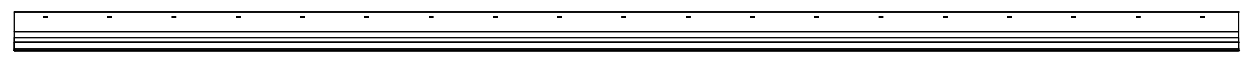
2.1 Vista 2D in Pianta



2.2 Vista Laterale

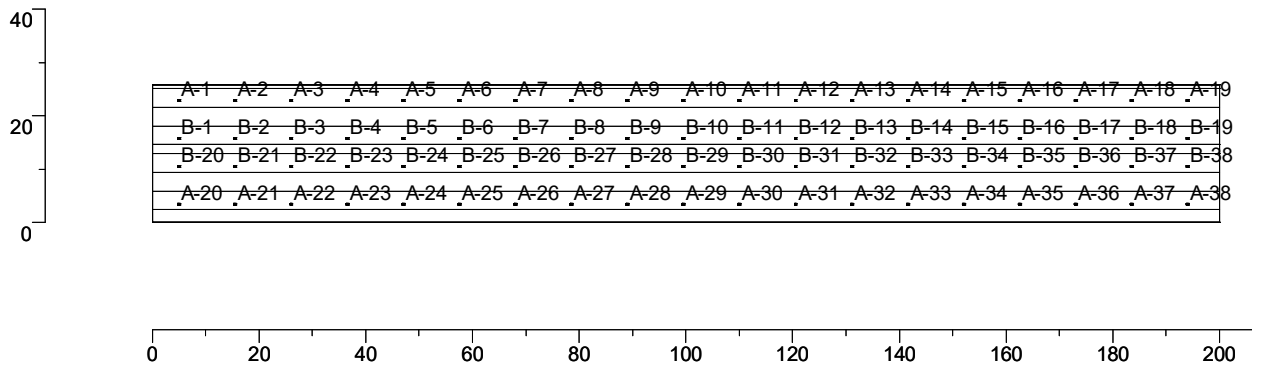


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	5.00	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-2	100 %	15.50	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-3	100 %	26.00	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-4	100 %	36.50	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-5	100 %	47.00	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-6	100 %	57.50	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-7	100 %	68.00	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-8	100 %	78.50	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-9	100 %	89.00	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-10	100 %	99.50	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-11	100 %	110.00	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-12	100 %	120.50	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-13	100 %	131.00	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-14	100 %	141.50	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-15	100 %	152.00	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-16	100 %	162.50	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-17	100 %	173.00	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-18	100 %	183.50	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-19	100 %	194.00	22.81	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-20	100 %	5.00	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-21	100 %	15.50	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-22	100 %	26.00	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-23	100 %	36.50	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-24	100 %	47.00	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-25	100 %	57.50	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-26	100 %	68.00	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-27	100 %	78.50	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-28	100 %	89.00	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-29	100 %	99.50	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-30	100 %	110.00	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-31	100 %	120.50	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-32	100 %	131.00	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-33	100 %	141.50	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-34	100 %	152.00	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-35	100 %	162.50	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-36	100 %	173.00	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-37	100 %	183.50	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-38	100 %	194.00	3.50	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-1	100 %	5.00	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-2	100 %	15.50	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-3	100 %	26.00	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-4	100 %	36.50	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-5	100 %	47.00	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-6	100 %	57.50	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-7	100 %	68.00	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-8	100 %	78.50	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-9	100 %	89.00	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-10	100 %	99.50	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-11	100 %	110.00	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-12	100 %	120.50	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-13	100 %	131.00	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-14	100 %	141.50	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-15	100 %	152.00	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-16	100 %	162.50	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-17	100 %	173.00	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-18	100 %	183.50	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-19	100 %	194.00	15.81	5.35	0.0	-0.0	0.0	Radiant 8S 16D600_W279A	16D600 30W
B-20	100 %	5.00	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-21	100 %	15.50	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-22	100 %	26.00	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-23	100 %	36.50	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-24	100 %	47.00	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-25	100 %	57.50	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-26	100 %	68.00	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-27	100 %	78.50	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-28	100 %	89.00	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-29	100 %	99.50	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
B-30	100 %	110.00	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-31	100 %	120.50	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-32	100 %	131.00	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-33	100 %	141.50	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-34	100 %	152.00	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-35	100 %	162.50	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-36	100 %	173.00	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-37	100 %	183.50	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
B-38	100 %	194.00	10.50	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8S 16D700_W244S	100 %	5.00	22.81	5.45	0.0	-0.0	0.0	5.00	22.81	0.00	0.0
A-2		Radiant 8S 16D700_W244S	100 %	15.50	22.81	5.45	0.0	-0.0	0.0	15.50	22.81	0.00	0.0
A-3		Radiant 8S 16D700_W244S	100 %	26.00	22.81	5.45	0.0	-0.0	0.0	26.00	22.81	0.00	0.0
A-4		Radiant 8S 16D700_W244S	100 %	36.50	22.81	5.45	0.0	-0.0	0.0	36.50	22.81	0.00	0.0
A-5		Radiant 8S 16D700_W244S	100 %	47.00	22.81	5.45	0.0	-0.0	0.0	47.00	22.81	0.00	0.0
A-6		Radiant 8S 16D700_W244S	100 %	57.50	22.81	5.45	0.0	-0.0	0.0	57.50	22.81	0.00	0.0
A-7		Radiant 8S 16D700_W244S	100 %	68.00	22.81	5.45	0.0	-0.0	0.0	68.00	22.81	0.00	0.0
A-8		Radiant 8S 16D700_W244S	100 %	78.50	22.81	5.45	0.0	-0.0	0.0	78.50	22.81	0.00	0.0
A-9		Radiant 8S 16D700_W244S	100 %	89.00	22.81	5.45	0.0	-0.0	0.0	89.00	22.81	0.00	0.0
A-10		Radiant 8S 16D700_W244S	100 %	99.50	22.81	5.45	0.0	-0.0	0.0	99.50	22.81	0.00	0.0
A-11		Radiant 8S 16D700_W244S	100 %	110.00	22.81	5.45	0.0	-0.0	0.0	110.00	22.81	0.00	0.0
A-12		Radiant 8S 16D700_W244S	100 %	120.50	22.81	5.45	0.0	-0.0	0.0	120.50	22.81	0.00	0.0
A-13		Radiant 8S 16D700_W244S	100 %	131.00	22.81	5.45	0.0	-0.0	0.0	131.00	22.81	0.00	0.0
A-14		Radiant 8S 16D700_W244S	100 %	141.50	22.81	5.45	0.0	-0.0	0.0	141.50	22.81	0.00	0.0
A-15		Radiant 8S 16D700_W244S	100 %	152.00	22.81	5.45	0.0	-0.0	0.0	152.00	22.81	0.00	0.0
A-16		Radiant 8S 16D700_W244S	100 %	162.50	22.81	5.45	0.0	-0.0	0.0	162.50	22.81	0.00	0.0
A-17		Radiant 8S 16D700_W244S	100 %	173.00	22.81	5.45	0.0	-0.0	0.0	173.00	22.81	0.00	0.0
A-18		Radiant 8S 16D700_W244S	100 %	183.50	22.81	5.45	0.0	-0.0	0.0	183.50	22.81	0.00	0.0
A-19		Radiant 8S 16D700_W244S	100 %	194.00	22.81	5.45	0.0	-0.0	0.0	194.00	22.81	0.00	0.0
A-20		Radiant 8S 16D700_W244S	100 %	5.00	3.50	5.45	0.0	-0.0	0.0	5.00	3.50	0.00	0.0
A-21		Radiant 8S 16D700_W244S	100 %	15.50	3.50	5.45	0.0	-0.0	0.0	15.50	3.50	0.00	0.0
A-22		Radiant 8S 16D700_W244S	100 %	26.00	3.50	5.45	0.0	-0.0	0.0	26.00	3.50	0.00	0.0
A-23		Radiant 8S 16D700_W244S	100 %	36.50	3.50	5.45	0.0	-0.0	0.0	36.50	3.50	0.00	0.0
A-24		Radiant 8S 16D700_W244S	100 %	47.00	3.50	5.45	0.0	-0.0	0.0	47.00	3.50	0.00	0.0
A-25		Radiant 8S 16D700_W244S	100 %	57.50	3.50	5.45	0.0	-0.0	0.0	57.50	3.50	0.00	0.0
A-26		Radiant 8S 16D700_W244S	100 %	68.00	3.50	5.45	0.0	-0.0	0.0	68.00	3.50	0.00	0.0
A-27		Radiant 8S 16D700_W244S	100 %	78.50	3.50	5.45	0.0	-0.0	0.0	78.50	3.50	0.00	0.0
A-28		Radiant 8S 16D700_W244S	100 %	89.00	3.50	5.45	0.0	-0.0	0.0	89.00	3.50	0.00	0.0
A-29		Radiant 8S 16D700_W244S	100 %	99.50	3.50	5.45	0.0	-0.0	0.0	99.50	3.50	0.00	0.0
A-30		Radiant 8S 16D700_W244S	100 %	110.00	3.50	5.45	0.0	-0.0	0.0	110.00	3.50	0.00	0.0
A-31		Radiant 8S 16D700_W244S	100 %	120.50	3.50	5.45	0.0	-0.0	0.0	120.50	3.50	0.00	0.0
A-32		Radiant 8S 16D700_W244S	100 %	131.00	3.50	5.45	0.0	-0.0	0.0	131.00	3.50	0.00	0.0
A-33		Radiant 8S 16D700_W244S	100 %	141.50	3.50	5.45	0.0	-0.0	0.0	141.50	3.50	0.00	0.0
A-34		Radiant 8S 16D700_W244S	100 %	152.00	3.50	5.45	0.0	-0.0	0.0	152.00	3.50	0.00	0.0
A-35		Radiant 8S 16D700_W244S	100 %	162.50	3.50	5.45	0.0	-0.0	0.0	162.50	3.50	0.00	0.0
A-36		Radiant 8S 16D700_W244S	100 %	173.00	3.50	5.45	0.0	-0.0	0.0	173.00	3.50	0.00	0.0
A-37		Radiant 8S 16D700_W244S	100 %	183.50	3.50	5.45	0.0	-0.0	0.0	183.50	3.50	0.00	0.0
A-38		Radiant 8S 16D700_W244S	100 %	194.00	3.50	5.45	0.0	-0.0	0.0	194.00	3.50	0.00	0.0
B-1		Radiant 8S 16D600_W279A	100 %	5.00	15.81	5.35	0.0	-0.0	0.0	5.00	15.81	0.00	0.0
B-2		Radiant 8S 16D600_W279A	100 %	15.50	15.81	5.35	0.0	-0.0	0.0	15.50	15.81	0.00	0.0
B-3		Radiant 8S 16D600_W279A	100 %	26.00	15.81	5.35	0.0	-0.0	0.0	26.00	15.81	0.00	0.0
B-4		Radiant 8S 16D600_W279A	100 %	36.50	15.81	5.35	0.0	-0.0	0.0	36.50	15.81	0.00	0.0
B-5		Radiant 8S 16D600_W279A	100 %	47.00	15.81	5.35	0.0	-0.0	0.0	47.00	15.81	0.00	0.0
B-6		Radiant 8S 16D600_W279A	100 %	57.50	15.81	5.35	0.0	-0.0	0.0	57.50	15.81	0.00	0.0
B-7		Radiant 8S 16D600_W279A	100 %	68.00	15.81	5.35	0.0	-0.0	0.0	68.00	15.81	0.00	0.0
B-8		Radiant 8S 16D600_W279A	100 %	78.50	15.81	5.35	0.0	-0.0	0.0	78.50	15.81	0.00	0.0
B-9		Radiant 8S 16D600_W279A	100 %	89.00	15.81	5.35	0.0	-0.0	0.0	89.00	15.81	0.00	0.0
B-10		Radiant 8S 16D600_W279A	100 %	99.50	15.81	5.35	0.0	-0.0	0.0	99.50	15.81	0.00	0.0
B-11		Radiant 8S 16D600_W279A	100 %	110.00	15.81	5.35	0.0	-0.0	0.0	110.00	15.81	0.00	0.0
B-12		Radiant 8S 16D600_W279A	100 %	120.50	15.81	5.35	0.0	-0.0	0.0	120.50	15.81	0.00	0.0
B-13		Radiant 8S 16D600_W279A	100 %	131.00	15.81	5.35	0.0	-0.0	0.0	131.00	15.81	0.00	0.0
B-14		Radiant 8S 16D600_W279A	100 %	141.50	15.81	5.35	0.0	-0.0	0.0	141.50	15.81	0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
	B-15	Radiant 8S 16D600_W279A	100 %	152.00	15.81	5.35	0.0	-0.0	0.0	152.00	15.81	0.00	0.0
	B-16	Radiant 8S 16D600_W279A	100 %	162.50	15.81	5.35	0.0	-0.0	0.0	162.50	15.81	0.00	0.0
	B-17	Radiant 8S 16D600_W279A	100 %	173.00	15.81	5.35	0.0	-0.0	0.0	173.00	15.81	0.00	0.0
	B-18	Radiant 8S 16D600_W279A	100 %	183.50	15.81	5.35	0.0	-0.0	0.0	183.50	15.81	0.00	0.0
	B-19	Radiant 8S 16D600_W279A	100 %	194.00	15.81	5.35	0.0	-0.0	0.0	194.00	15.81	0.00	0.0
	B-20	Radiant 8S 16D600_W279A	100 %	5.00	10.50	5.35	0.0	-0.0	180.0	5.00	10.50	0.00	0.0
	B-21	Radiant 8S 16D600_W279A	100 %	15.50	10.50	5.35	0.0	-0.0	180.0	15.50	10.50	0.00	0.0
	B-22	Radiant 8S 16D600_W279A	100 %	26.00	10.50	5.35	0.0	-0.0	180.0	26.00	10.50	0.00	0.0
	B-23	Radiant 8S 16D600_W279A	100 %	36.50	10.50	5.35	0.0	-0.0	180.0	36.50	10.50	0.00	0.0
	B-24	Radiant 8S 16D600_W279A	100 %	47.00	10.50	5.35	0.0	-0.0	180.0	47.00	10.50	0.00	0.0
	B-25	Radiant 8S 16D600_W279A	100 %	57.50	10.50	5.35	0.0	-0.0	180.0	57.50	10.50	0.00	0.0
	B-26	Radiant 8S 16D600_W279A	100 %	68.00	10.50	5.35	0.0	-0.0	180.0	68.00	10.50	0.00	0.0
	B-27	Radiant 8S 16D600_W279A	100 %	78.50	10.50	5.35	0.0	-0.0	180.0	78.50	10.50	0.00	0.0
	B-28	Radiant 8S 16D600_W279A	100 %	89.00	10.50	5.35	0.0	-0.0	180.0	89.00	10.50	0.00	0.0
	B-29	Radiant 8S 16D600_W279A	100 %	99.50	10.50	5.35	0.0	-0.0	180.0	99.50	10.50	0.00	0.0
	B-30	Radiant 8S 16D600_W279A	100 %	110.00	10.50	5.35	0.0	-0.0	180.0	110.00	10.50	0.00	0.0
	B-31	Radiant 8S 16D600_W279A	100 %	120.50	10.50	5.35	0.0	-0.0	180.0	120.50	10.50	0.00	0.0
	B-32	Radiant 8S 16D600_W279A	100 %	131.00	10.50	5.35	0.0	-0.0	180.0	131.00	10.50	0.00	0.0
	B-33	Radiant 8S 16D600_W279A	100 %	141.50	10.50	5.35	0.0	-0.0	180.0	141.50	10.50	0.00	0.0
	B-34	Radiant 8S 16D600_W279A	100 %	152.00	10.50	5.35	0.0	-0.0	180.0	152.00	10.50	0.00	0.0
	B-35	Radiant 8S 16D600_W279A	100 %	162.50	10.50	5.35	0.0	-0.0	180.0	162.50	10.50	0.00	0.0
	B-36	Radiant 8S 16D600_W279A	100 %	173.00	10.50	5.35	0.0	-0.0	180.0	173.00	10.50	0.00	0.0
	B-37	Radiant 8S 16D600_W279A	100 %	183.50	10.50	5.35	0.0	-0.0	180.0	183.50	10.50	0.00	0.0
	B-38	Radiant 8S 16D600_W279A	100 %	194.00	10.50	5.35	0.0	-0.0	180.0	194.00	10.50	0.00	0.0

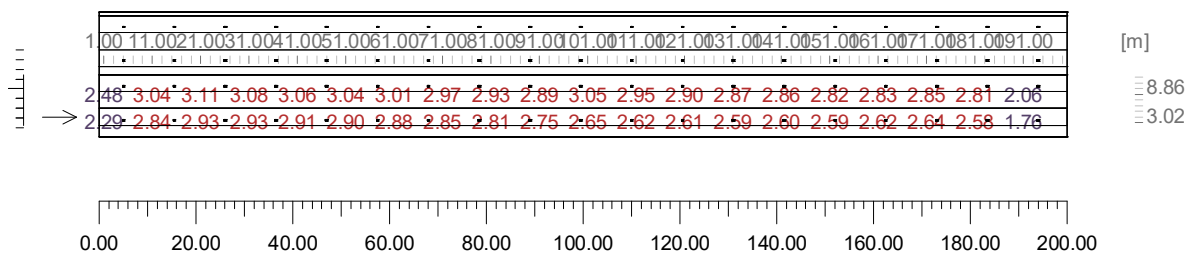
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 2 - Tangenziale - Oss. 1 [x=-60.00 y=4.19] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.55 cd/m2	0.77 cd/m2	3.22 cd/m2	0.30	0.24	0.79

Osservatore
Tipo Calcolo

[x=-60.00 y=4.19 z=1.50] m => [x=30.00 y=4.19 z=0.00] m
Dir.+Indir. (Accuratezza:2)

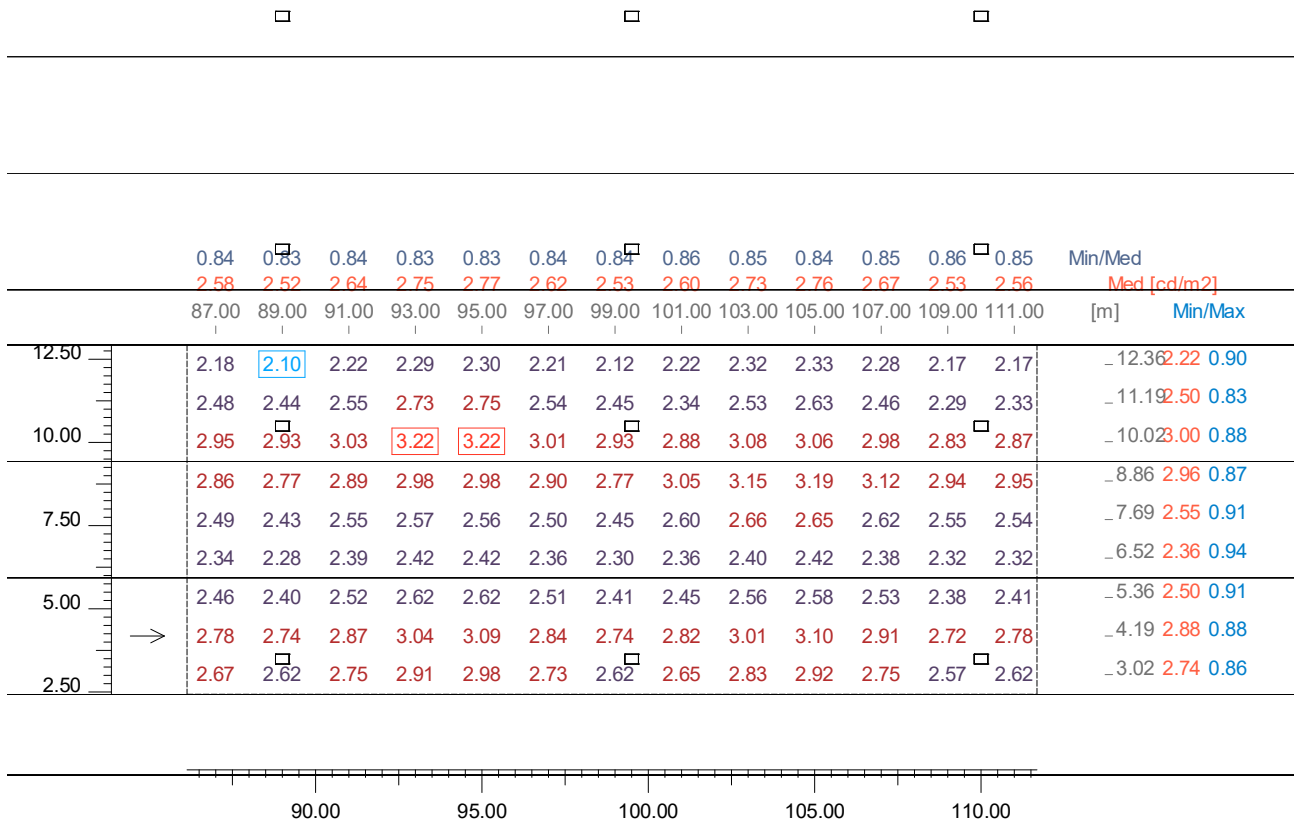


4.2 Valori delle Luminanze su: 2 - Tangenziale [Lp,c (Tangenziale, Sezione 3)] - Oss. 1 [x=-60.00 y=4.19

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.64 cd/m ²	2.10 cd/m ²	3.22 cd/m ²	0.80	0.65	0.82

Osservatore
Tipo Calcolo

[x=-60.00 y=4.19 z=1.50] m => [x=30.00 y=4.19 z=0.00] m
Dir.+Indir. (Accuratezza:2)

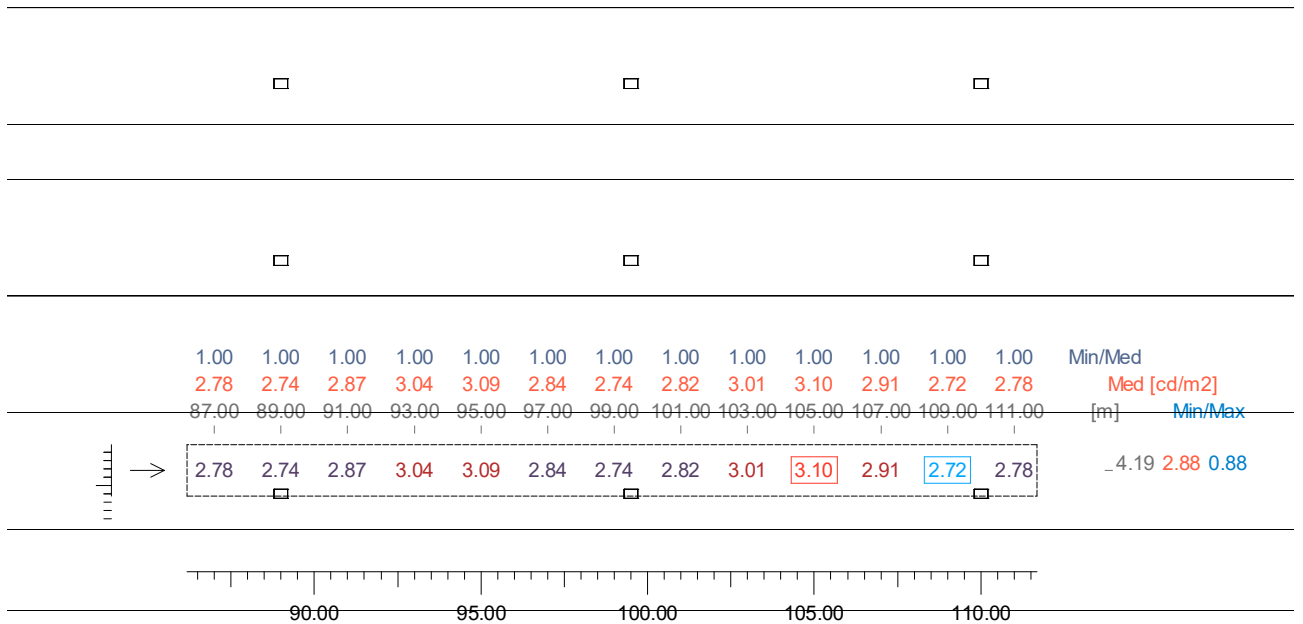


4.3 Valori delle Luminanze su: 2 - Tangenziale [UI,c1 (Tangenziale, Sezione 3)] - Oss. 1 [x=-60.00 y=4.19 z=1.50] m => [x=30.00 y=4.19 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.88 cd/m ²	2.72 cd/m ²	3.10 cd/m ²	0.94	0.88	0.93

Osservatore
Tipo Calcolo

[x=-60.00 y=4.19 z=1.50] m => [x=30.00 y=4.19 z=0.00] m
Dir.+Indir. (Accuratezza:2)

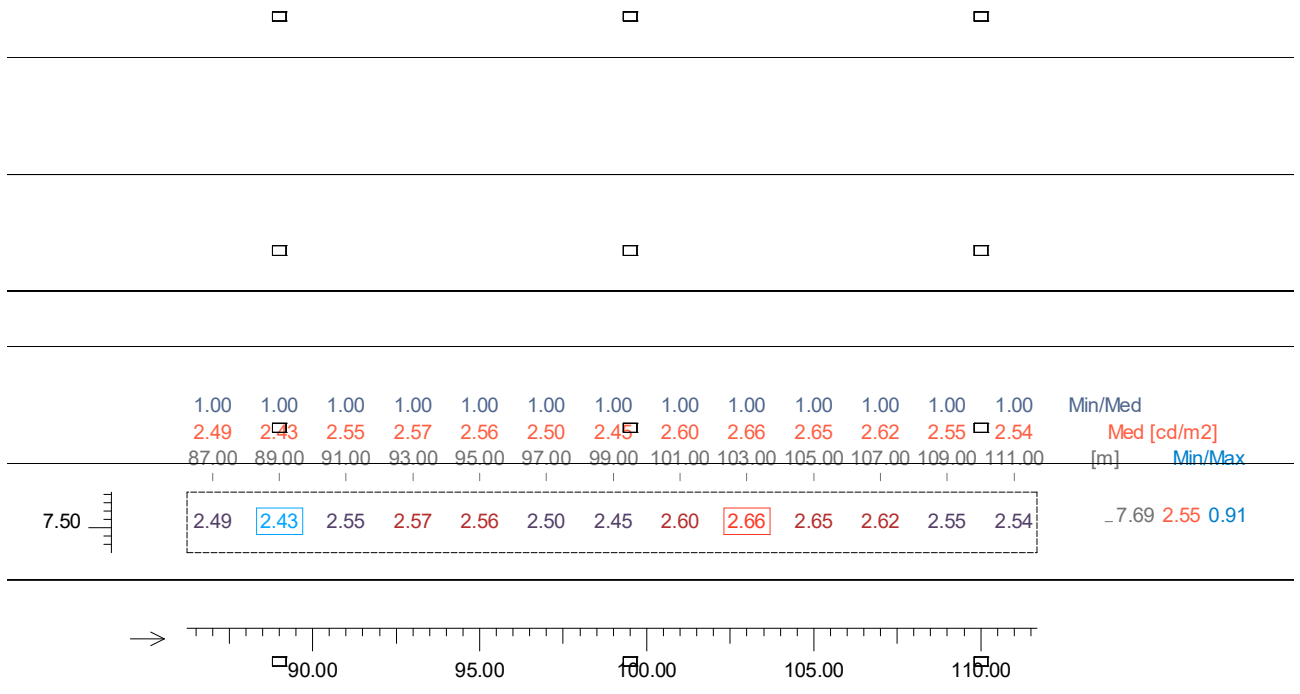


4.4 Valori delle Luminanze su: 2 - Tangenziale [UI,c2 (Tangenziale, Sezione 3)] - Oss. 1 [x=-60.00 y=4.19 z=1.50] m => [x=30.00 y=4.19 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.55 cd/m2	2.43 cd/m2	2.66 cd/m2	0.95	0.91	0.96

Osservatore
Tipo Calcolo

[x=-60.00 y=4.19 z=1.50] m => [x=30.00 y=4.19 z=0.00] m
Dir.+Indir. (Accuratezza:2)

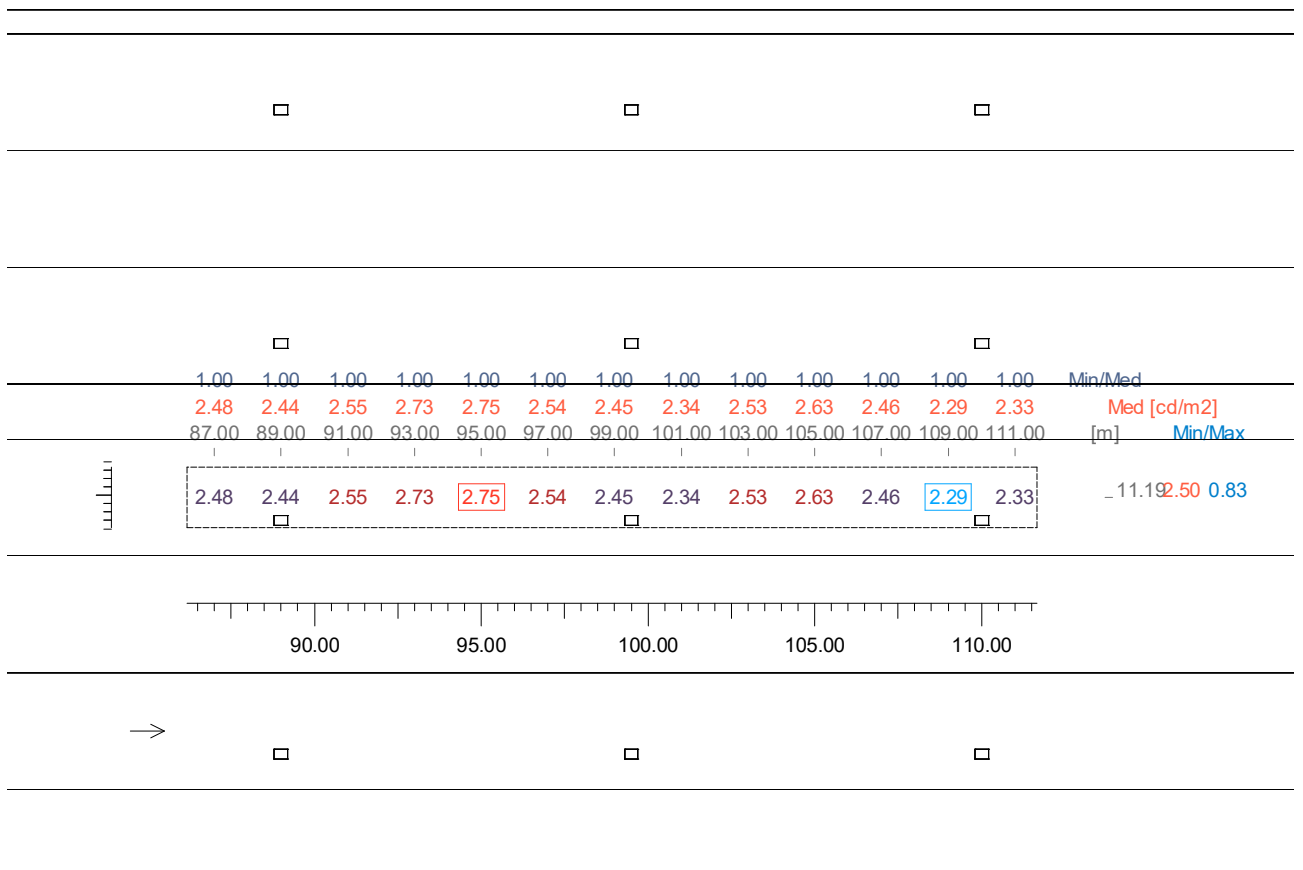


4.5 Valori delle Luminanze su: 2 - Tangenziale [UI,c3 (Tangenziale, Sezione 3)] - Oss. 1 [x=-60.00 y=4.19 z=1.50] m => [x=30.00 y=4.19 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.50 cd/m2	2.29 cd/m2	2.75 cd/m2	0.92	0.83	0.91

Osservatore
Tipo Calcolo

[x=-60.00 y=4.19 z=1.50] m => [x=30.00 y=4.19 z=0.00] m
Dir.+Indir. (Accuratezza:2)

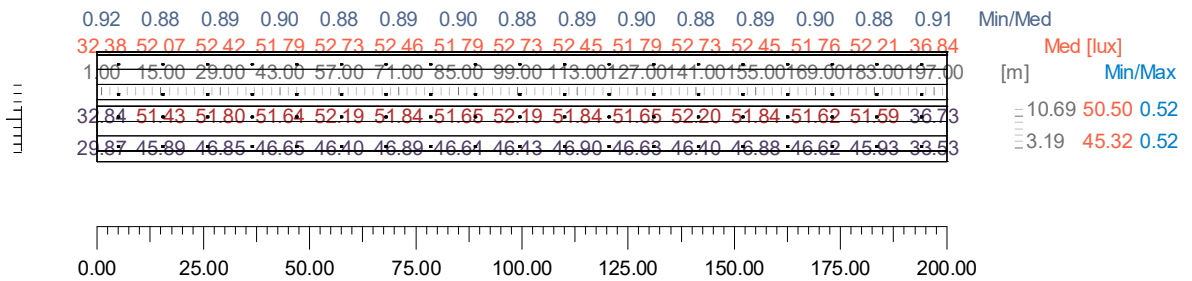


4.6 Valori di Illuminamento su: 2 - Tangenziale

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	50.97 lx	24.43 lx	58.02 lx	0.48	0.42	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

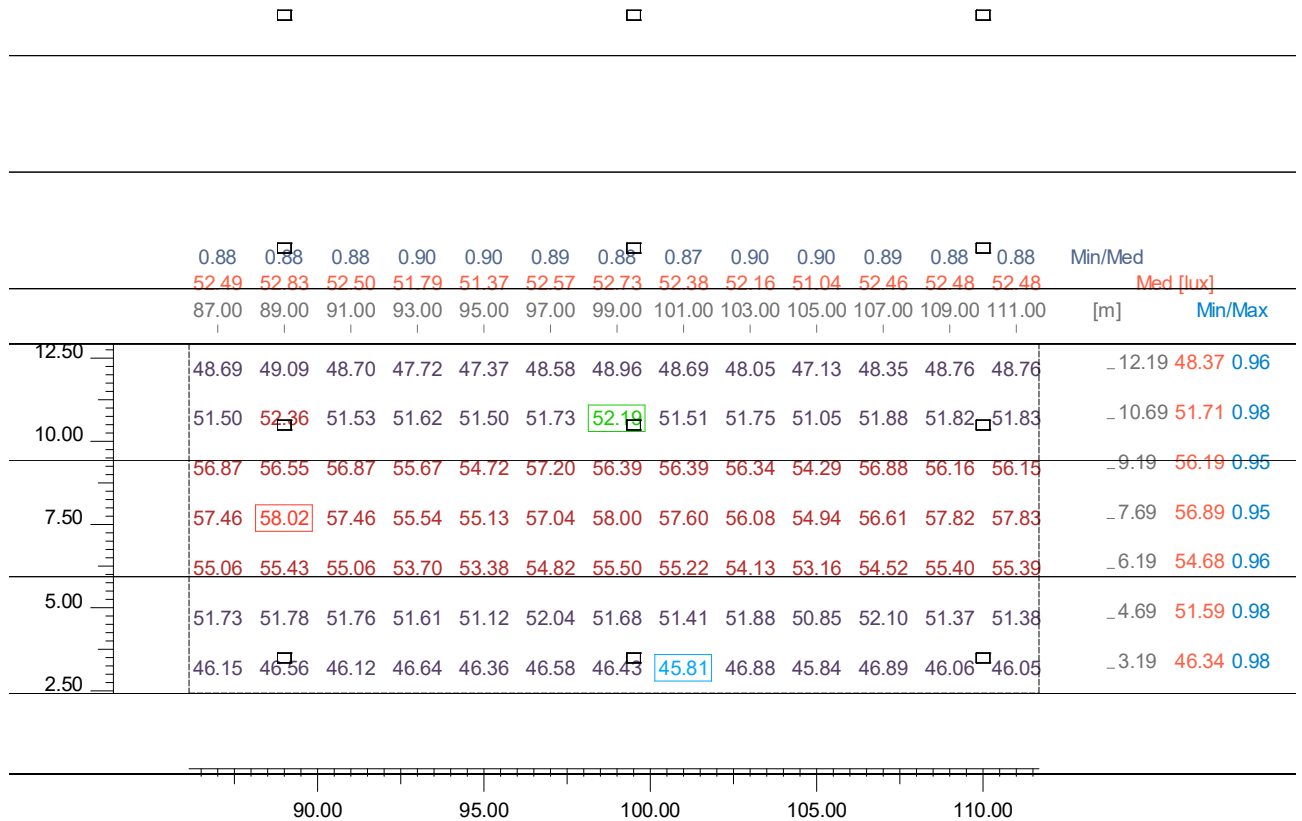


4.7 Valori di Illuminamento su: 2 - Tangenziale [Lp,c (Tangenziale, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.25 lx	45.81 lx	58.02 lx	0.88	0.79	0.90

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

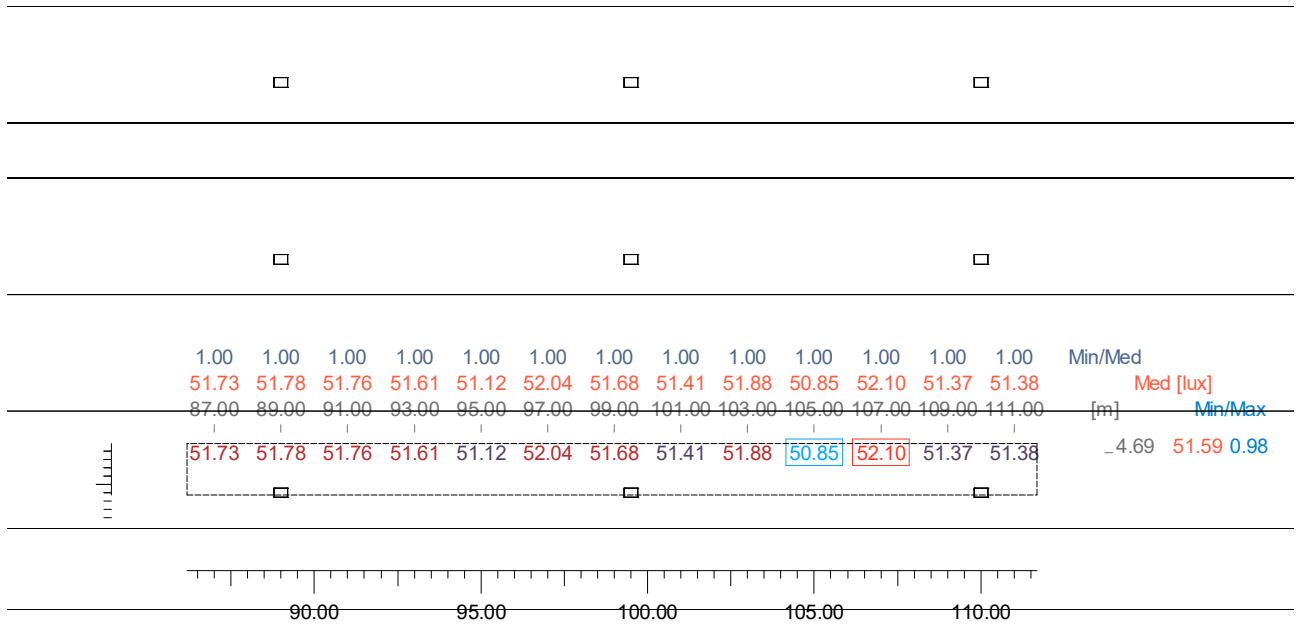


4.8 Valori di Illuminamento su: 2 - Tangenziale [UI,c1 (Tangenziale, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	51.59 lx	50.85 lx	52.10 lx	0.99	0.98	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

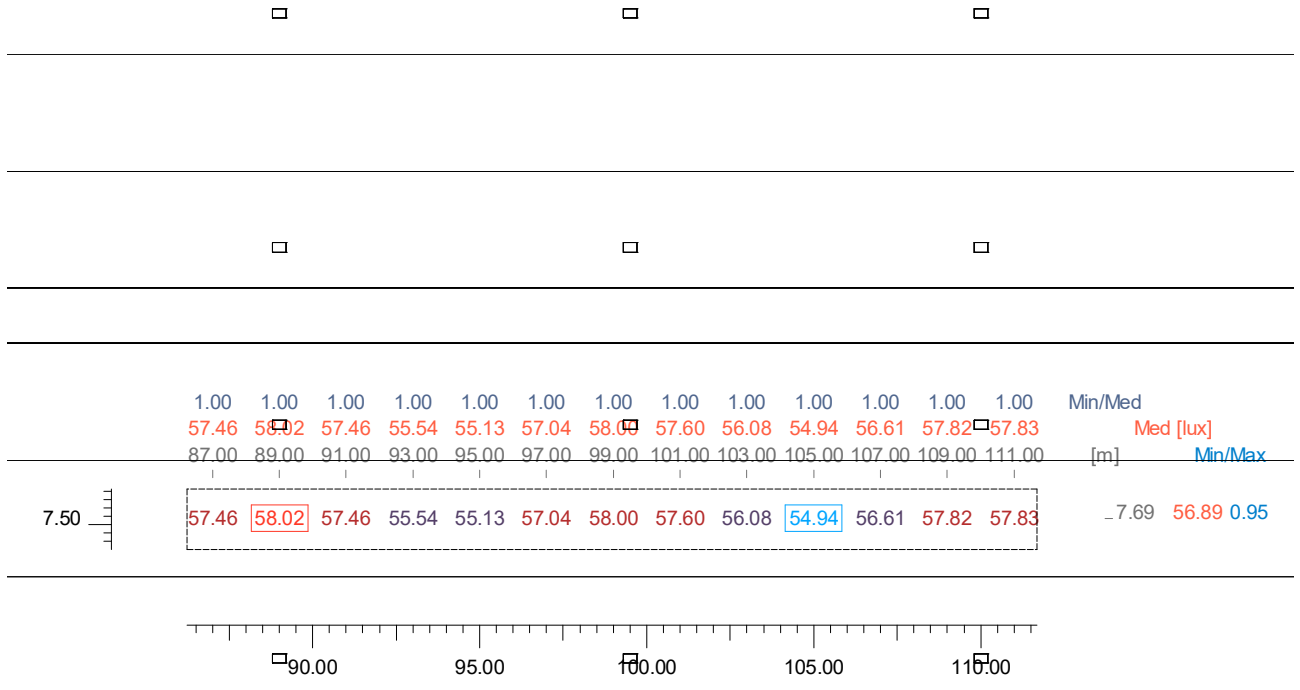


4.9 Valori di Illuminamento su: 2 - Tangenziale [UI,c2 (Tangenziale, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	56.89 lx	54.94 lx	58.02 lx	0.97	0.95	0.98

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

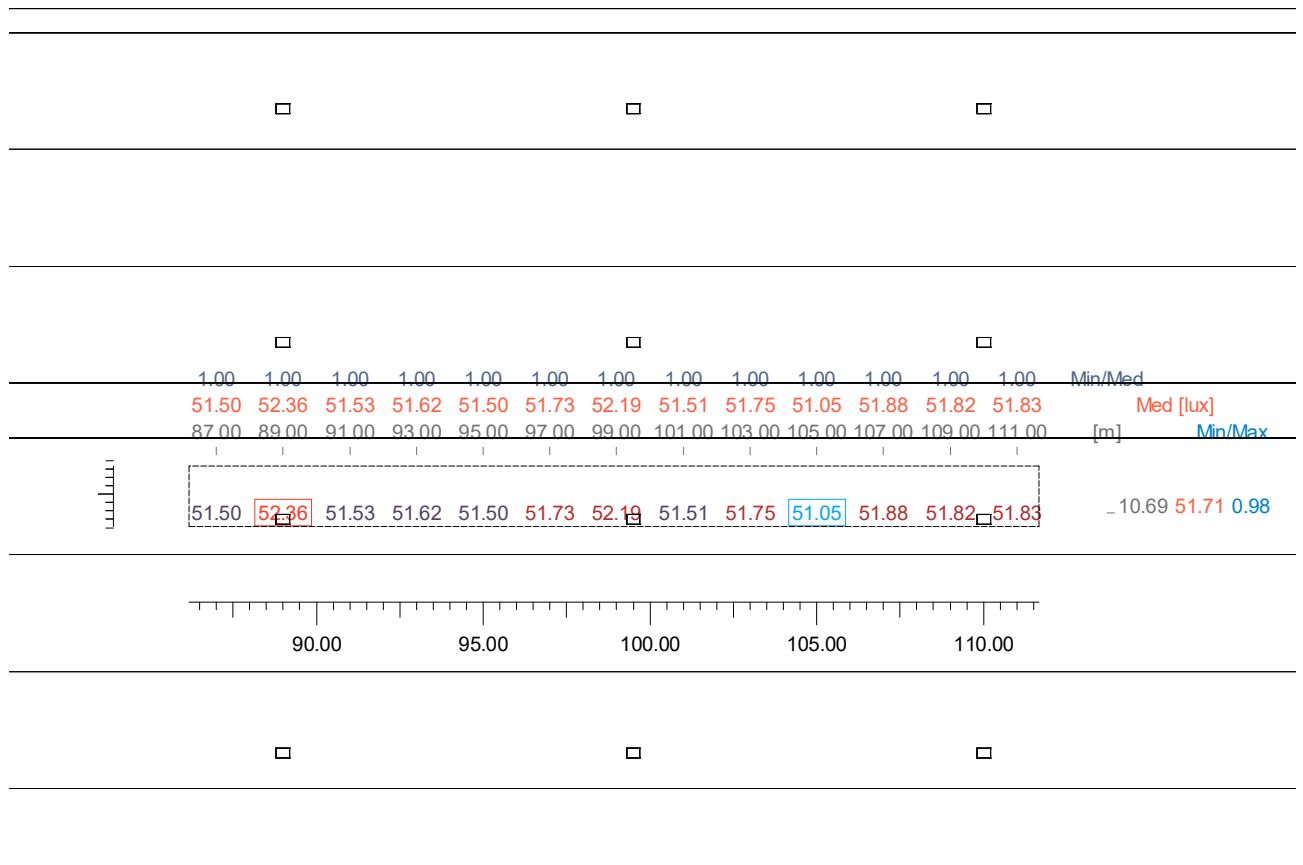


4.10 Valori di Illuminamento su: 2 - Tangenziale [UI,c3 (Tangenziale, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	51.71 lx	51.05 lx	52.36 lx	0.99	0.98	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

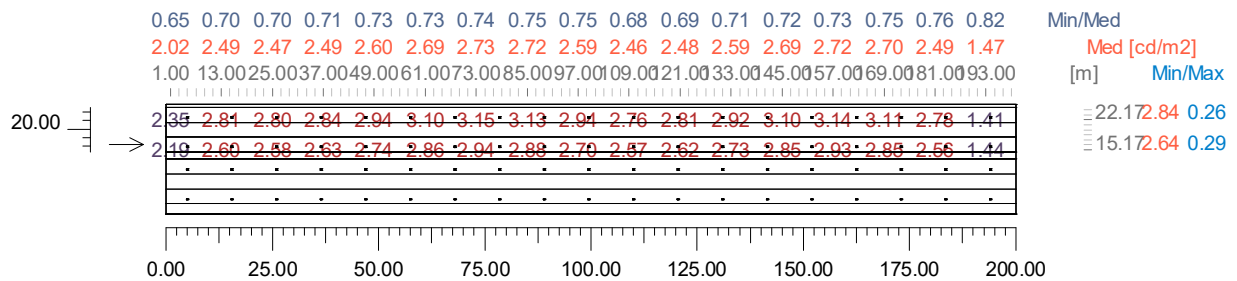


4.11 Valori delle Luminanze su: 4 - Autostrada A14 - Oss. 1 [x=-60.00 y=16.34] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.51 cd/m2	0.69 cd/m2	3.20 cd/m2	0.27	0.21	0.78

Osservatore
Tipo Calcolo

[x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)



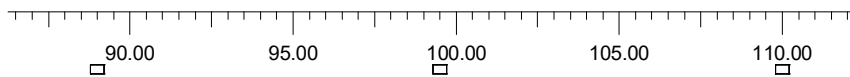
4.12 Valori delle Luminanze su: 4 - Autostrada A14 [Lp,c (Autostrada, Sezione 3)] - Oss. 1 [x=-60.00 y=16.34 z=1.50] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.59 cd/m ²	1.68 cd/m ²	3.20 cd/m ²	0.65	0.52	0.81

Osservatore
Tipo Calcolo

[x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)

	0.75	0.74	0.75	0.75	0.75	0.75	0.74	0.68	0.68	0.68	0.70	0.68	0.69	Min/Med
	2.55	2.49	2.61	2.72	2.74	2.59	2.50	2.52	2.66	2.69	2.60	2.46	2.49	Med [cd/m ²]
	87.00	89.00	91.00	93.00	95.00	97.00	99.00	101.00	103.00	105.00	107.00	109.00	111.00	[m]
														Min/Max
25.00	1.90	1.84	1.95	2.03	2.04	1.96	1.86	1.71	1.82	1.84	1.82	1.68	1.72	24.51
	2.45	2.40	2.53	2.71	2.76	2.52	2.42	2.17	2.40	2.48	2.33	2.13	2.20	23.34
22.50	2.88	2.86	2.96	3.13	3.18	2.94	2.86	2.79	2.99	3.05	2.91	2.76	2.79	22.17
	2.66	2.59	2.70	2.80	2.80	2.69	2.59	2.85	2.98	3.02	2.92	2.77	2.77	21.01
20.00	2.40	2.34	2.45	2.48	2.47	2.41	2.35	2.50	2.56	2.54	2.50	2.44	2.44	19.84
	2.42	2.35	2.47	2.49	2.49	2.43	2.37	2.42	2.46	2.48	2.44	2.38	2.39	18.67
17.50	2.66	2.57	2.71	2.79	2.79	2.71	2.58	2.62	2.74	2.74	2.72	2.54	2.57	17.51
	2.92	2.88	3.00	3.16	3.20	2.98	2.88	2.95	3.14	3.17	3.05	2.87	2.91	16.34
15.00	2.65	2.62	2.75	2.89	2.93	2.70	2.63	2.66	2.82	2.92	2.72	2.57	2.63	15.17

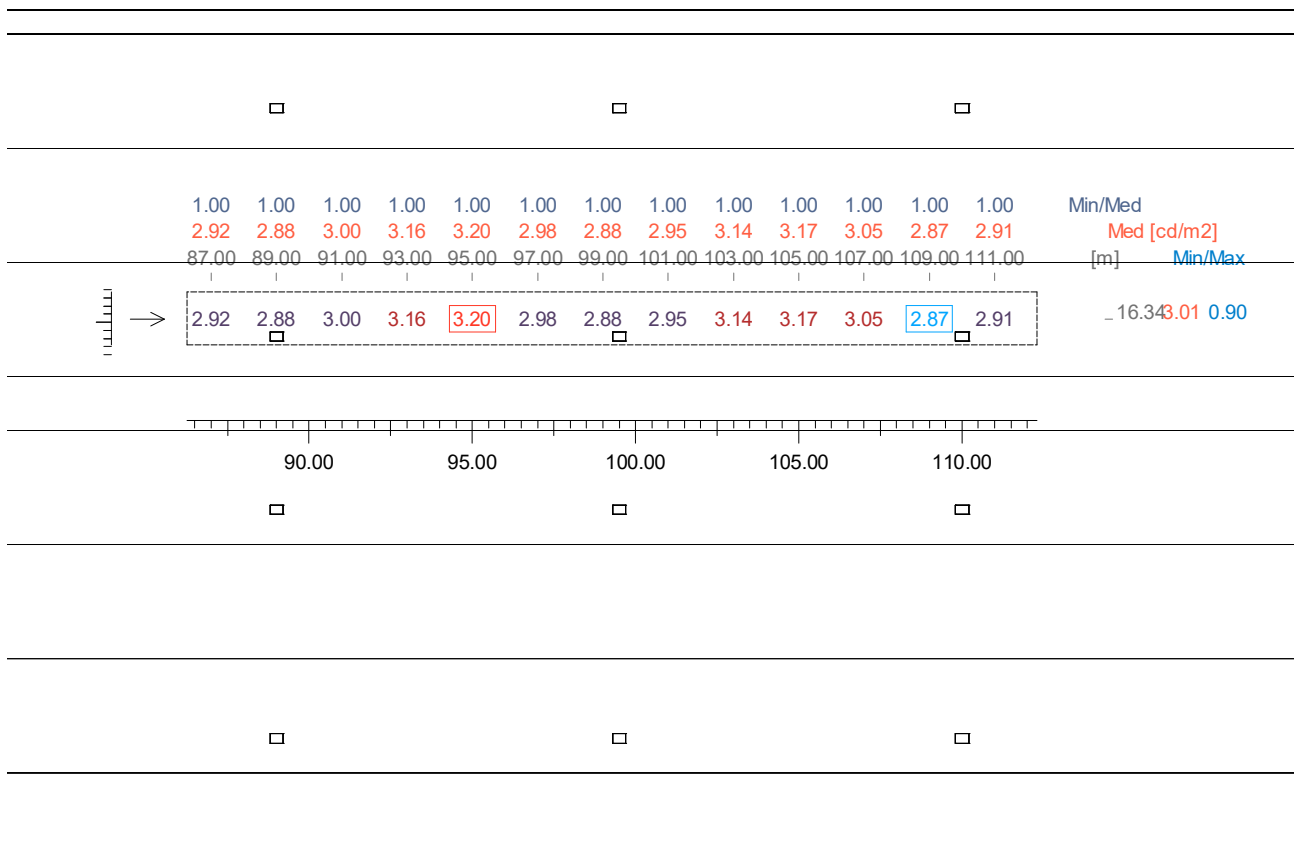


4.13 Valori delle Luminanze su: 4 - Autostrada A14 [UI,c1 (Autostrada, Sezione 3)] - Oss. 1 [x=-60.00 y=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.01 cd/m2	2.87 cd/m2	3.20 cd/m2	0.95	0.90	0.94

Osservatore
Tipo Calcolo

[x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)



4.14 Valori delle Luminanze su: 4 - Autostrada A14 [UI,c2 (Autostrada, Sezione 3)] - Oss. 1 [x=-60.00 y=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.45 cd/m ²	2.34 cd/m ²	2.56 cd/m ²	0.96	0.92	0.96

Osservatore
Tipo Calcolo

[x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)

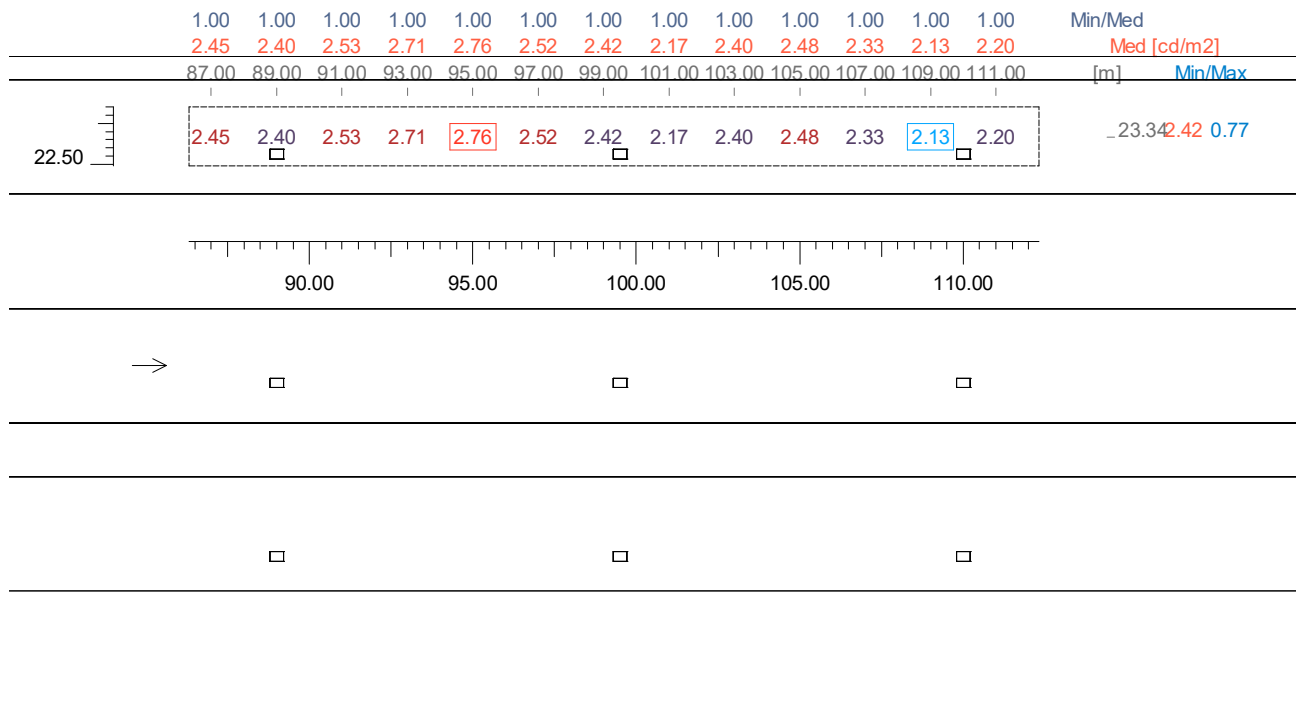


4.15 Valori delle Luminanze su: 4 - Autostrada A14 [UI,c3 (Autostrada, Sezione 3)] - Oss. 1 [x=-60.00 y=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.42 cd/m2	2.13 cd/m2	2.76 cd/m2	0.88	0.77	0.88

Osservatore
Tipo Calcolo

[x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)

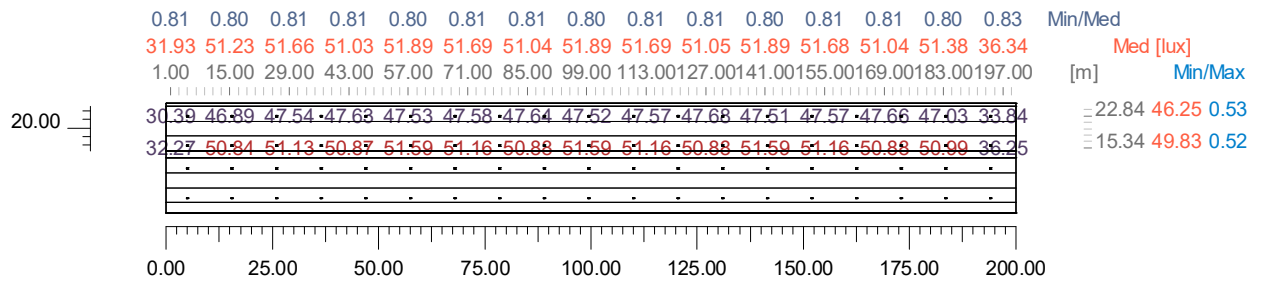


4.16 Valori di Illuminamento su: 4 - Autostrada A14

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	50.20 lx	21.26 lx	57.85 lx	0.42	0.37	0.87

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



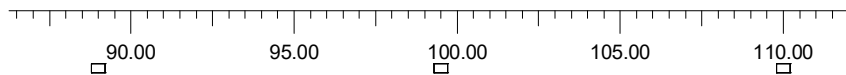
4.17 Valori di Illuminamento su: 4 - Autostrada A14 [Lp,c (Autostrada, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	51.46 lx	40.53 lx	57.85 lx	0.79	0.70	0.89

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	0.81	0.80	0.81	0.81	0.81	0.81	0.80	0.81	0.81	0.81	0.81	0.80	0.80	Min/Med		
	51.69	51.97	51.69	51.04	50.62	51.80	51.89	51.54	51.39	50.31	51.69	51.64	51.65	Med [lux]		
	87.00	89.00	91.00	93.00	95.00	97.00	99.00	101.00	103.00	105.00	107.00	109.00	111.00	Min/Max		
														[m]		
25.00	41.98	41.83	41.96	41.30	40.85	42.19	41.71	41.55	41.69	40.53	42.04	41.44	41.46	24.34	41.58	0.96
22.50	46.81	47.64	46.82	47.64	47.65	47.25	47.52	46.69	47.70	47.24	47.57	47.08	47.09	22.84	47.28	0.98
20.00	52.69	52.58	52.69	52.21	51.76	52.93	52.47	52.28	52.55	51.46	52.83	52.21	52.21	21.34	52.37	0.97
17.50	55.58	56.50	55.58	54.09	53.74	55.31	56.42	55.85	54.51	53.54	54.92	56.15	56.16	19.84	55.26	0.95
15.00	57.73	57.55	57.73	55.85	55.39	57.42	57.75	57.83	56.40	55.13	56.96	57.85	57.85	18.34	57.04	0.95
	56.17	55.99	56.19	55.31	54.29	56.43	55.81	55.71	55.88	53.82	56.32	55.56	55.56	16.84	55.62	0.95
	50.86	51.71	50.87	50.86	50.65	51.07	51.59	50.87	51.01	50.49	51.18	51.22	51.21	15.34	51.05	0.98



□

□

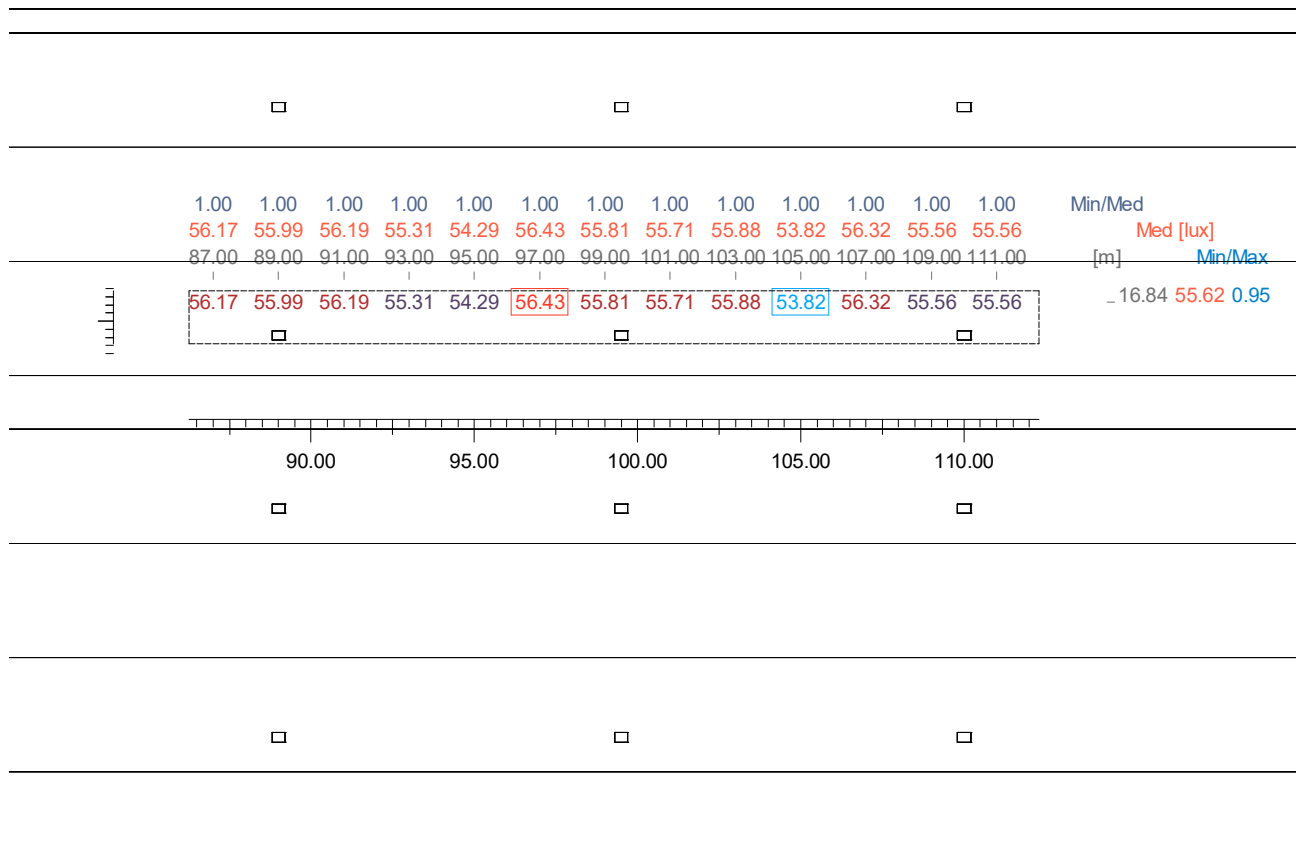
□

4.18 Valori di Illuminamento su: 4 - Autostrada A14 [U_{i,c1} (Autostrada, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	55.62 lx	53.82 lx	56.43 lx	0.97	0.95	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



4.19 Valori di Illuminamento su: 4 - Autostrada A14 [U,c2 (Autostrada, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	55.26 lx	53.54 lx	56.50 lx	0.97	0.95	0.98

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

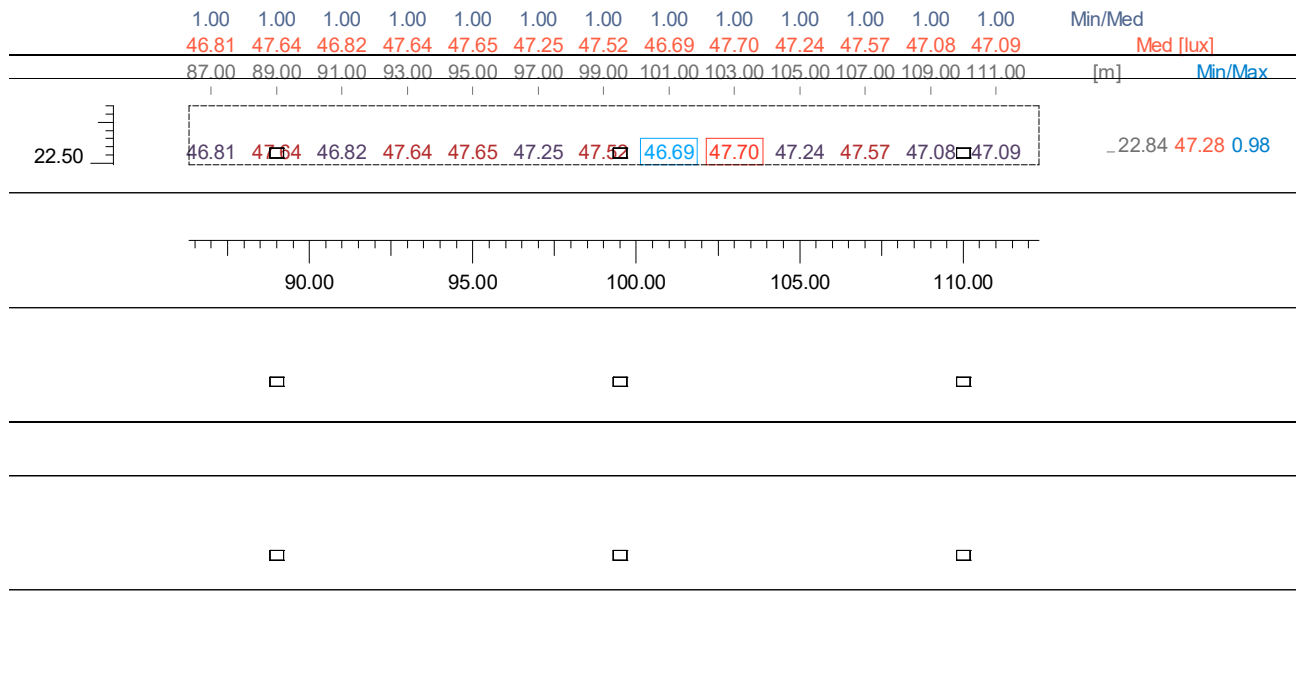


4.20 Valori di Illuminamento su: 4 - Autostrada A14 [UI,c3 (Autostrada, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	47.28 lx	46.69 lx	47.70 lx	0.99	0.98	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

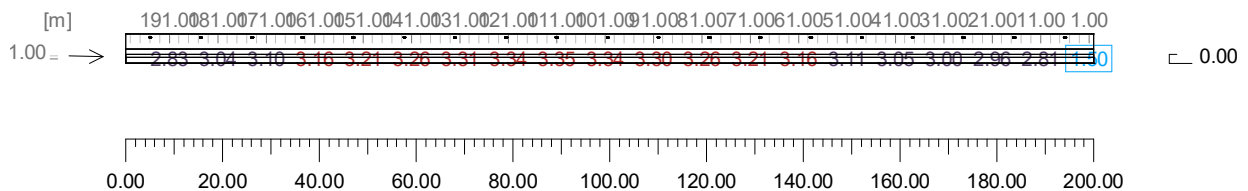


4.21 Valori delle Luminanze su: Parete Virtuale Destra - Oss. 1 (Lambert) [x=-60.00 y=4.19] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.14 cd/m ²	1.50 cd/m ²	3.62 cd/m ²	0.48	0.41	0.87

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=4.19 z=1.50] m => [x=30.00 y=4.19 z=0.00] m
Dir.+Indir. (Accuratezza:2)

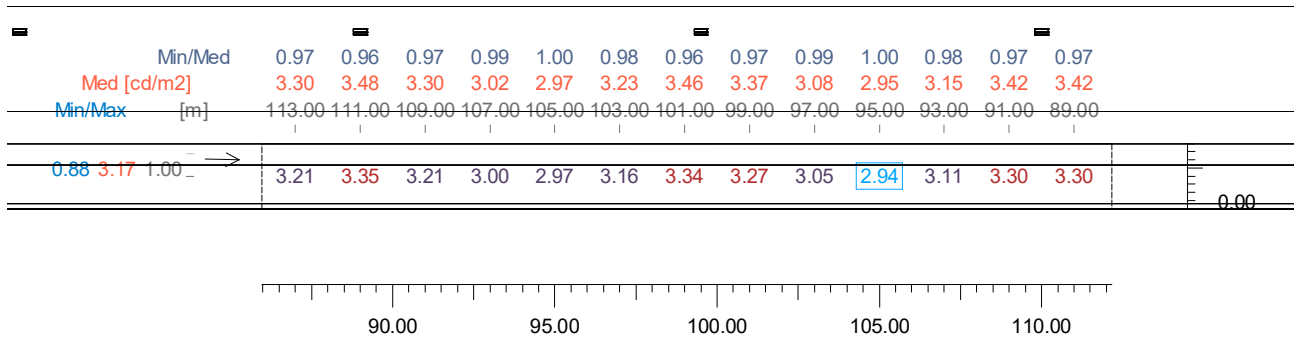


4.22 Valori delle Luminanze su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 3)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.24 cd/m2	2.94 cd/m2	3.61 cd/m2	0.91	0.81	0.90

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=4.19 z=1.50] m => [x=30.00 y=4.19 z=0.00] m
Dir.+Indir. (Accuratezza:2)

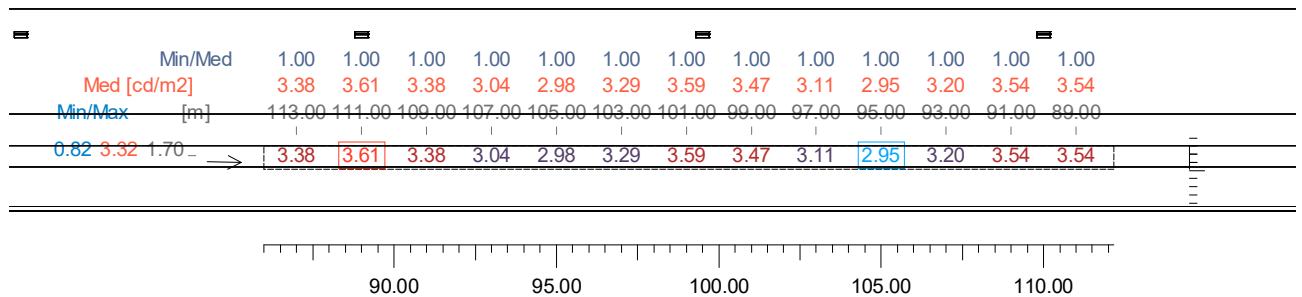


4.23 Valori delle Luminanze su: Parete Virtuale Destra [UI,pd (Tangenziale, Sezione 3)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.32 cd/m2	2.95 cd/m2	3.61 cd/m2	0.89	0.82	0.92

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=4.19 z=1.50] m => [x=30.00 y=4.19 z=0.00] m
Dir.+Indir. (Accuratezza:2)

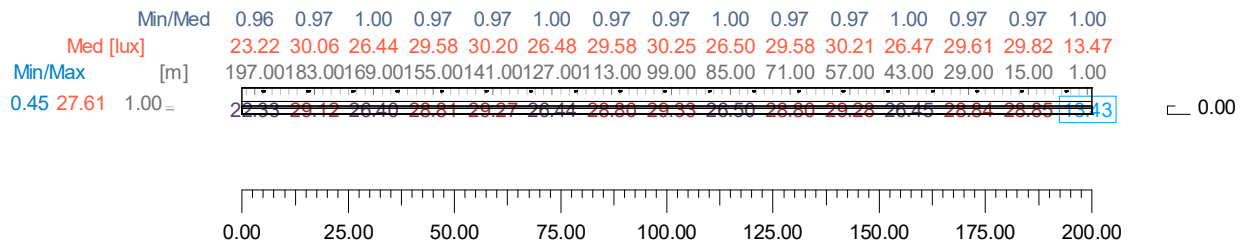


4.24 Valori di Illuminamento su: Parete Virtuale Destra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	28.20 lx	13.43 lx	32.47 lx	0.48	0.41	0.87

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

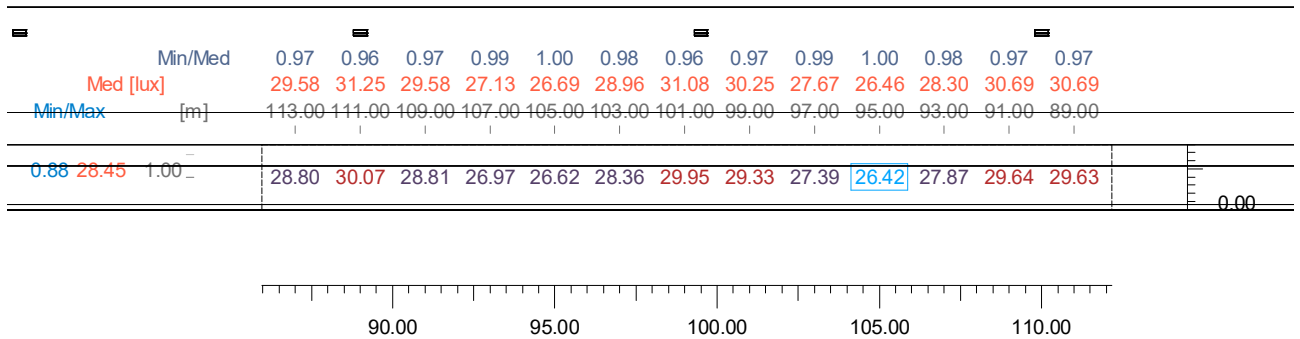


4.25 Valori di Illuminamento su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	29.10 lx	26.42 lx	32.43 lx	0.91	0.81	0.90

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

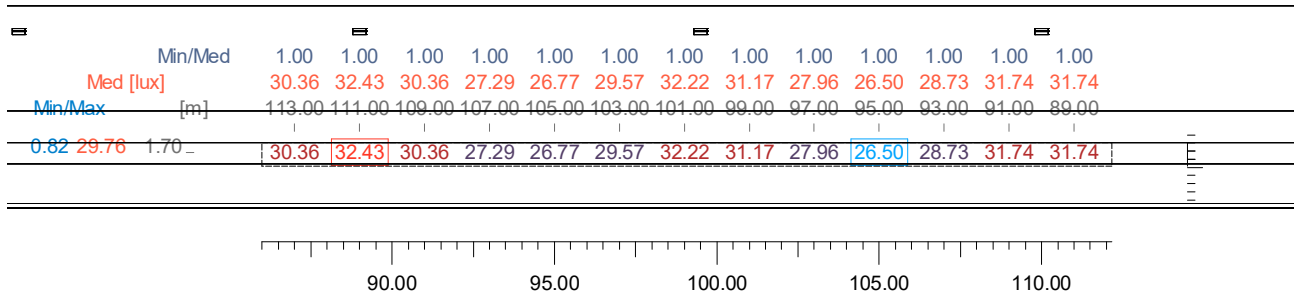


4.26 Valori di Illuminamento su: Parete Virtuale Destra [U, pd (Tangenziale, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	29.76 lx	26.50 lx	32.43 lx	0.89	0.82	0.92

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

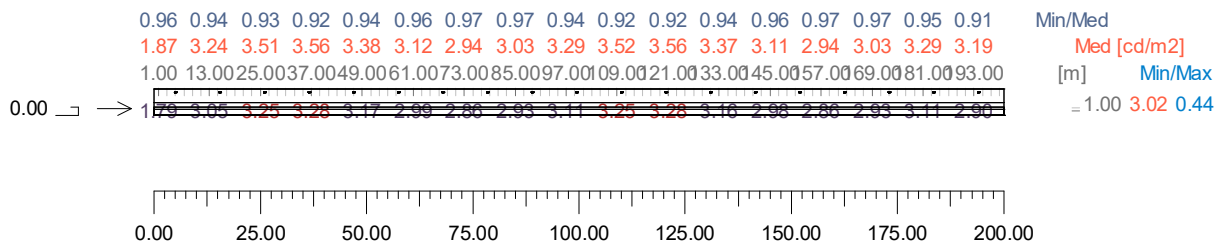


4.27 Valori delle Luminanze su: Parete Virtuale Sinistra - Oss. 2 (Lambert) [x=-60.00 y=16.34] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.20 cd/m2	1.46 cd/m2	3.88 cd/m2	0.46	0.38	0.82

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)

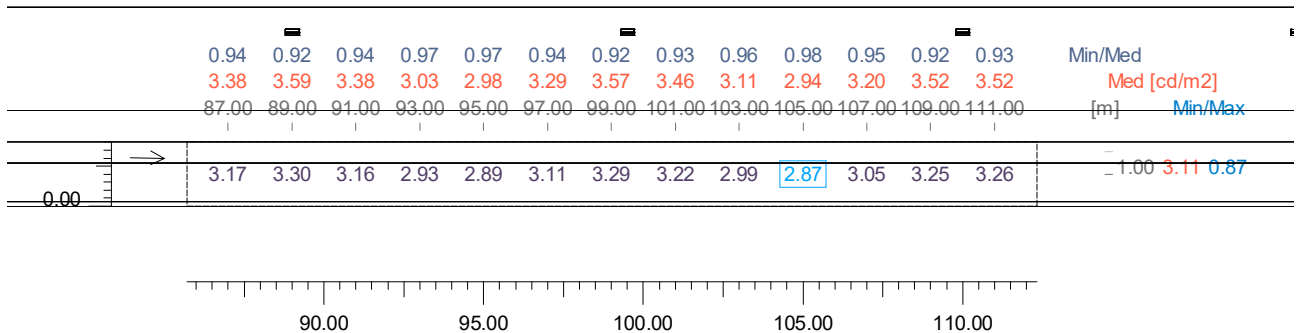


4.28 Valori delle Luminanze su: Parete Virtuale Sinistra [Lp,ps (Autostrada, Sezione 3)] - Oss. 2 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.30 cd/m2	2.87 cd/m2	3.87 cd/m2	0.87	0.74	0.85

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)

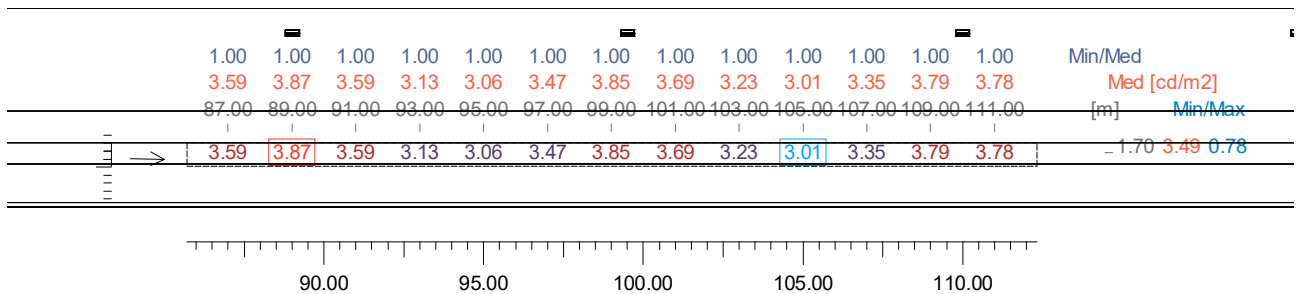


4.29 Valori delle Luminanze su: Parete Virtuale Sinistra [UI,ps (Autostrada, Sezione 3)] - Oss. 2 (Lambe

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.49 cd/m2	3.01 cd/m2	3.87 cd/m2	0.86	0.78	0.90

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=16.34 z=1.50] m => [x=30.00 y=16.34 z=0.00] m
Dir.+Indir. (Accuratezza:2)

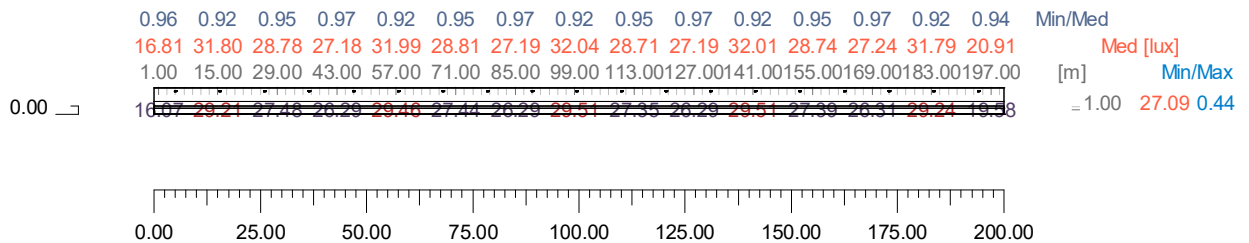


4.30 Valori di Illuminamento su: Parete Virtuale Sinistra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	28.68 lx	13.14 lx	34.83 lx	0.46	0.38	0.82

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

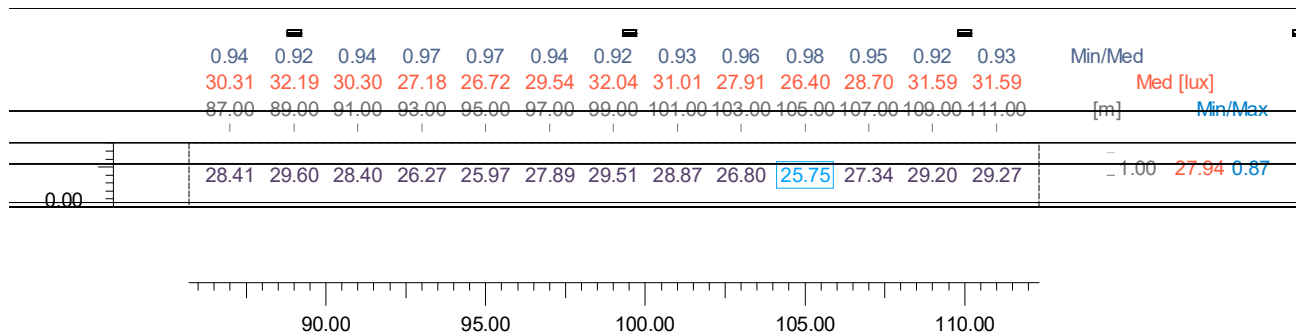


4.31 Valori di Illuminamento su: Parete Virtuale Sinistra [Lp,ps (Autostrada, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	29.65 lx	25.75 lx	34.77 lx	0.87	0.74	0.85

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

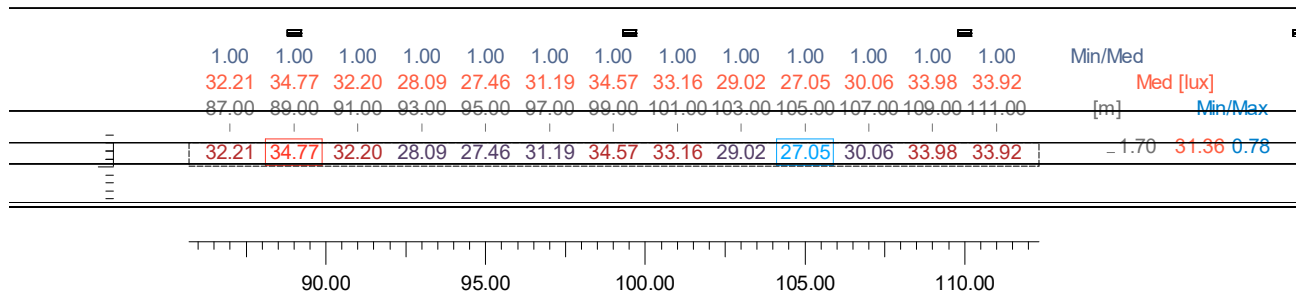


4.32 Valori di Illuminamento su: Parete Virtuale Sinistra [U,ps (Autostrada, Sezione 3)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	31.36 lx	27.05 lx	34.77 lx	0.86	0.78	0.90

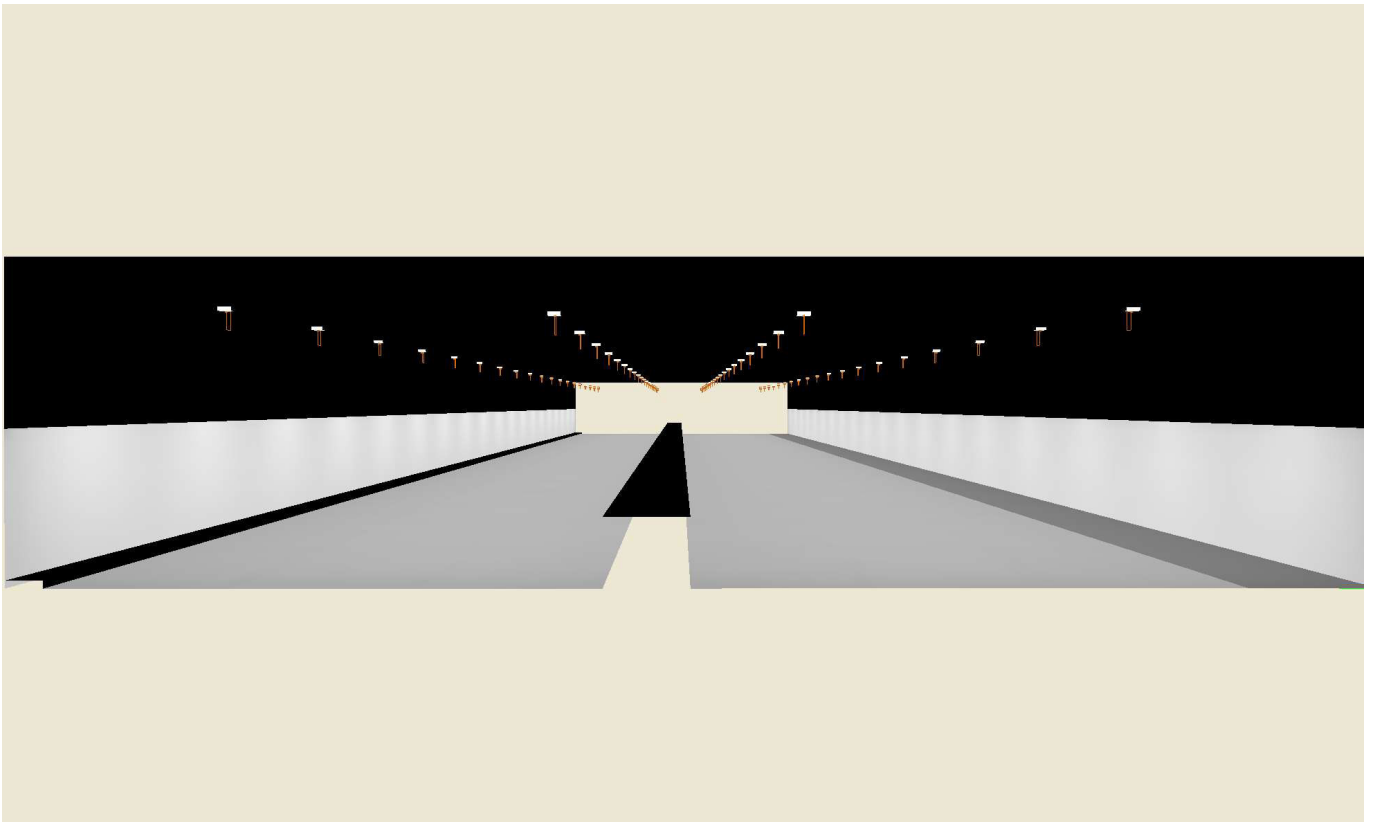
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

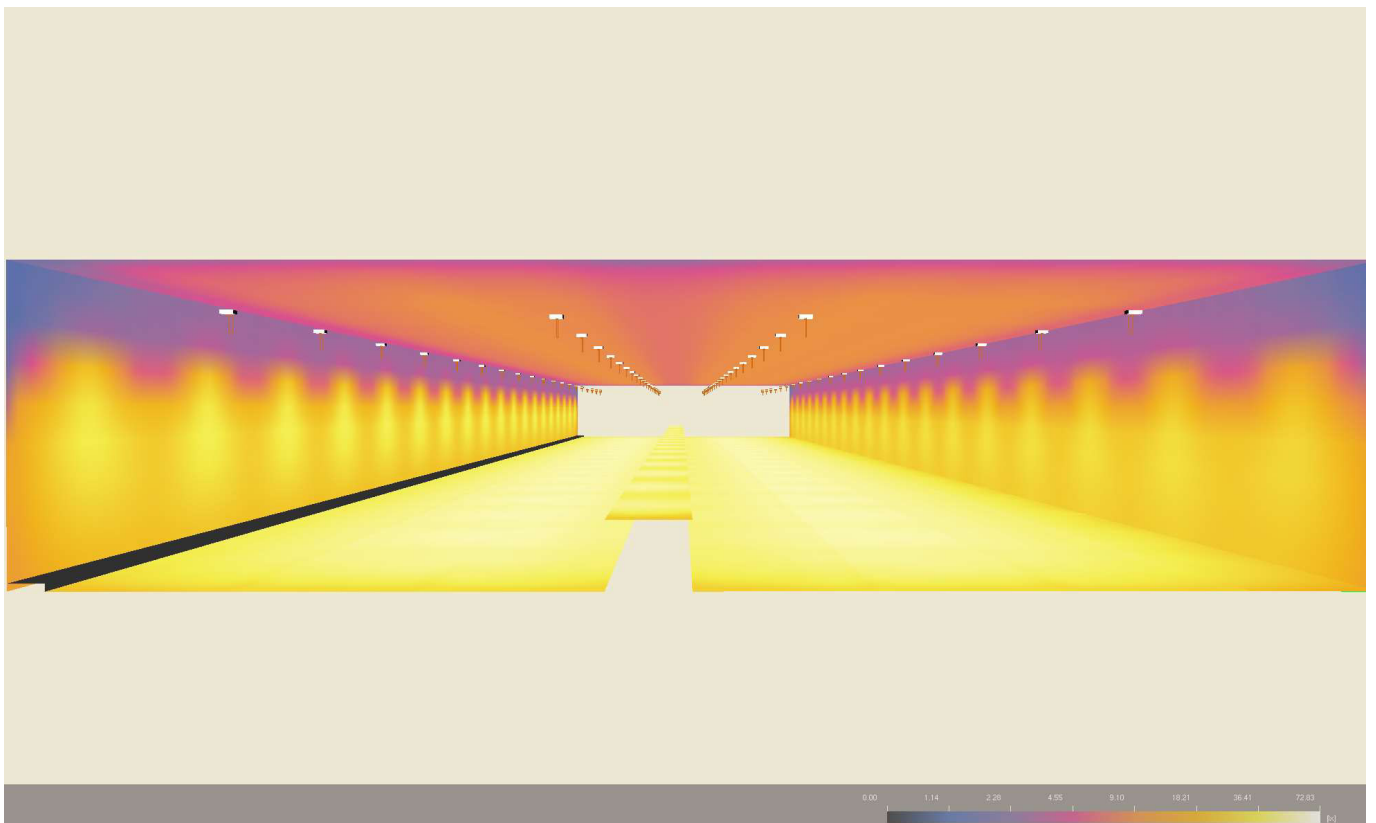


5. Immagini

5.1 Immagini



5.2 Immagini



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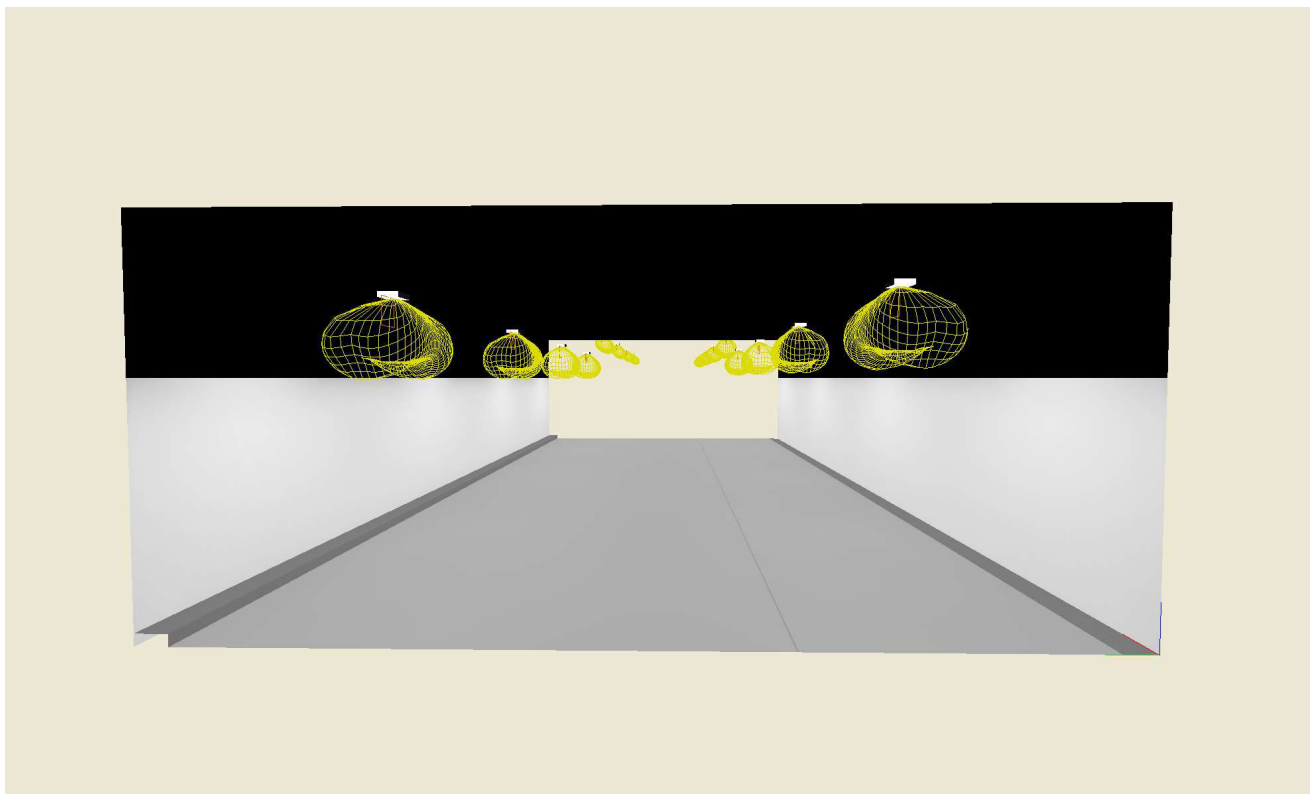
Galleria San Donnino

Note Installazione: Permanente - Autostrada - Sezione 4
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 17/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria 4.85m
Fattore di manutenzione 80%
H. corpi illuminanti come da tabella sotto

Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

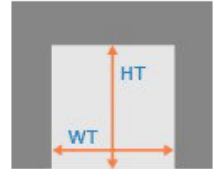
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

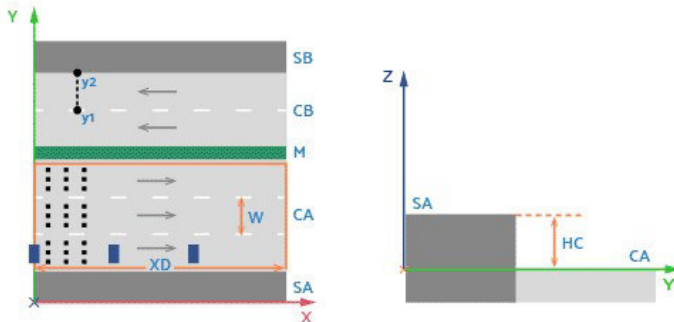
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice	Cubo (A)
Larghezza (WT)	11.28 m
Altezza (HT)	4.85 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%

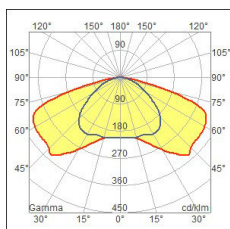


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Marciapiede	Pista Ciclo/Pedonale	Marciapiede	--->	0.39	0.00	0.39	3	3	0.00		0.3000
2. Autostrada	Carrabile			10.50	0.39	10.89	7		0.00	C2	0.0560
		2.1 Corsia 1	--->	3.50	0.39	3.89		3			
		2.2 Corsia 2	--->	3.50	3.89	7.39		3			
		2.3 Corsia 3	--->	3.50	7.39	10.89		3			
3. Marciapiede B	Pista Ciclo/Pedonale	Marciapiede	--->	0.39	10.89	11.28	3	3	0.15		0.3000

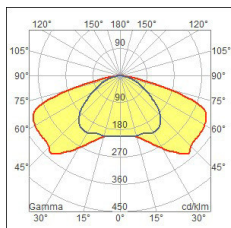


1.2 Informazioni Apparecchi/Rilievi

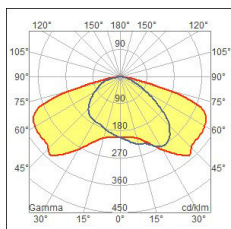
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8S 16D440_W244S (Radiant 8S 16D440_W244S)	Radiant 8S 16D440_W244S (Radiant 8S 16D440_W244S)	3307.00	0.80	100 %	255,255,255	8	Sorg-A	1



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coef. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	8	Sorg-B	1



C	Detas SpA Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	4452.00	0.80	100 %	255,255,255	8	Sorg-C	1
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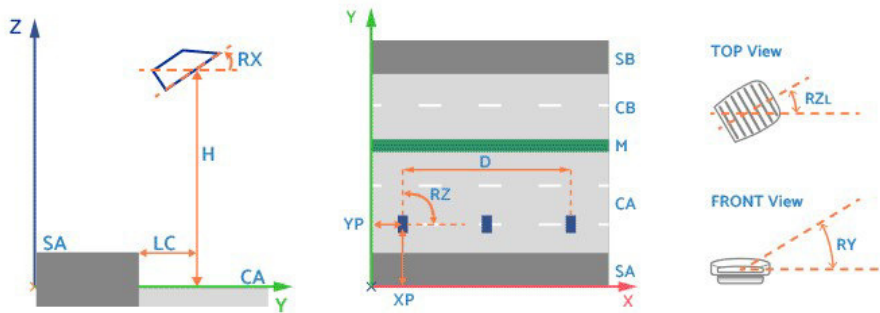


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		16D440 22W	16D440 22W	22.00	0.0000	3307	6000	8
Sorg-B		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	8
Sorg-C		16D600 30W	16D600 30W	30.00	0.0000	4452	6000	8

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altez.App. [m] (H)	Núm. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila B	B		-40.00	2.15	5.45	4	10.50	0.00	31.50	0	0	-0
Fila B	C		-40.00	9.15	5.35	4	10.50	0.00	31.50	0	180	-0
Fila B	A		2.00	2.15	4.25	4	7.00	0.00	21.00	0	0	-0
Fila B	A		2.00	9.15	4.10	4	7.00	0.00	21.00	0	180	-0
Fila B	B		30.00	2.15	5.25	4	10.50	0.00	31.50	0	180	-0
Fila B	C		30.00	9.15	5.40	4	10.50	0.00	31.50	0	180	-0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Marciapiede	Risultati	EAV = 45.2 lux	EMIN = 38.95 lux		
2 - Autostrada	Risultati	LAV = 2.85 cd/m ²	Uo(L) = 0.66	UL = 0.74	fTI = 8 %
	Oss. 1) [x=-60.00 y=2.14] m	LAV = 2.85 cd/m ²	Uo(L) = 0.66	UL = 0.77	
	Oss. 2) [x=-60.00 y=5.64] m	LAV = 2.85 cd/m ²	Uo(L) = 0.66 *	UL = 0.76	
	Oss. 3) [x=-60.00 y=9.14] m	LAV = 2.85 cd/m ² *	Uo(L) = 0.66	UL = 0.74 *	
	Oss.Ti 1) [x=-50.86 y=2.14] n				fTI = 7.52 % *
	Oss.Ti 2) [x=-50.86 y=5.64] n				fTI = 6.75 %
	Oss.Ti 3) [x=-50.86 y=9.14] n				fTI = 6.76 %
	Lv = 0.28				
3 - Marciapiede B	Risultati	EAV = 46.3 lux	EMIN = 40.37 lux		

Riepilogo Uniformità di Luminanz

Sezione Permanente	[10.00..25.00] m	(Luminanza Costante)			
Parete Destra	LAV%,(pd/c,o2) = 147.9 %	LAV,pd=4.41 cd/m ²	Uo,pd=0.87	Ul,pd=0.79 (y=1.70 m)	
Parete Sinistra	LAV%,(ps/c,o2) = 152.5 %	LAV,ps=4.54 cd/m ²	Uo,ps=0.88	Ul,ps=0.76 (y=1.70 m)	
1 - Marciapiede	LAV%,(md/c,o2) = 149.6 %	LAV,md,o1=4.46 cd/m ²	Uo,md,o1=0.94	Ul,o1=0.92 (y=0.20 m)	
2 - Autostrada	--->	LAV,c,o3=2.97 cd/m ²	Uo,c,o2=0.70	Ul,o3=0.74 (y=9.14 m)	
--->	Oss. 1) [x=-60.00 y=2.14] m	LAV,c,o1=2.98 cd/m ²	Uo,c,o1=0.72	Ul,o1=0.83 (y=2.14 m)	
--->	Oss. 2) [x=-60.00 y=5.64] m	LAV,c,o2=2.98 cd/m ²	Uo,c,o2=0.70 *	Ul,o2=0.85 (y=5.64 m)	
--->	Oss. 3) [x=-60.00 y=9.14] m	LAV,c,o3=2.97 cd/m ² *	Uo,c,o3=0.72	Ul,o3=0.74 (y=9.14 m) '	
3 - Marciapiede B	LAV%,(ms/c,o2) = 152.1 %	LAV,ms,o1=4.53 cd/m ²	Uo,ms,o1=0.95	Ul,o1=0.95 (y=11.09 m)	

pd: Parete Destra ps: Parete Sinistra c: Carreggiata cm: Corsie di Marcia
md: Marciapiede Destro ms: Marciapiede Sinistro o: Osservatore

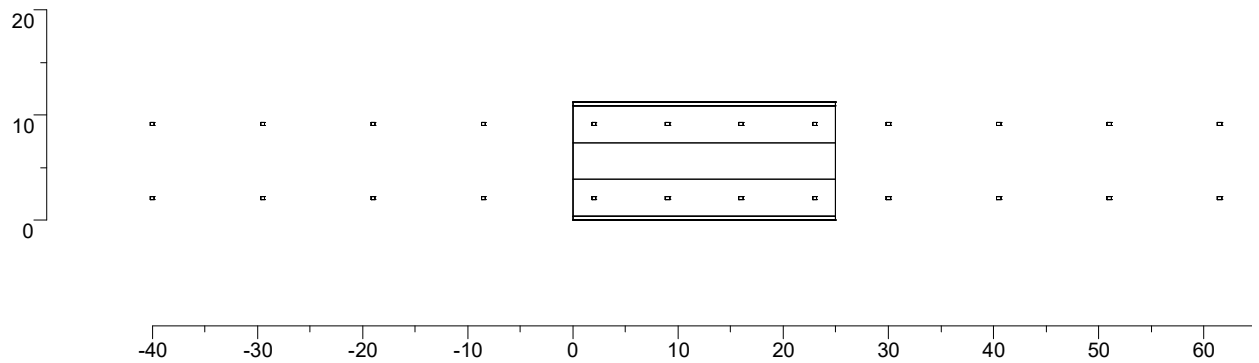
Inquinamento Luminoso

Rapporto Medio - Rn -

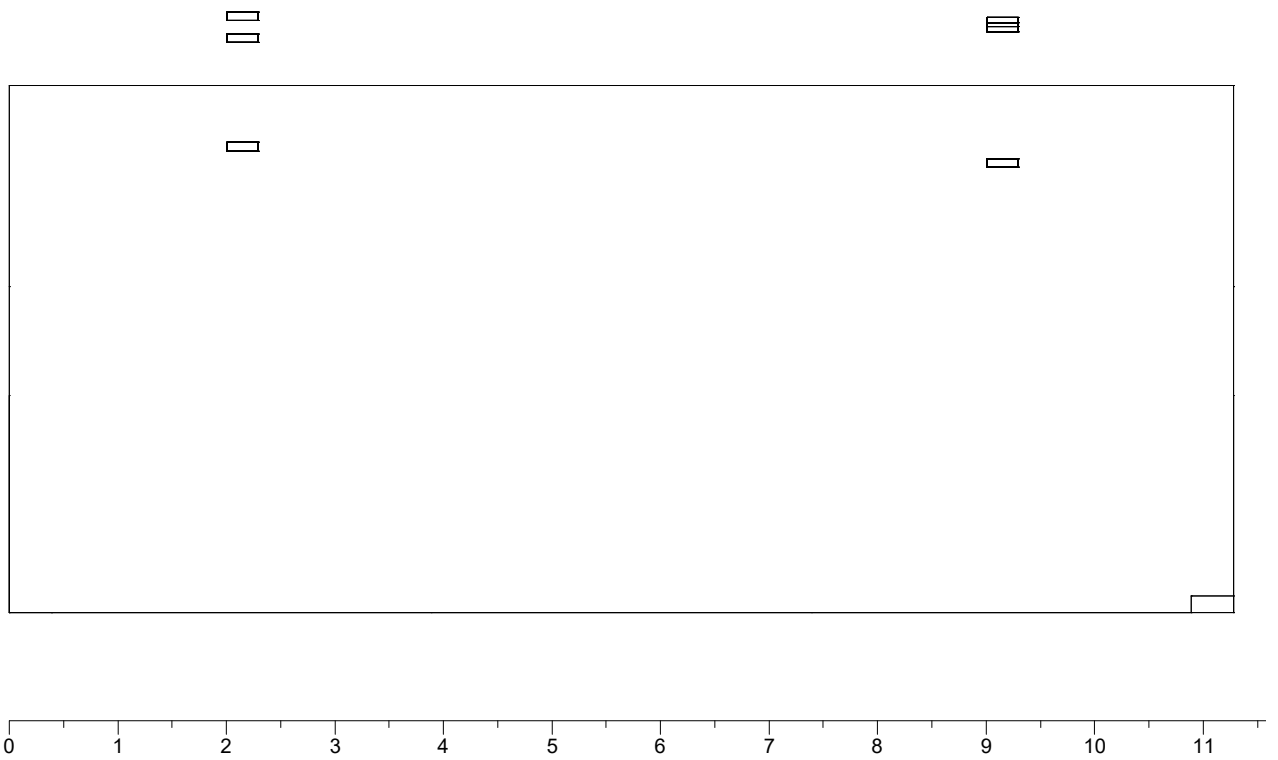
0.00 %

2. Viste Ambiente

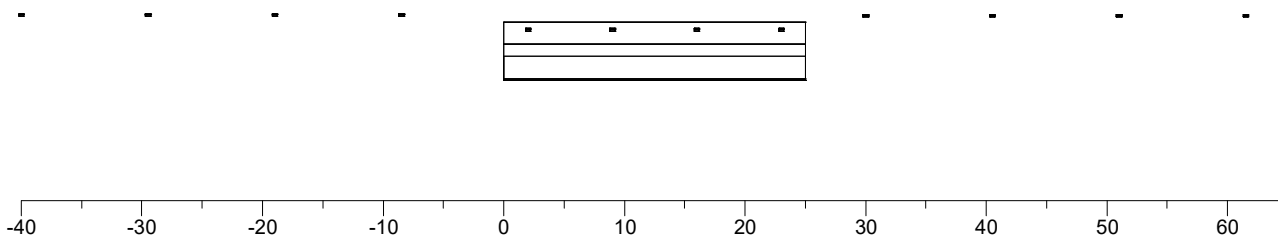
2.1 Vista 2D in Pianta



2.2 Vista Laterale

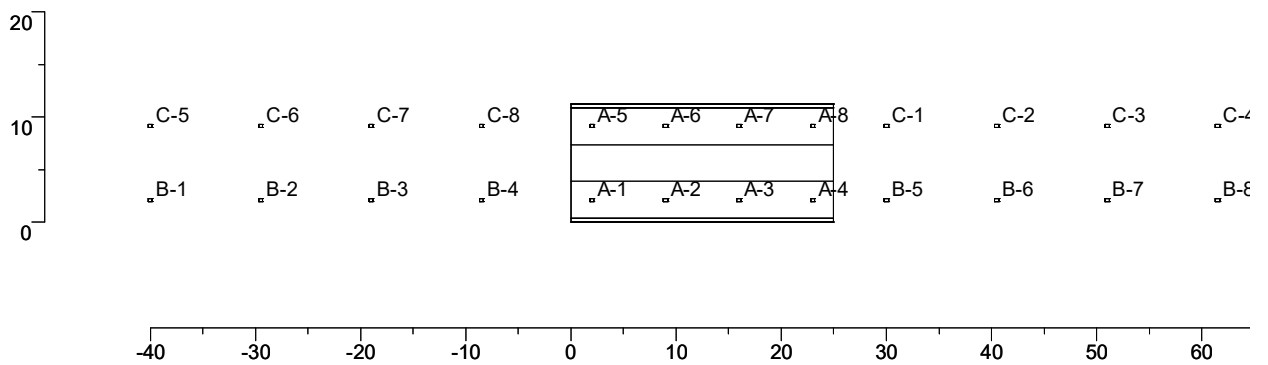


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	2.00	2.15	4.25	0.0	-0.0	0.0	Radiant 8S 16D440_W244S	16D440 22W
A-2	100 %	9.00	2.15	4.25	0.0	-0.0	0.0	Radiant 8S 16D440_W244S	16D440 22W
A-3	100 %	16.00	2.15	4.25	0.0	-0.0	0.0	Radiant 8S 16D440_W244S	16D440 22W
A-4	100 %	23.00	2.15	4.25	0.0	-0.0	0.0	Radiant 8S 16D440_W244S	16D440 22W
A-5	100 %	2.00	9.15	4.10	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
A-6	100 %	9.00	9.15	4.10	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
A-7	100 %	16.00	9.15	4.10	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
A-8	100 %	23.00	9.15	4.10	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
B-1	100 %	-40.00	2.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-2	100 %	-29.50	2.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-3	100 %	-19.00	2.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-4	100 %	-8.50	2.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-5	100 %	30.00	2.15	5.25	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-6	100 %	40.50	2.15	5.25	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-7	100 %	51.00	2.15	5.25	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-8	100 %	61.50	2.15	5.25	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
C-1	100 %	30.00	9.15	5.40	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-2	100 %	40.50	9.15	5.40	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-3	100 %	51.00	9.15	5.40	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-4	100 %	61.50	9.15	5.40	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-5	100 %	-40.00	9.15	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-6	100 %	-29.50	9.15	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-7	100 %	-19.00	9.15	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-8	100 %	-8.50	9.15	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8S 16D440_W244S	100 %	2.00	2.15	4.25	0.0	-0.0	0.0	2.00	2.15	0.00	0.0
A-2		Radiant 8S 16D440_W244S	100 %	9.00	2.15	4.25	0.0	-0.0	0.0	9.00	2.15	0.00	0.0
A-3		Radiant 8S 16D440_W244S	100 %	16.00	2.15	4.25	0.0	-0.0	0.0	16.00	2.15	0.00	0.0
A-4		Radiant 8S 16D440_W244S	100 %	23.00	2.15	4.25	0.0	-0.0	0.0	23.00	2.15	0.00	0.0
A-5		Radiant 8S 16D440_W244S	100 %	2.00	9.15	4.10	0.0	-0.0	180.0	2.00	9.15	0.00	0.0
A-6		Radiant 8S 16D440_W244S	100 %	9.00	9.15	4.10	0.0	-0.0	180.0	9.00	9.15	0.00	0.0
A-7		Radiant 8S 16D440_W244S	100 %	16.00	9.15	4.10	0.0	-0.0	180.0	16.00	9.15	0.00	0.0
A-8		Radiant 8S 16D440_W244S	100 %	23.00	9.15	4.10	0.0	-0.0	180.0	23.00	9.15	0.00	0.0
B-1		Radiant 8S 16D700_W244S	100 %	-40.00	2.15	5.45	0.0	-0.0	0.0	-40.00	2.15	0.00	0.0
B-2		Radiant 8S 16D700_W244S	100 %	-29.50	2.15	5.45	0.0	-0.0	0.0	-29.50	2.15	0.00	0.0
B-3		Radiant 8S 16D700_W244S	100 %	-19.00	2.15	5.45	0.0	-0.0	0.0	-19.00	2.15	0.00	0.0
B-4		Radiant 8S 16D700_W244S	100 %	-8.50	2.15	5.45	0.0	-0.0	0.0	-8.50	2.15	0.00	0.0
B-5		Radiant 8S 16D700_W244S	100 %	30.00	2.15	5.25	0.0	-0.0	180.0	30.00	2.15	0.00	0.0
B-6		Radiant 8S 16D700_W244S	100 %	40.50	2.15	5.25	0.0	-0.0	180.0	40.50	2.15	0.00	0.0
B-7		Radiant 8S 16D700_W244S	100 %	51.00	2.15	5.25	0.0	-0.0	180.0	51.00	2.15	0.00	0.0
B-8		Radiant 8S 16D700_W244S	100 %	61.50	2.15	5.25	0.0	-0.0	180.0	61.50	2.15	0.00	0.0
C-1		Radiant 8S 16D600_W279A	100 %	30.00	9.15	5.40	0.0	-0.0	180.0	30.00	9.15	-0.00	0.0
C-2		Radiant 8S 16D600_W279A	100 %	40.50	9.15	5.40	0.0	-0.0	180.0	40.50	9.15	-0.00	0.0
C-3		Radiant 8S 16D600_W279A	100 %	51.00	9.15	5.40	0.0	-0.0	180.0	51.00	9.15	-0.00	0.0
C-4		Radiant 8S 16D600_W279A	100 %	61.50	9.15	5.40	0.0	-0.0	180.0	61.50	9.15	-0.00	0.0
C-5		Radiant 8S 16D600_W279A	100 %	-40.00	9.15	5.35	0.0	-0.0	180.0	-40.00	9.15	0.00	0.0
C-6		Radiant 8S 16D600_W279A	100 %	-29.50	9.15	5.35	0.0	-0.0	180.0	-29.50	9.15	0.00	0.0
C-7		Radiant 8S 16D600_W279A	100 %	-19.00	9.15	5.35	0.0	-0.0	180.0	-19.00	9.15	0.00	0.0
C-8		Radiant 8S 16D600_W279A	100 %	-8.50	9.15	5.35	0.0	-0.0	180.0	-8.50	9.15	0.00	0.0

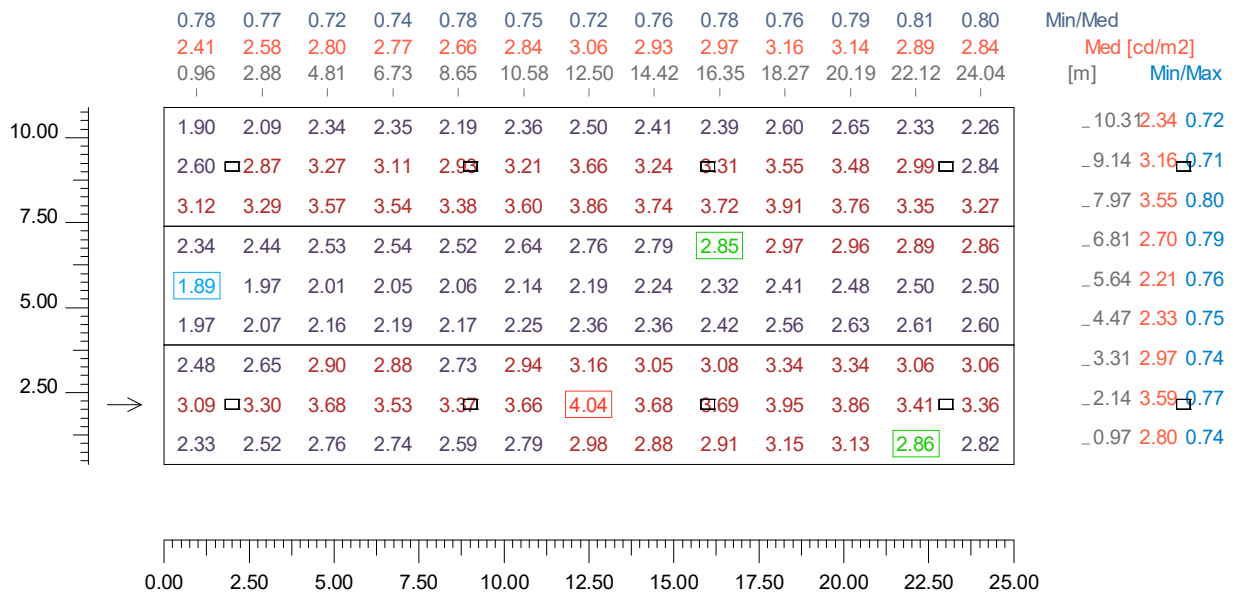
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 2 - Autostrada - Oss. 1 [x=-60.00 y=2.14] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.85 cd/m2	1.89 cd/m2	4.04 cd/m2	0.66	0.47	0.71

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

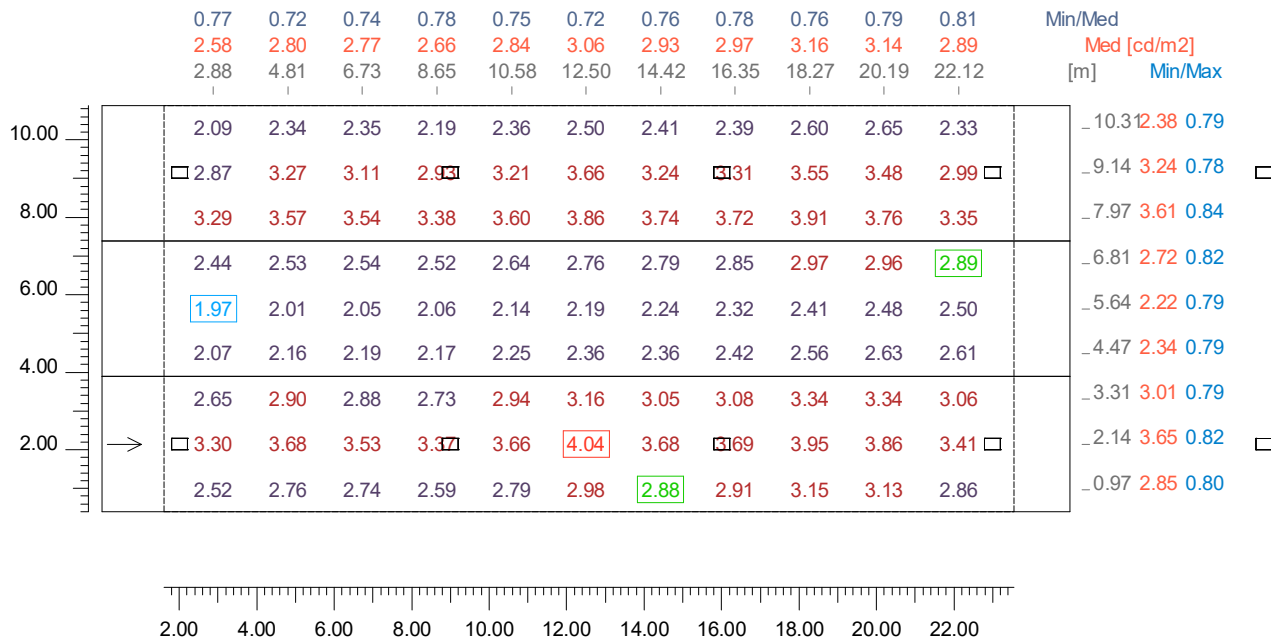


4.2 Valori delle Luminanze su: 2 - Autostrada [Lp,c (Autostrada, Sezione 4)] - Oss. 1 [x=-60.00 y=2.14] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.89 cd/m ²	1.97 cd/m ²	4.04 cd/m ²	0.68	0.49	0.72

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

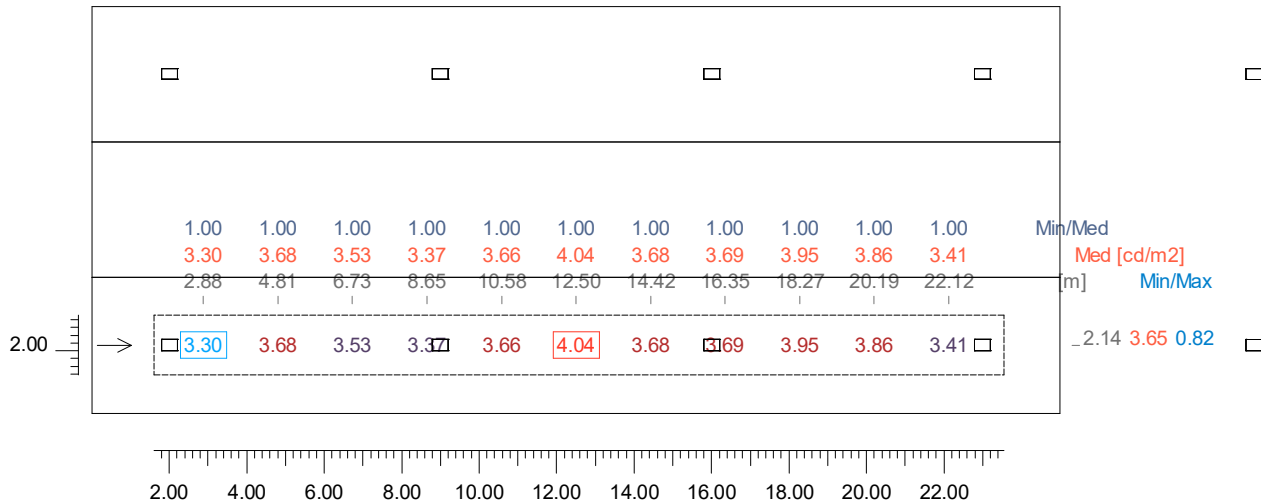


4.3 Valori delle Luminanze su: 2 - Autostrada [UI,c1 (Autostrada, Sezione 4)] - Oss. 1 [x=-60.00 y=2.14]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.65 cd/m ²	3.30 cd/m ²	4.04 cd/m ²	0.90	0.82	0.90

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

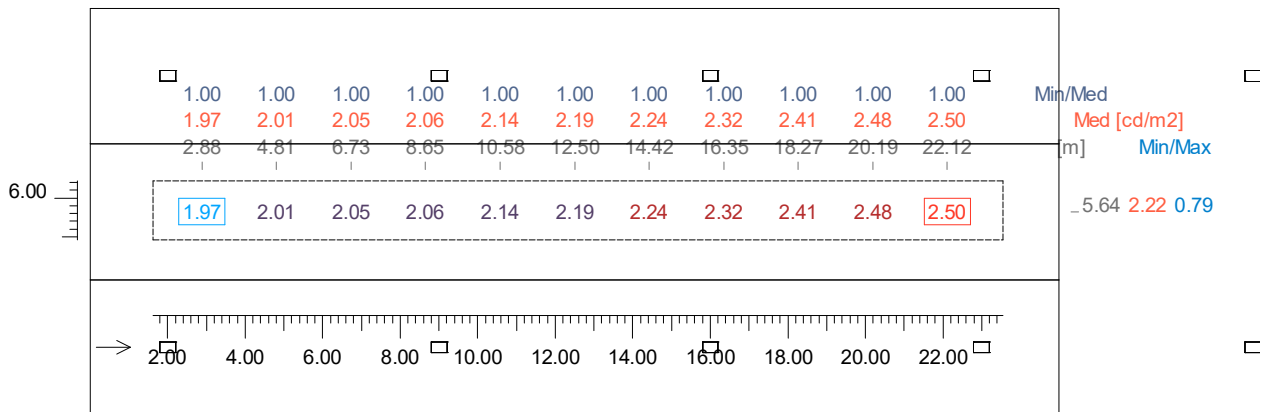


4.4 Valori delle Luminanze su: 2 - Autostrada [UI,c2 (Autostrada, Sezione 4)] - Oss. 1 [x=-60.00 y=2.14]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.22 cd/m ²	1.97 cd/m ²	2.50 cd/m ²	0.89	0.79	0.89

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

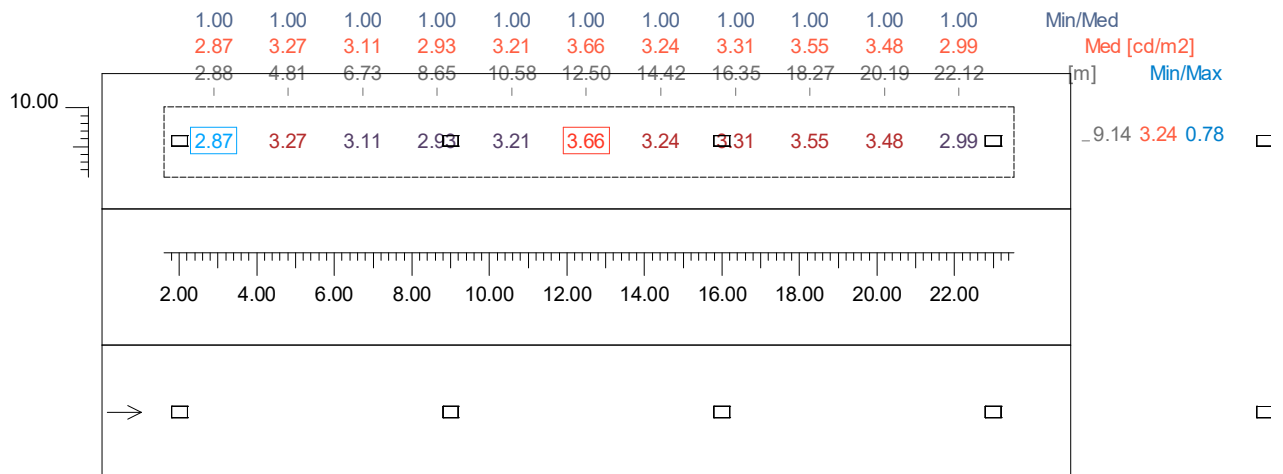


4.5 Valori delle Luminanze su: 2 - Autostrada [UI,c3 (Autostrada, Sezione 4)] - Oss. 1 [x=-60.00 y=2.14]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.24 cd/m ²	2.87 cd/m ²	3.66 cd/m ²	0.89	0.78	0.89

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

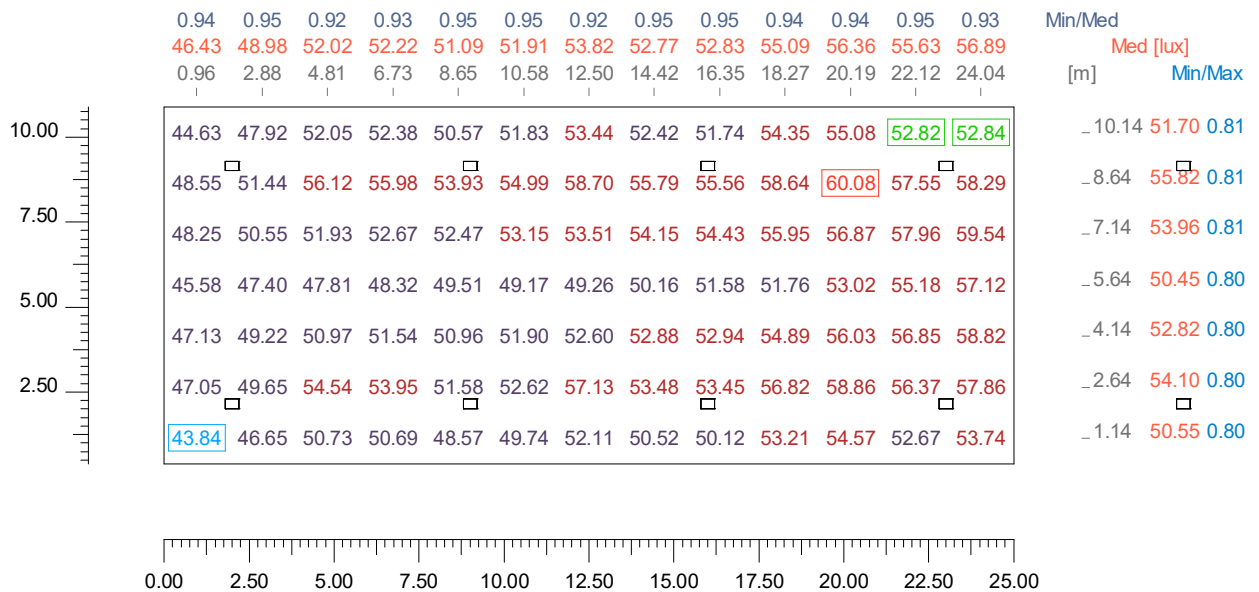


4.6 Valori di Illuminamento su: 2 - Autostrada

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.77 lx	43.84 lx	60.08 lx	0.83	0.73	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

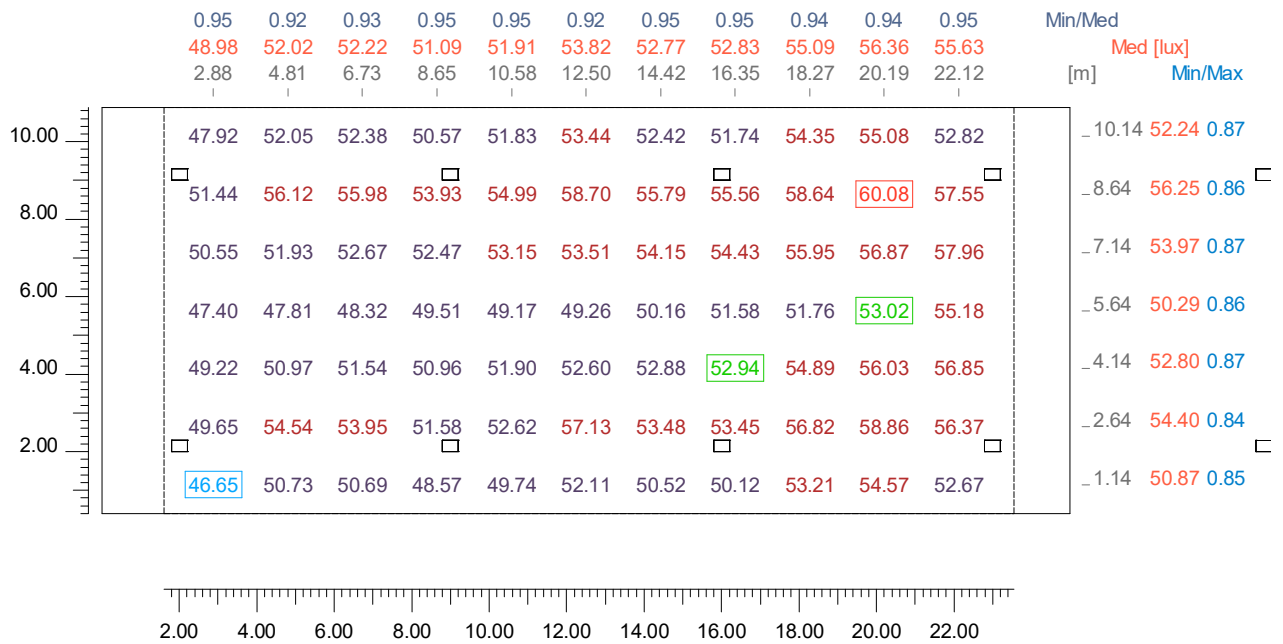


4.7 Valori di Illuminamento su: 2 - Autostrada [Lp,c (Autostrada, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.97 lx	46.65 lx	60.08 lx	0.88	0.78	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

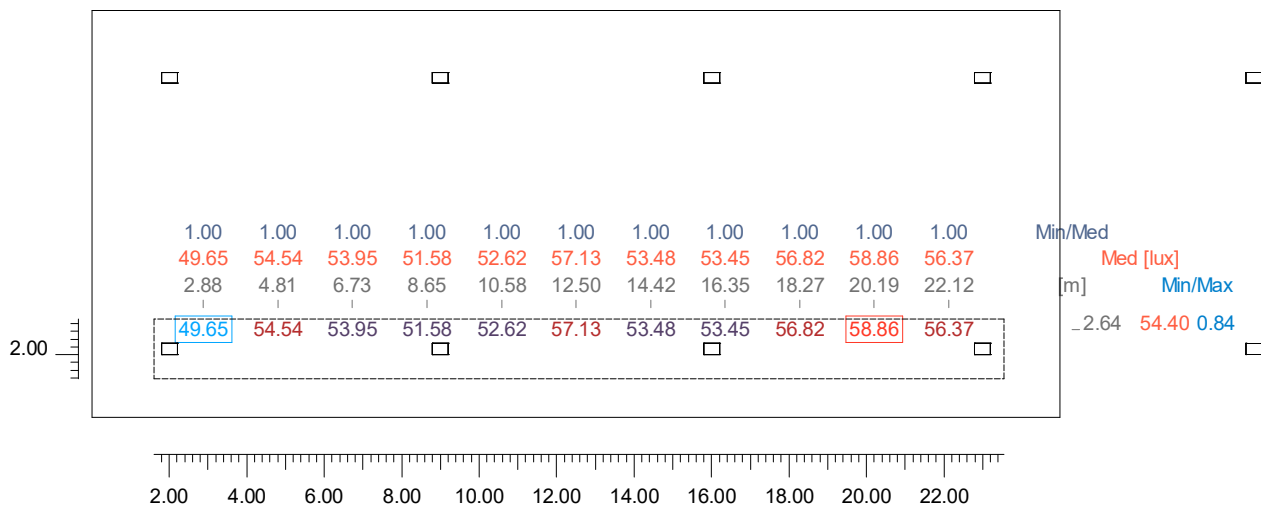


4.8 Valori di Illuminamento su: 2 - Autostrada [UI,c1 (Autostrada, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	54.40 lx	49.65 lx	58.86 lx	0.91	0.84	0.92

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

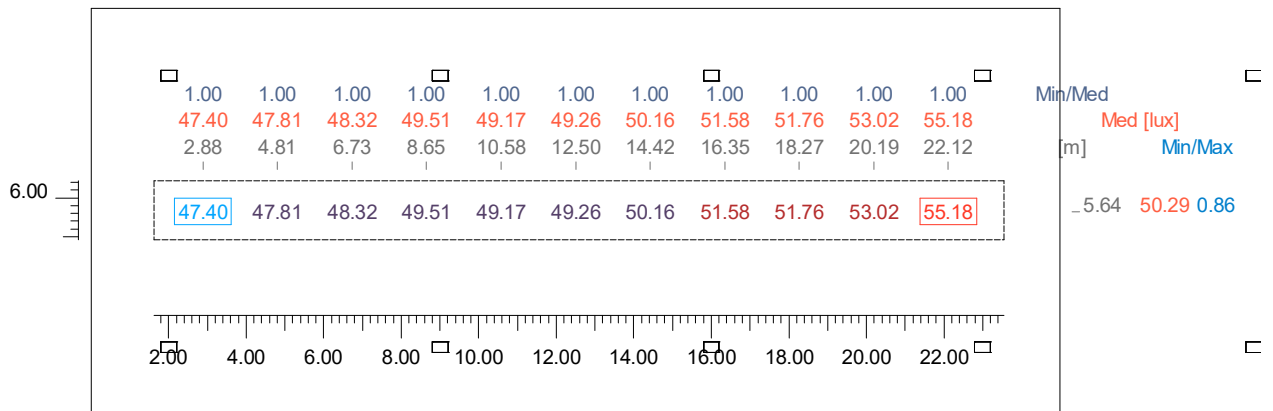


4.9 Valori di Illuminamento su: 2 - Autostrada [UI,c2 (Autostrada, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	50.29 lx	47.40 lx	55.18 lx	0.94	0.86	0.91

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

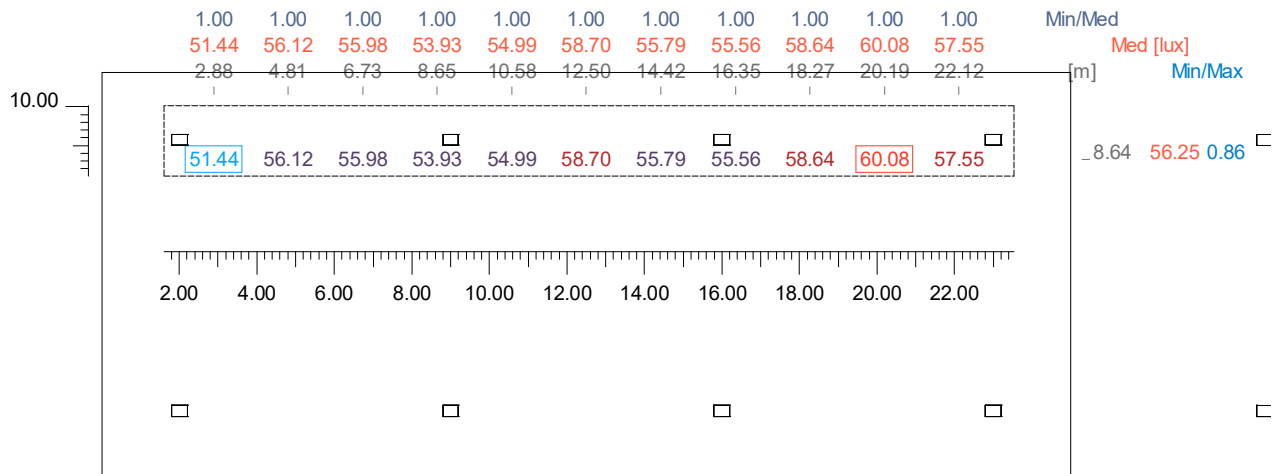


4.10 Valori di Illuminamento su: 2 - Autostrada [UI,c3 (Autostrada, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	56.25 lx	51.44 lx	60.08 lx	0.91	0.86	0.94

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

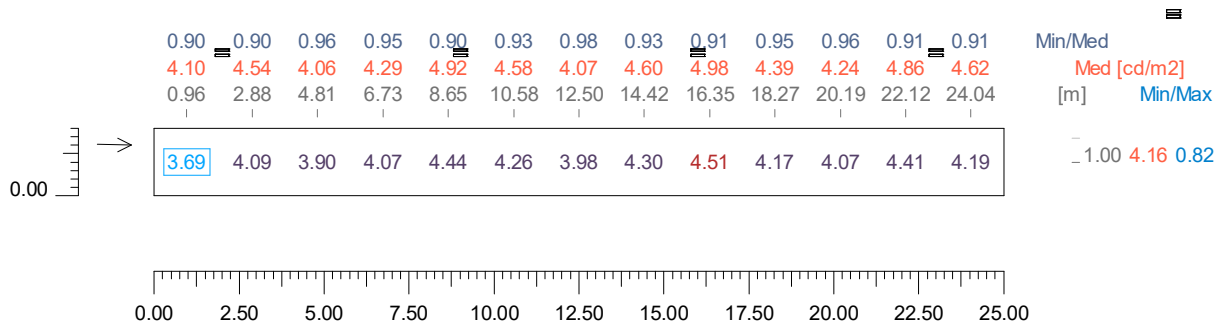


4.11 Valori delle Luminanze su: Parete Virtuale Sinistra - Oss. 1 (Lambert) [x=-60.00 y=2.14] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.48 cd/m ²	3.69 cd/m ²	5.46 cd/m ²	0.82	0.68	0.82

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

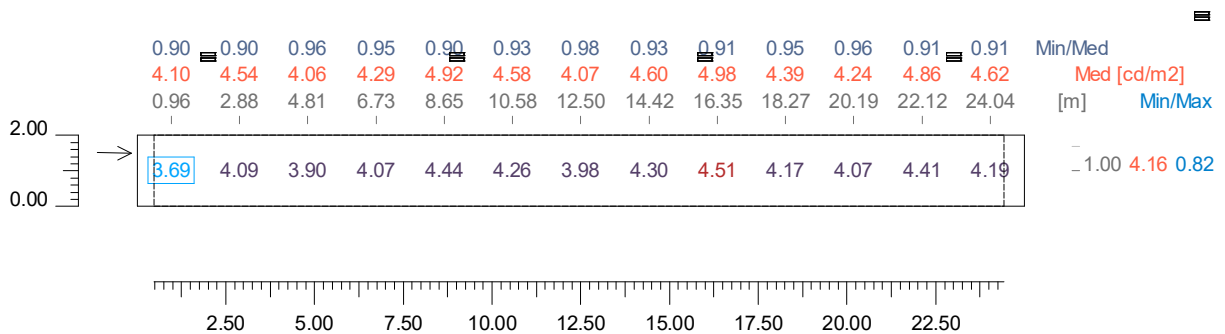


4.12 Valori delle Luminanze su: Parete Virtuale Sinistra [Lp,ps (Autostrada, Sezione 4)] - Oss. 1 (L

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.48 cd/m ²	3.69 cd/m ²	5.46 cd/m ²	0.82	0.68	0.82

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

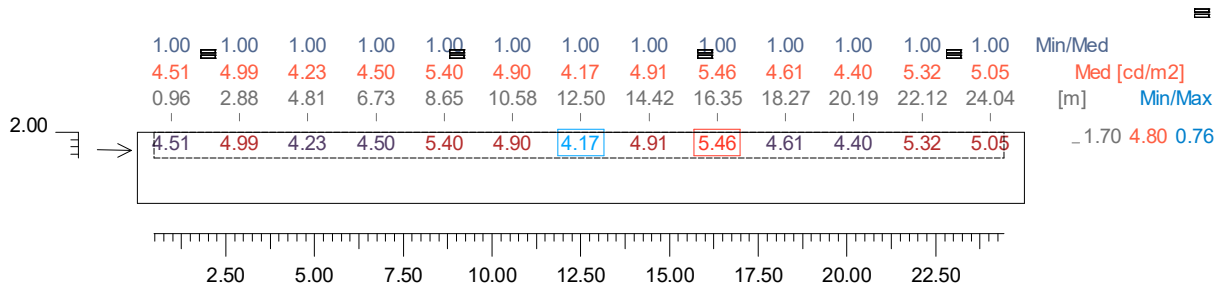


4.13 Valori delle Luminanze su: Parete Virtuale Sinistra [UI,ps (Autostrada, Sezione 4)] - Oss. 1 (La

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.80 cd/m2	4.17 cd/m2	5.46 cd/m2	0.87	0.76	0.88

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

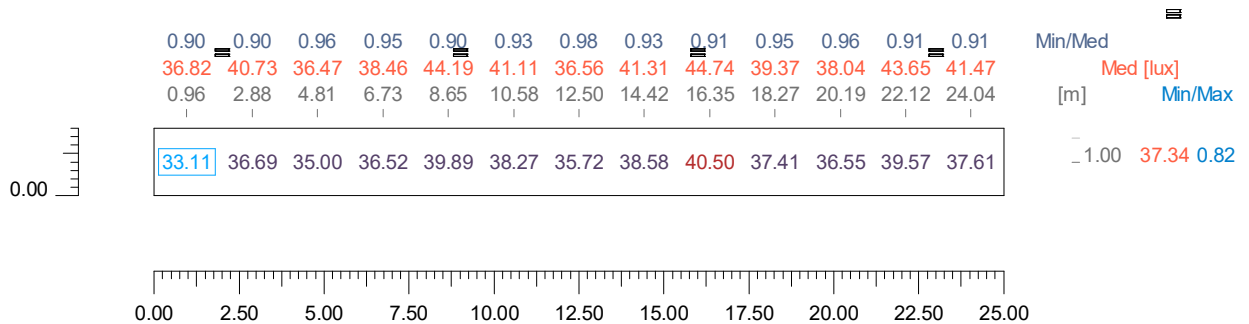


4.14 Valori di Illuminamento su: Parete Virtuale Sinistra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	40.23 lx	33.11 lx	48.98 lx	0.82	0.68	0.82

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

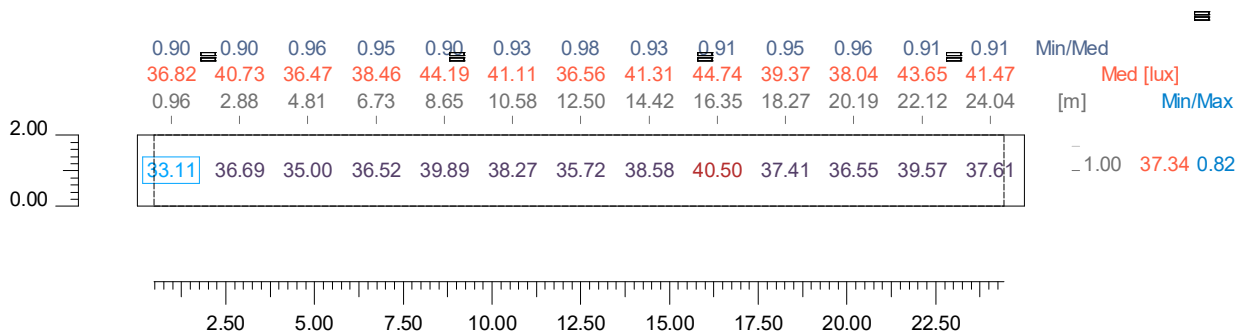


4.15 Valori di Illuminamento su: Parete Virtuale Sinistra [Lp,ps (Autostrada, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	40.23 lx	33.11 lx	48.98 lx	0.82	0.68	0.82

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

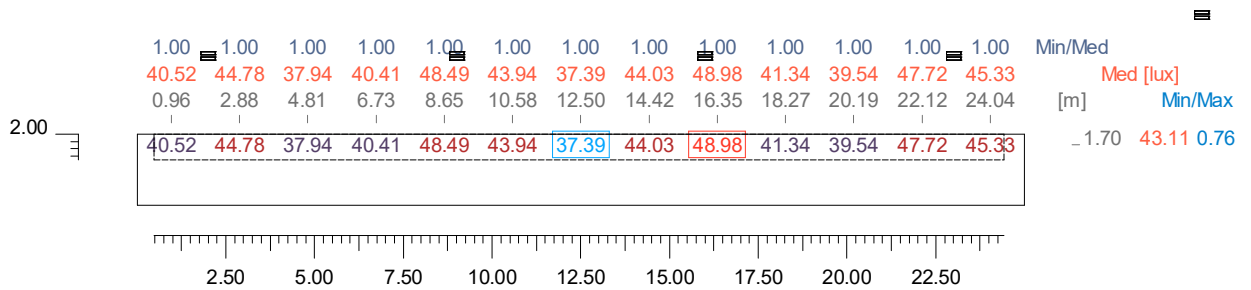


4.16 Valori di Illuminamento su: Parete Virtuale Sinistra [UI,ps (Autostrada, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	43.11 lx	37.39 lx	48.98 lx	0.87	0.76	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

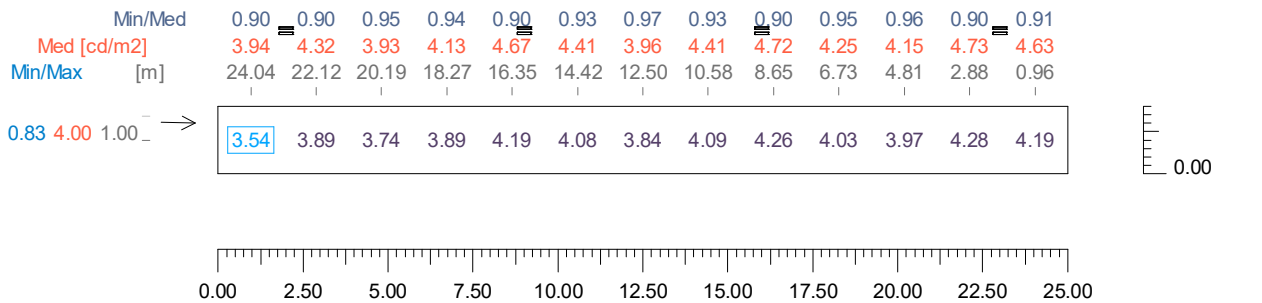


4.17 Valori delle Luminanze su: Parete Virtuale Destra - Oss. 1 (Lambert) [x=-60.00 y=2.14] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.33 cd/m2	3.54 cd/m2	5.19 cd/m2	0.82	0.68	0.83

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

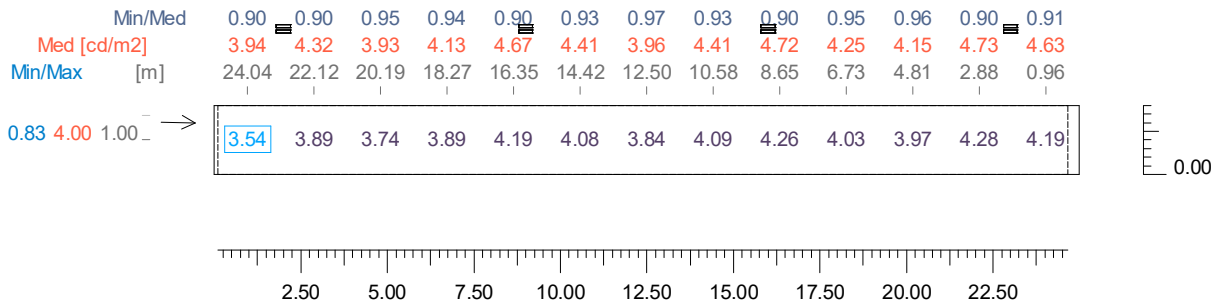


4.18 Valori delle Luminanze su: Parete Virtuale Destra [Lp,pd (Autostrada, Sezione 4)] - Oss. 1 (La

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.33 cd/m ²	3.54 cd/m ²	5.19 cd/m ²	0.82	0.68	0.83

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

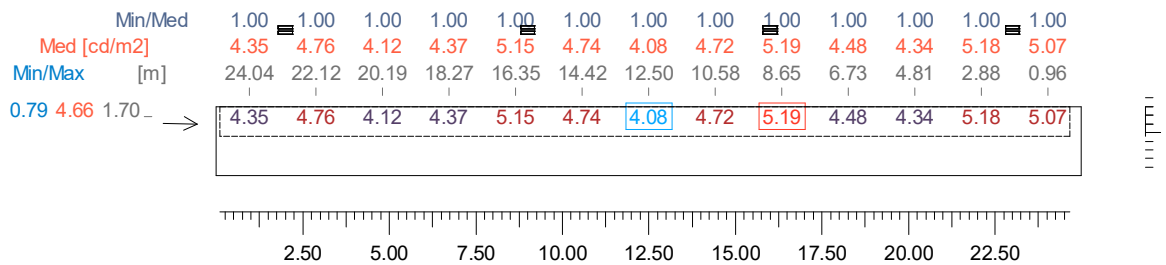


4.19 Valori delle Luminanze su: Parete Virtuale Destra [UI,pd (Autostrada, Sezione 4)] - Oss. 1 (Lar

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.66 cd/m2	4.08 cd/m2	5.19 cd/m2	0.88	0.79	0.90

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

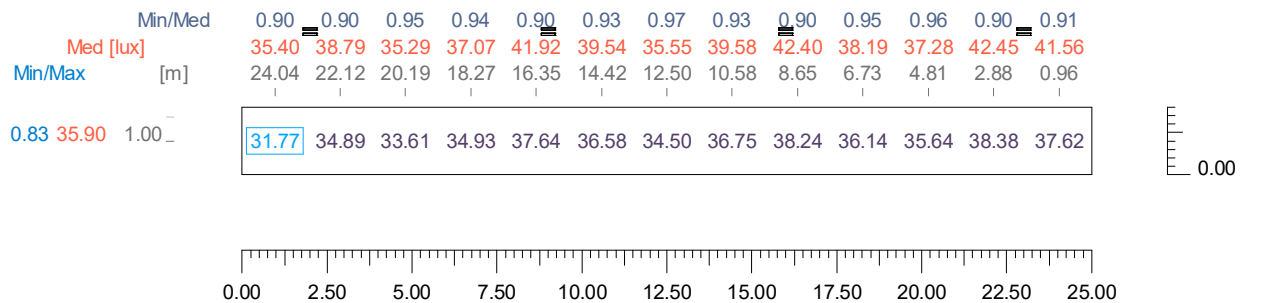


4.20 Valori di Illuminamento su: Parete Virtuale Destra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	38.85 lx	31.77 lx	46.56 lx	0.82	0.68	0.83

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

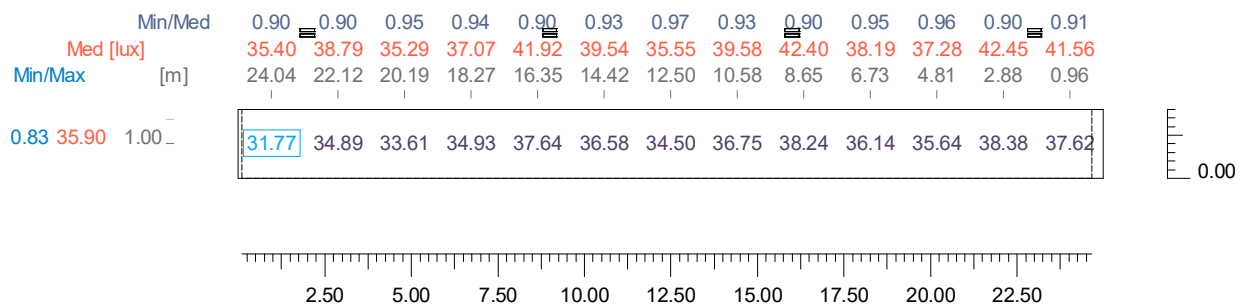


4.21 Valori di Illuminamento su: Parete Virtuale Destra [Lp,pd (Autostrada, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	38.85 lx	31.77 lx	46.56 lx	0.82	0.68	0.83

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

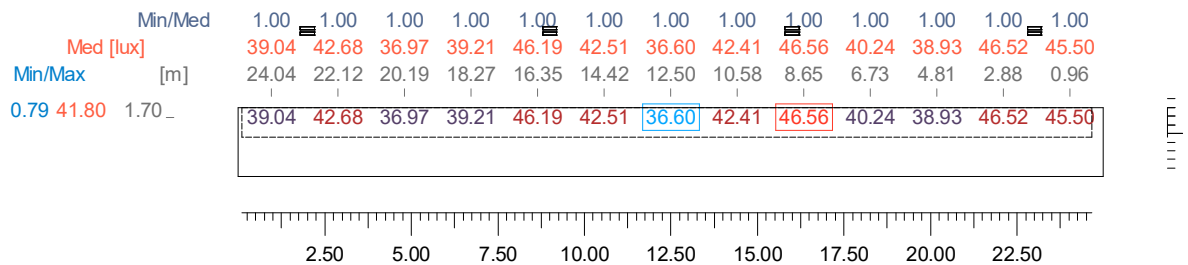


4.22 Valori di Illuminamento su: Parete Virtuale Destra [UI,pd (Autostrada, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	41.80 lx	36.60 lx	46.56 lx	0.88	0.79	0.90

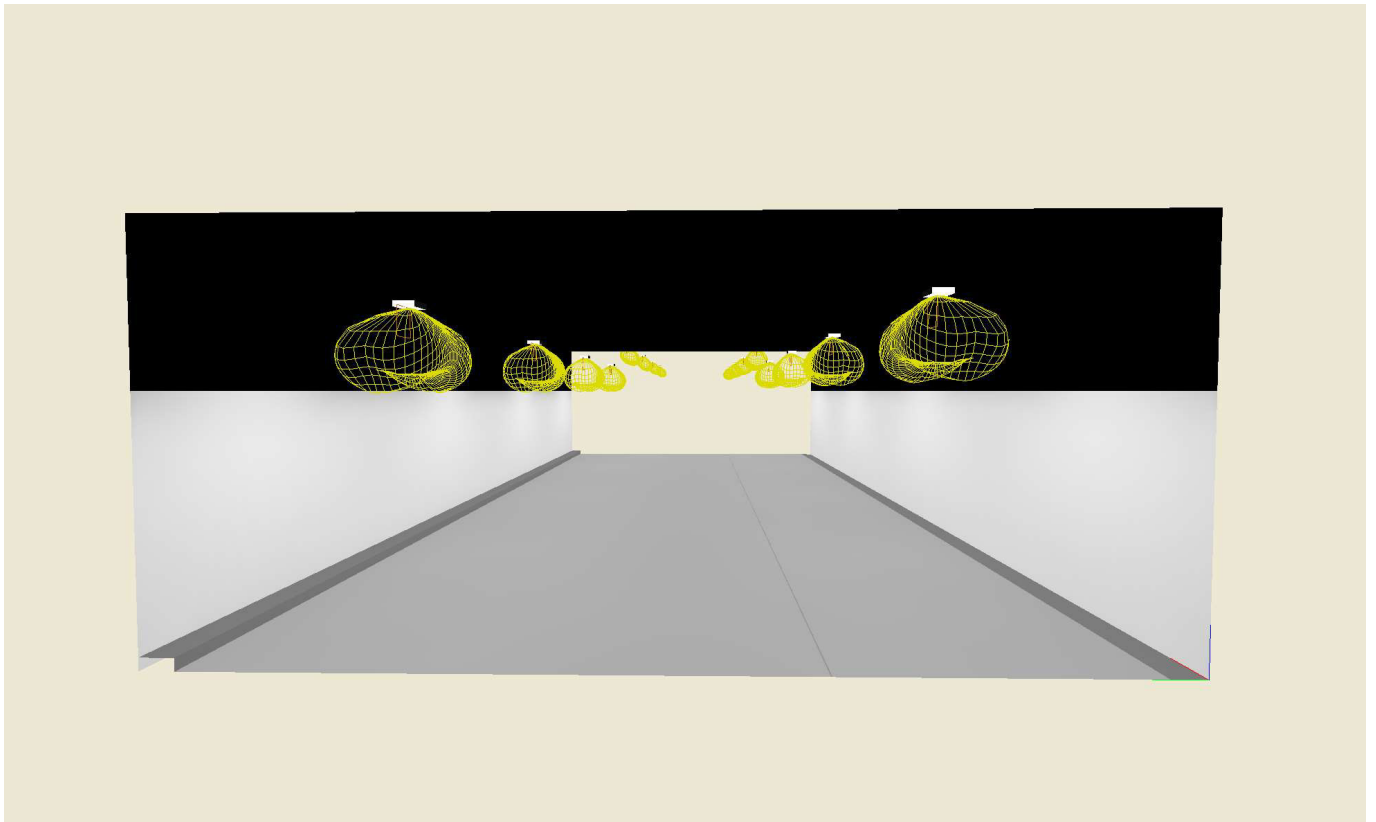
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

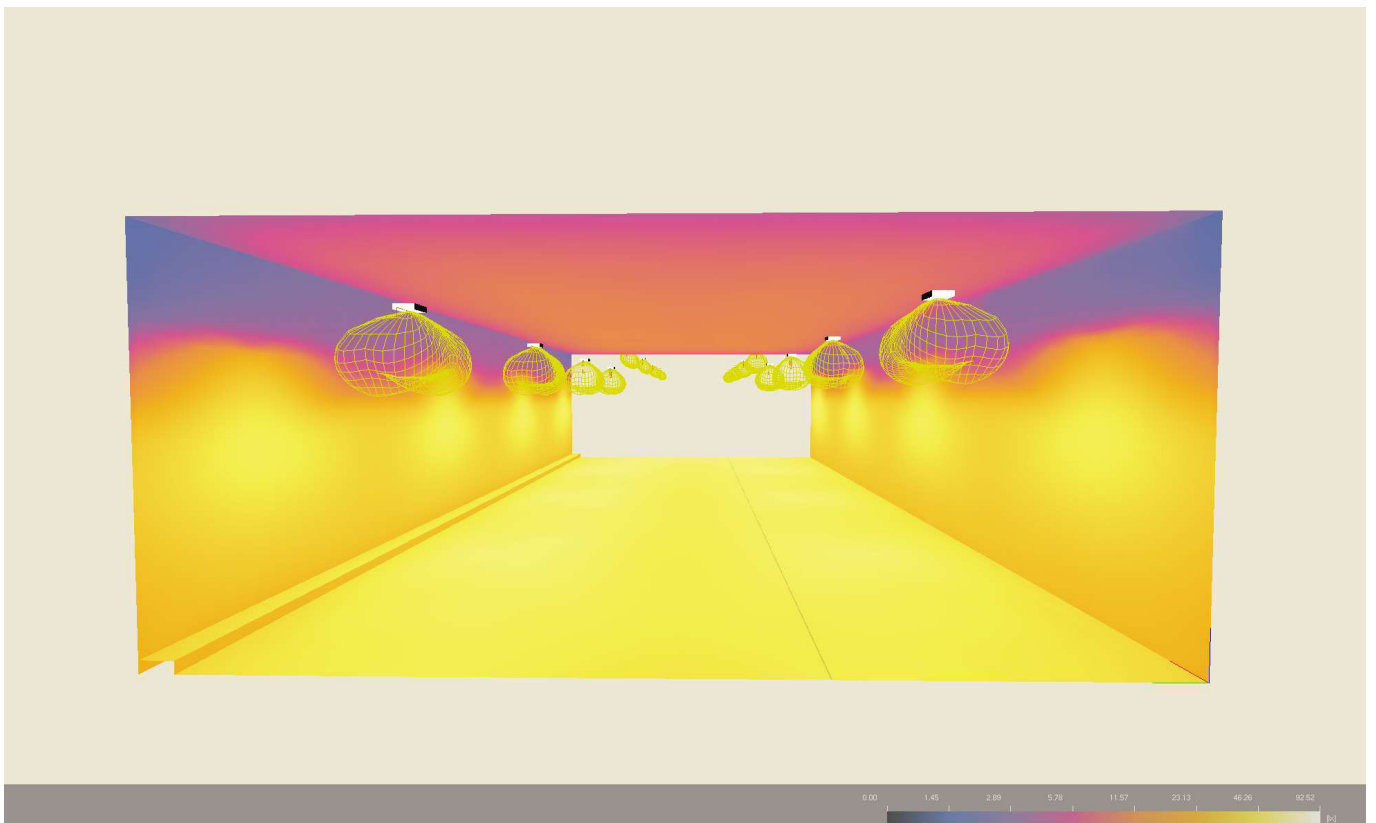


5. Immagini

5.1 Immagini



5.2 Immagini



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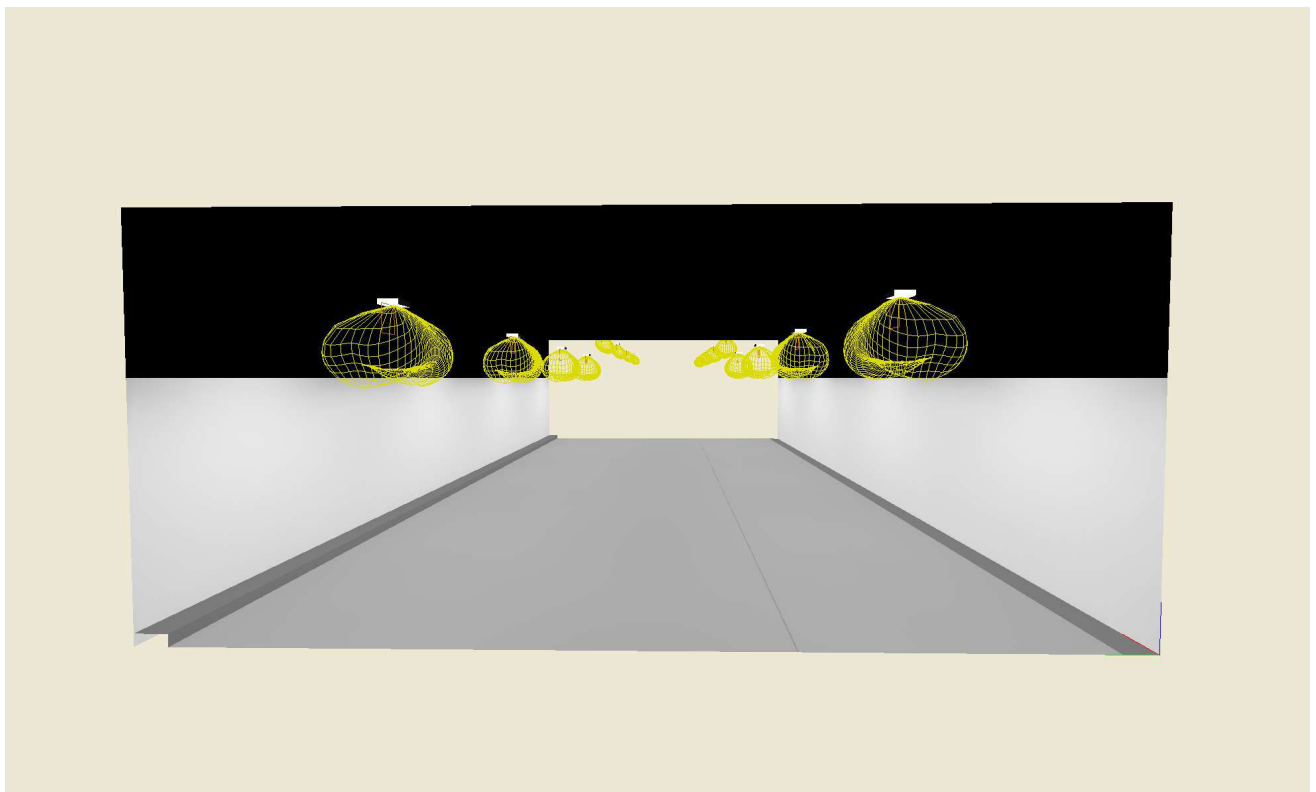
Galleria San Donnino

Note Installazione: Permanente - Tangenziale - Sezione 4
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 14/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria 4.85m
Fattore di manutenzione 80%
H. corpi illuminanti come da tabella sotto

Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

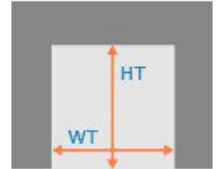
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

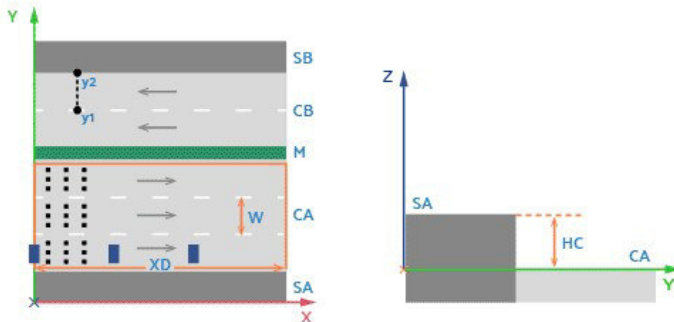
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice	Cubo (A)
Larghezza (WT)	11.28 m
Altezza (HT)	4.85 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%

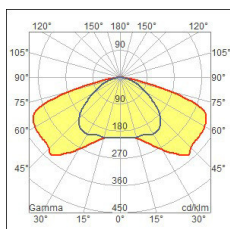


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rif. Fattore q0
1. Marciapiede	Pista Ciclo/Pedonale	Marciapiede	--->	0.39	0.00	0.39	3	3	0.00		0.3000
2. Tangenziale	Carrabile			10.50	0.39	10.89	7		0.00	C2	0.0560
	2.1	Corsia 1	--->	3.50	0.39	3.89		3			
	2.2	Corsia 2	--->	3.50	3.89	7.39		3			
	2.3	Corsia 3	--->	3.50	7.39	10.89		3			
3. Marciapiede B	Pista Ciclo/Pedonale	Marciapiede	--->	0.39	10.89	11.28	3	3	0.15		0.3000

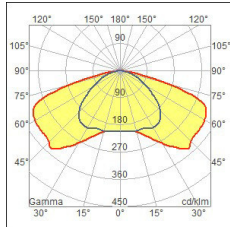


1.2 Informazioni Apparecchi/Rilievi

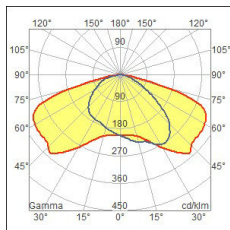
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8S 16D440_W244S (Radiant 8S 16D440_W244S)	Radiant 8S 16D440_W244S (Radiant 8S 16D440_W244S)	3307.00	0.80	100 %	255,255,255	12	Sorg-A	1



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coef. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	4	Sorg-B	1



C	Detas SpA Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	Radiant 8S 16D600_W279A (Radiant 8S 16D600_W279A)	4452.00	0.80	100 %	255,255,255	8	Sorg-C	1
---	---	--	---------	------	-------	-------------	---	--------	---

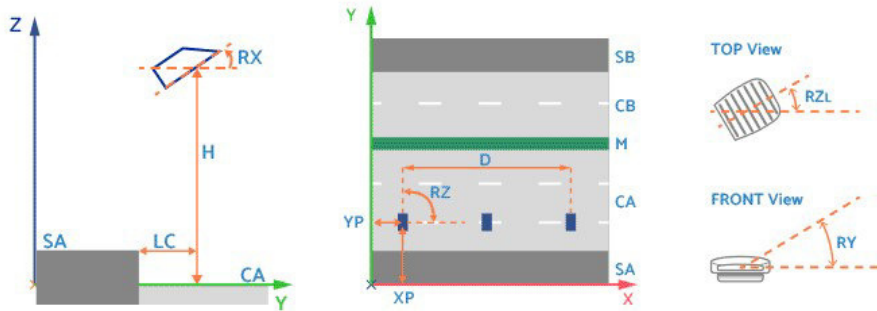


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		16D440 22W	16D440 22W	22.00	0.0000	3307	6000	12
Sorg-B		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	4
Sorg-C		16D600 30W	16D600 30W	30.00	0.0000	4452	6000	8

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altezz.App. [m] (H)	Numer. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila B	B		-40.00	2.15	5.45	4	10.50	0.00	31.50	0	0	-0
Fila B	C		-40.00	9.15	5.35	4	10.50	0.00	31.50	0	180	-0
Fila B	A		2.00	2.15	4.10	4	7.00	0.00	21.00	0	0	-0
Fila B	A		2.00	9.15	4.00	4	7.00	0.00	21.00	0	180	-0
Fila B	A		30.00	2.15	5.25	4	10.50	0.00	31.50	0	180	-0
Fila B	C		30.00	9.15	5.40	4	10.50	0.00	31.50	0	180	-0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Marciapiede	Risultati	EAV = 45.3 lux	EMIN = 40.73 lux		
2 - Tangenziale	Risultati	LAV = 2.78 cd/m ²	Uo(L) = 0.66	Ul = 0.67	fTI = 7 %
	Oss. 1) [x=-60.00 y=2.14] m	LAV = 2.79 cd/m ²	Uo(L) = 0.67	Ul = 0.67 *	
	Oss. 2) [x=-60.00 y=5.64] m	LAV = 2.79 cd/m ²	Uo(L) = 0.66 *	Ul = 0.80	
	Oss. 3) [x=-60.00 y=9.14] m	LAV = 2.78 cd/m ² *	Uo(L) = 0.67	Ul = 0.72	
	Oss.Ti 1) [x=-50.86 y=2.14] n				fTI = 7.43 % *
	Oss.Ti 2) [x=-50.86 y=5.64] n				fTI = 6.68 %
	Oss.Ti 3) [x=-50.86 y=9.14] n				fTI = 6.70 %
	Lv = 0.28				
3 - Marciapiede B	Risultati	EAV = 46.9 lux	EMIN = 40.46 lux		

Riepilogo Uniformità di Luminanz

Sezione Permanente	[10.00..25.00] m	(Luminanza Costante)			
Parete Destra	LAV%,(pd/c,o1) = 155.6 %	LAV,pd=4.46 cd/m ²	Uo,pd=0.88	Ul,pd=0.77 (y=1.70 m)	
Parete Sinistra	LAV%,(ps/c,o1) = 160.7 %	LAV,ps=4.61 cd/m ²	Uo,ps=0.87	Ul,ps=0.75 (y=1.70 m)	
1 - Marciapiede	LAV%,(md/c,o1) = 153.0 %	LAV,md,o1=4.39 cd/m ²	Uo,md,o1=0.97	Ul,o1=0.97 (y=0.20 m)	
2 - Tangenziale	--->	LAV,c,o3=2.85 cd/m ²	Uo,c,o2=0.72	Ul,o1=0.67 (y=2.14 m)	
--->	Oss. 1) [x=-60.00 y=2.14] m	LAV,c,o1=2.87 cd/m ²	Uo,c,o1=0.73	Ul,o1=0.67 (y=2.14 m) *	
--->	Oss. 2) [x=-60.00 y=5.64] m	LAV,c,o2=2.86 cd/m ²	Uo,c,o2=0.72 *	Ul,o2=0.90 (y=5.64 m)	
--->	Oss. 3) [x=-60.00 y=9.14] m	LAV,c,o3=2.85 cd/m ² *	Uo,c,o3=0.72	Ul,o3=0.72 (y=9.14 m)	
3 - Marciapiede B	LAV%,(ms/c,o1) = 159.1 %	LAV,ms,o1=4.56 cd/m ²	Uo,ms,o1=0.95	Ul,o1=0.95 (y=11.09 m)	
pd: Parete Destra	ps: Parete Sinistra	c: Carreggiata	cm: Corsie di Marcia		
md: Marciapiede Destro	ms: Marciapiede Sinistro	o: Osservatore			

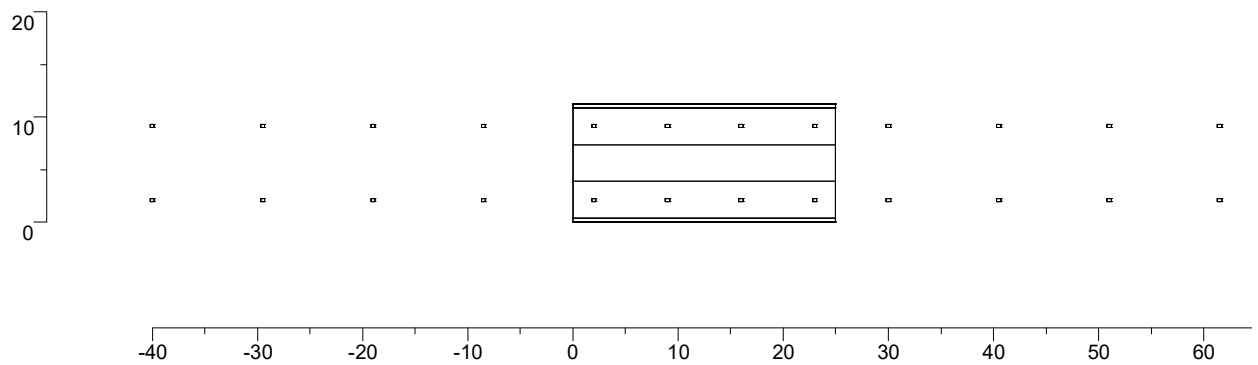
Inquinamento Luminoso

Rapporto Medio - Rn -

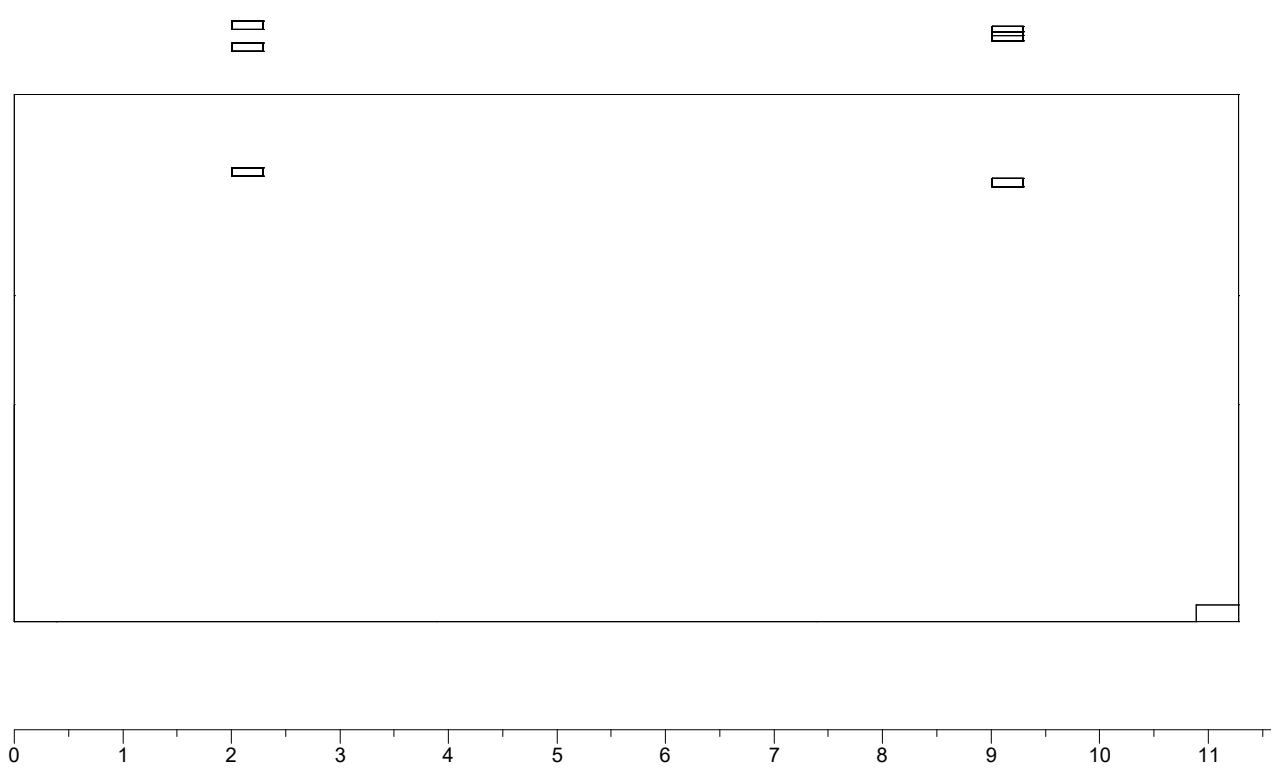
0.00 %

2. Viste Ambiente

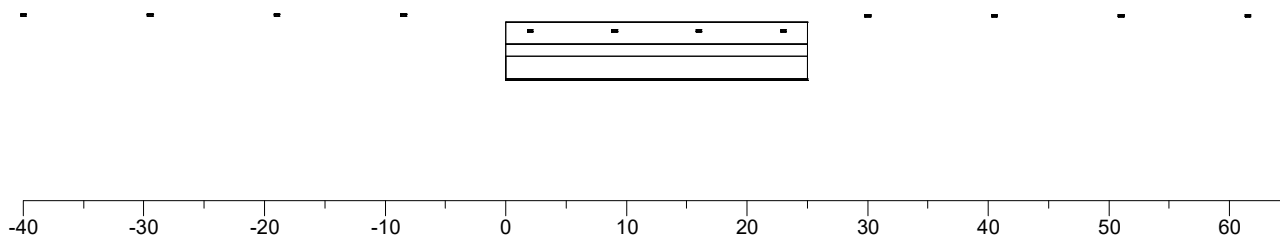
2.1 Vista 2D in Pianta



2.2 Vista Laterale

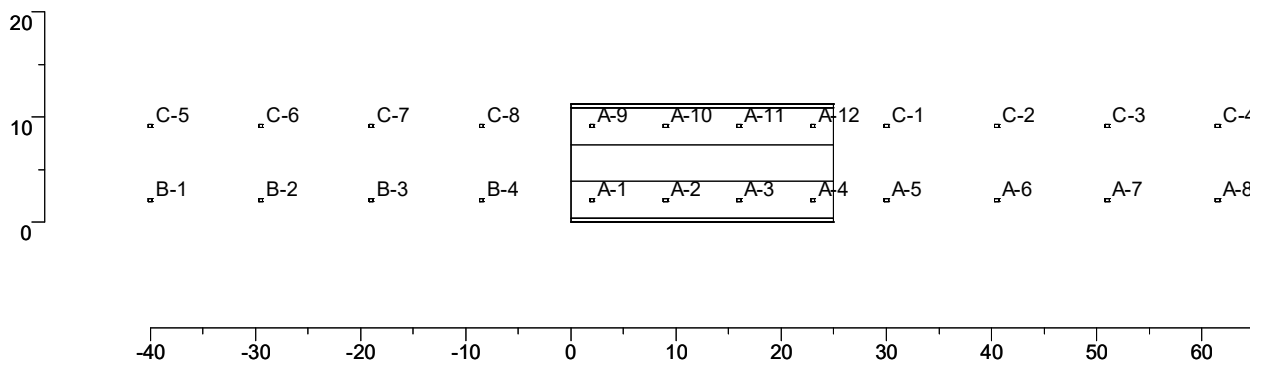


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	2.00	2.15	4.10	0.0	-0.0	0.0	Radiant 8S 16D440_W244S	16D440 22W
A-2	100 %	9.00	2.15	4.10	0.0	-0.0	0.0	Radiant 8S 16D440_W244S	16D440 22W
A-3	100 %	16.00	2.15	4.10	0.0	-0.0	0.0	Radiant 8S 16D440_W244S	16D440 22W
A-4	100 %	23.00	2.15	4.10	0.0	-0.0	0.0	Radiant 8S 16D440_W244S	16D440 22W
A-5	100 %	30.00	2.15	5.25	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
A-6	100 %	40.50	2.15	5.25	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
A-7	100 %	51.00	2.15	5.25	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
A-8	100 %	61.50	2.15	5.25	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
A-9	100 %	2.00	9.15	4.00	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
A-10	100 %	9.00	9.15	4.00	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
A-11	100 %	16.00	9.15	4.00	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
A-12	100 %	23.00	9.15	4.00	0.0	-0.0	180.0	Radiant 8S 16D440_W244S	16D440 22W
B-1	100 %	-40.00	2.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-2	100 %	-29.50	2.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-3	100 %	-19.00	2.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-4	100 %	-8.50	2.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
C-1	100 %	30.00	9.15	5.40	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-2	100 %	40.50	9.15	5.40	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-3	100 %	51.00	9.15	5.40	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-4	100 %	61.50	9.15	5.40	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-5	100 %	-40.00	9.15	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-6	100 %	-29.50	9.15	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-7	100 %	-19.00	9.15	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W
C-8	100 %	-8.50	9.15	5.35	0.0	-0.0	180.0	Radiant 8S 16D600_W279A	16D600 30W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8S 16D440_W244S	100 %	2.00	2.15	4.10	0.0	-0.0	0.0	2.00	2.15	0.00	0.0
A-2		Radiant 8S 16D440_W244S	100 %	9.00	2.15	4.10	0.0	-0.0	0.0	9.00	2.15	0.00	0.0
A-3		Radiant 8S 16D440_W244S	100 %	16.00	2.15	4.10	0.0	-0.0	0.0	16.00	2.15	0.00	0.0
A-4		Radiant 8S 16D440_W244S	100 %	23.00	2.15	4.10	0.0	-0.0	0.0	23.00	2.15	0.00	0.0
A-5		Radiant 8S 16D440_W244S	100 %	30.00	2.15	5.25	0.0	-0.0	180.0	30.00	2.15	0.00	0.0
A-6		Radiant 8S 16D440_W244S	100 %	40.50	2.15	5.25	0.0	-0.0	180.0	40.50	2.15	0.00	0.0
A-7		Radiant 8S 16D440_W244S	100 %	51.00	2.15	5.25	0.0	-0.0	180.0	51.00	2.15	0.00	0.0
A-8		Radiant 8S 16D440_W244S	100 %	61.50	2.15	5.25	0.0	-0.0	180.0	61.50	2.15	0.00	0.0
A-9		Radiant 8S 16D440_W244S	100 %	2.00	9.15	4.00	0.0	-0.0	180.0	2.00	9.15	0.00	0.0
A-10		Radiant 8S 16D440_W244S	100 %	9.00	9.15	4.00	0.0	-0.0	180.0	9.00	9.15	0.00	0.0
A-11		Radiant 8S 16D440_W244S	100 %	16.00	9.15	4.00	0.0	-0.0	180.0	16.00	9.15	0.00	0.0
A-12		Radiant 8S 16D440_W244S	100 %	23.00	9.15	4.00	0.0	-0.0	180.0	23.00	9.15	0.00	0.0
B-1		Radiant 8S 16D700_W244S	100 %	-40.00	2.15	5.45	0.0	-0.0	0.0	-40.00	2.15	0.00	0.0
B-2		Radiant 8S 16D700_W244S	100 %	-29.50	2.15	5.45	0.0	-0.0	0.0	-29.50	2.15	0.00	0.0
B-3		Radiant 8S 16D700_W244S	100 %	-19.00	2.15	5.45	0.0	-0.0	0.0	-19.00	2.15	0.00	0.0
B-4		Radiant 8S 16D700_W244S	100 %	-8.50	2.15	5.45	0.0	-0.0	0.0	-8.50	2.15	0.00	0.0
C-1		Radiant 8S 16D600_W279A	100 %	30.00	9.15	5.40	0.0	-0.0	180.0	30.00	9.15	-0.00	0.0
C-2		Radiant 8S 16D600_W279A	100 %	40.50	9.15	5.40	0.0	-0.0	180.0	40.50	9.15	-0.00	0.0
C-3		Radiant 8S 16D600_W279A	100 %	51.00	9.15	5.40	0.0	-0.0	180.0	51.00	9.15	-0.00	0.0
C-4		Radiant 8S 16D600_W279A	100 %	61.50	9.15	5.40	0.0	-0.0	180.0	61.50	9.15	-0.00	0.0
C-5		Radiant 8S 16D600_W279A	100 %	-40.00	9.15	5.35	0.0	-0.0	180.0	-40.00	9.15	0.00	0.0
C-6		Radiant 8S 16D600_W279A	100 %	-29.50	9.15	5.35	0.0	-0.0	180.0	-29.50	9.15	0.00	0.0
C-7		Radiant 8S 16D600_W279A	100 %	-19.00	9.15	5.35	0.0	-0.0	180.0	-19.00	9.15	0.00	0.0
C-8		Radiant 8S 16D600_W279A	100 %	-8.50	9.15	5.35	0.0	-0.0	180.0	-8.50	9.15	0.00	0.0

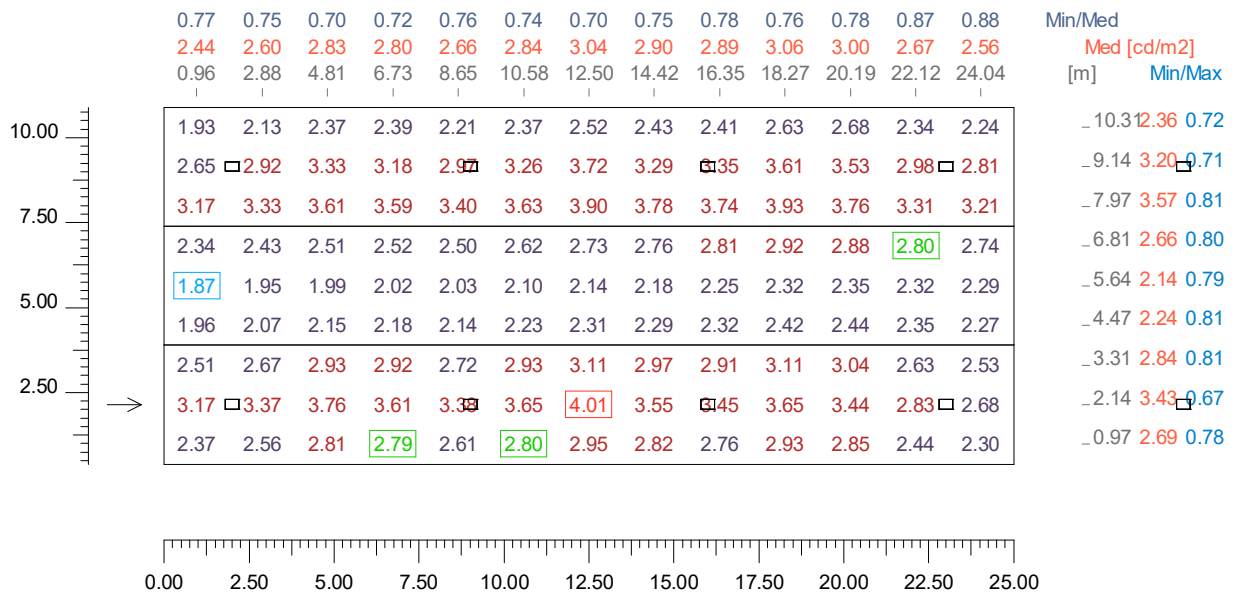
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 2 - Tangenziale - Oss. 1 [x=-60.00 y=2.14] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.79 cd/m2	1.87 cd/m2	4.01 cd/m2	0.67	0.47	0.70

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

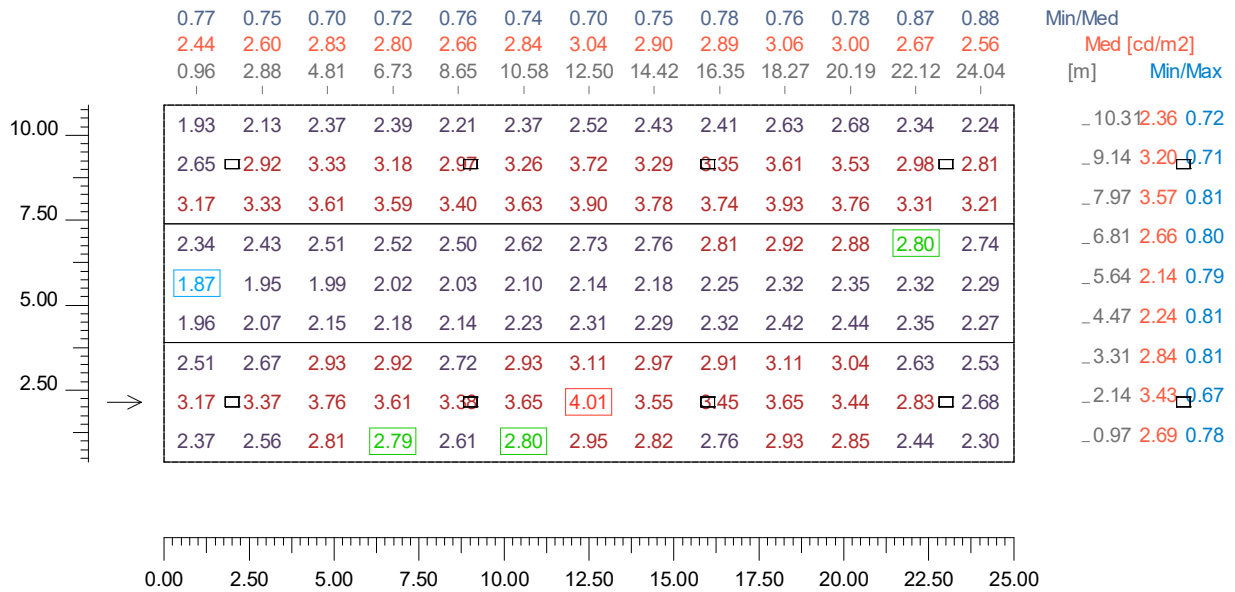


4.2 Valori delle Luminanze su: 2 - Tangenziale [Lp,c (Tangenziale, Sezione 4)] - Oss. 1 [x=-60.00 y=2.14

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.79 cd/m2	1.87 cd/m2	4.01 cd/m2	0.67	0.47	0.70

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

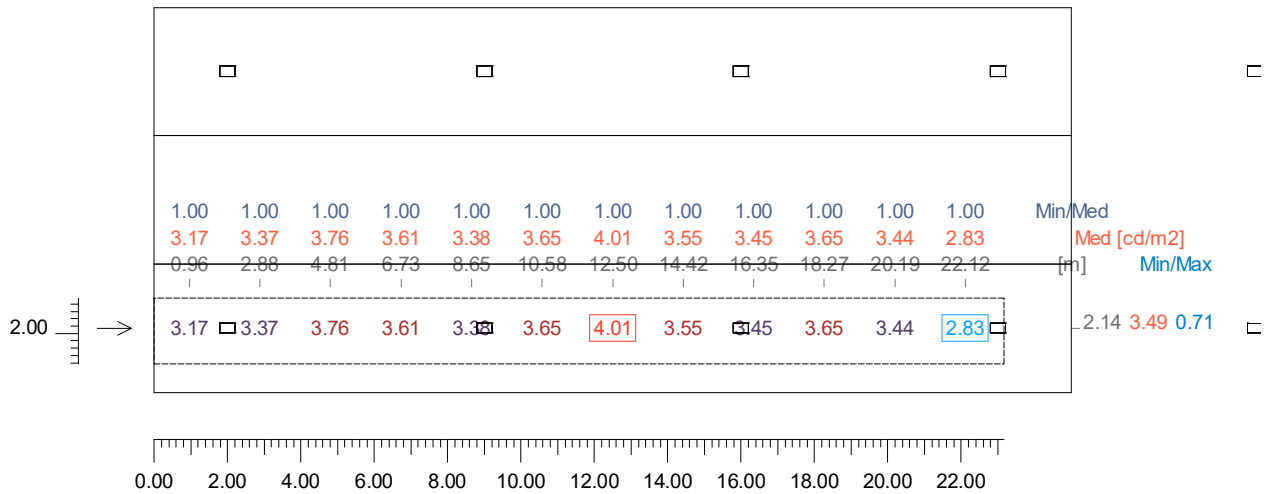


4.3 Valori delle Luminanze su: 2 - Tangenziale [UI,c1 (Tangenziale, Sezione 4)] - Oss. 1 [x=-60.00 y=2.14

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.49 cd/m ²	2.83 cd/m ²	4.01 cd/m ²	0.81	0.71	0.87

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

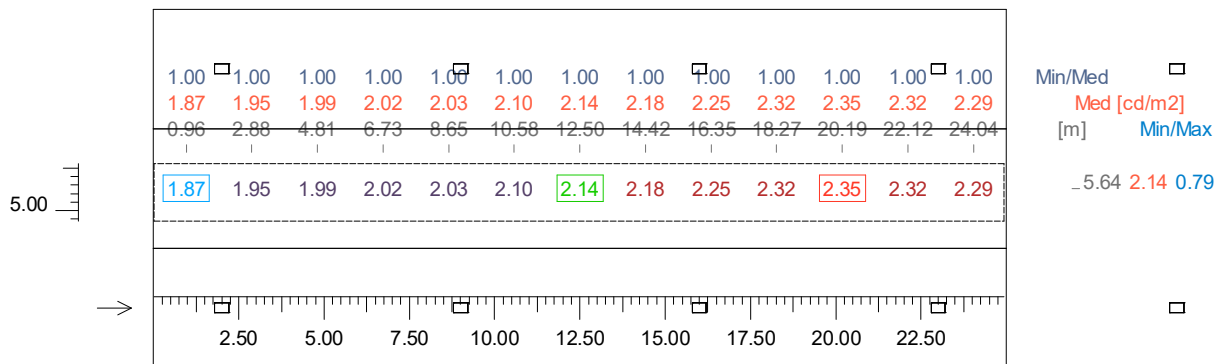


4.4 Valori delle Luminanze su: 2 - Tangenziale [UI,c2 (Tangenziale, Sezione 4)] - Oss. 1 [x=-60.00 y=2.14

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.14 cd/m2	1.87 cd/m2	2.35 cd/m2	0.87	0.79	0.91

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

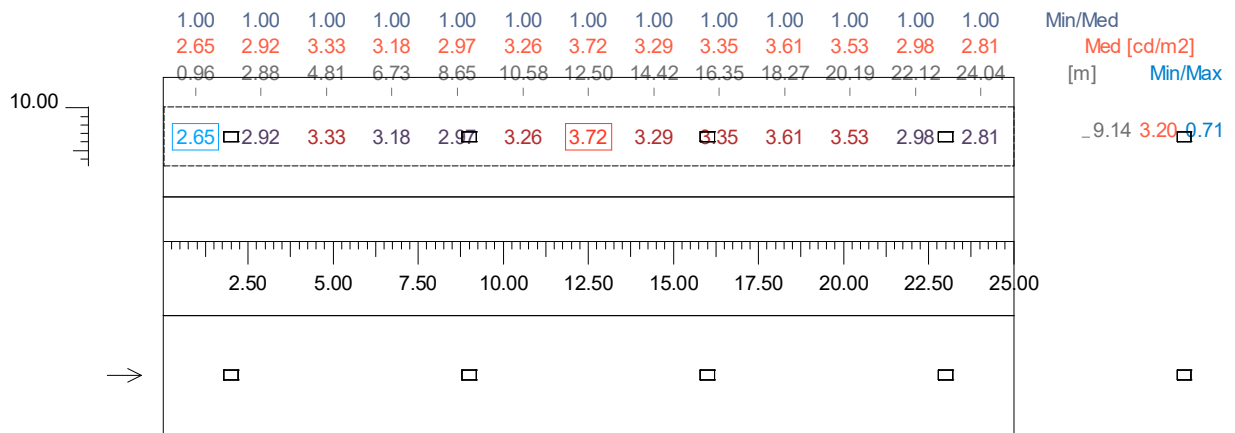


4.5 Valori delle Luminanze su: 2 - Tangenziale [UI,c3 (Tangenziale, Sezione 4)] - Oss. 1 [x=-60.00 y=2.14

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.20 cd/m2	2.65 cd/m2	3.72 cd/m2	0.83	0.71	0.86

Osservatore
Tipo Calcolo

[x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

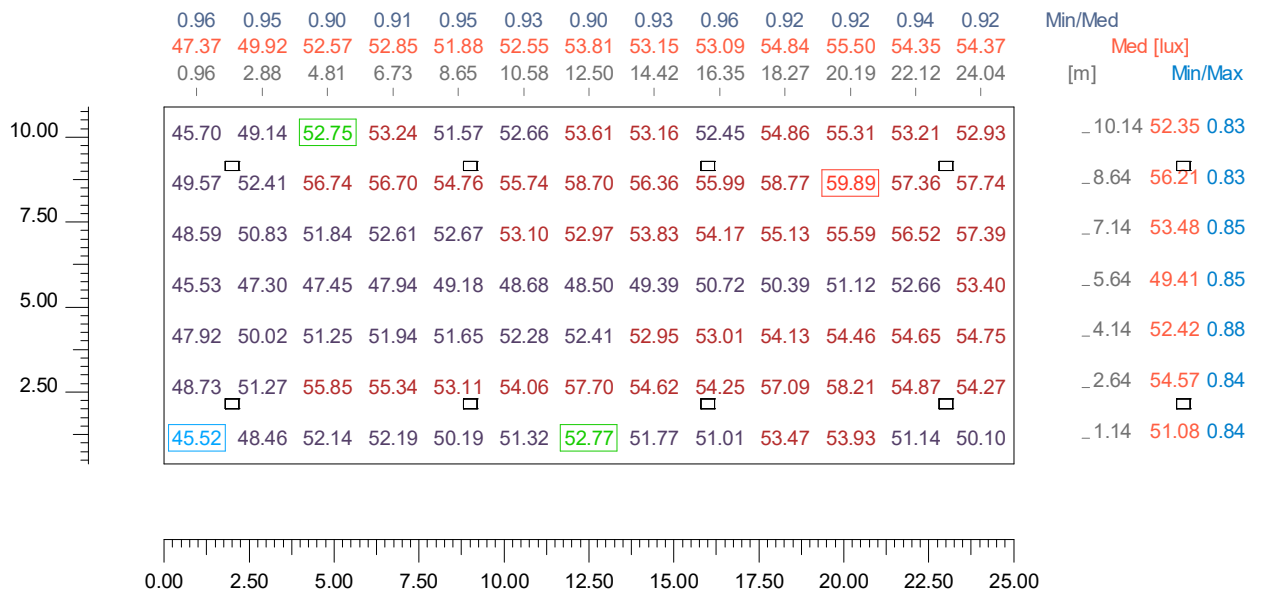


4.6 Valori di Illuminamento su: 2 - Tangenziale

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.79 lx	45.52 lx	59.89 lx	0.86	0.76	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

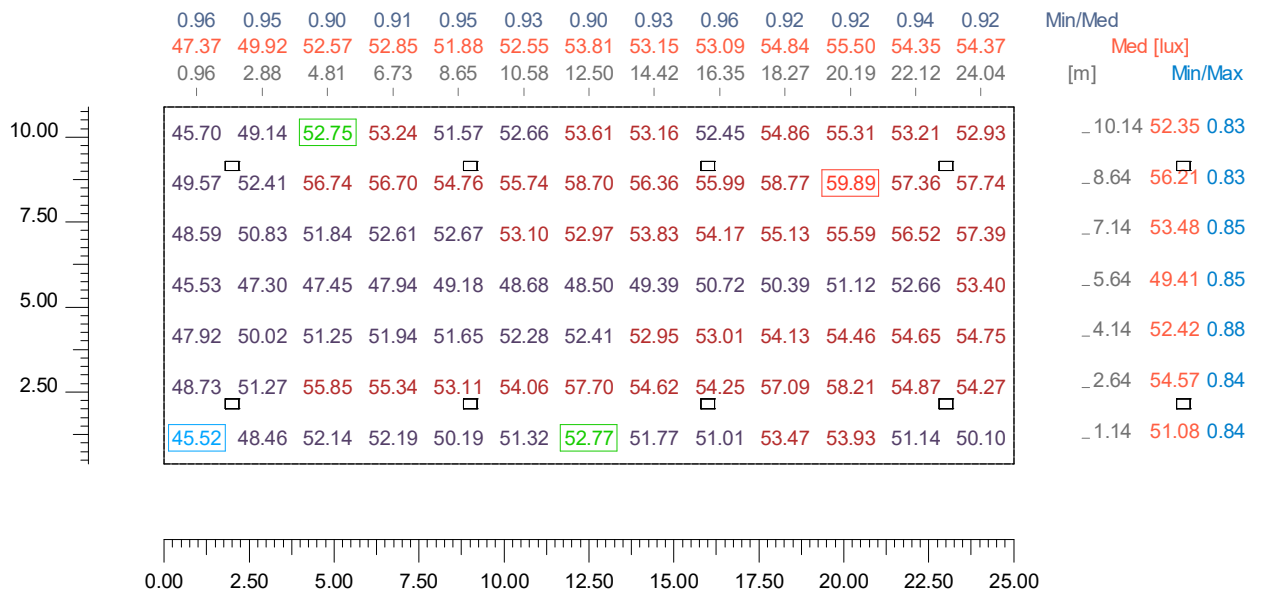


4.7 Valori di Illuminamento su: 2 - Tangenziale [Lp,c (Tangenziale, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.79 lx	45.52 lx	59.89 lx	0.86	0.76	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

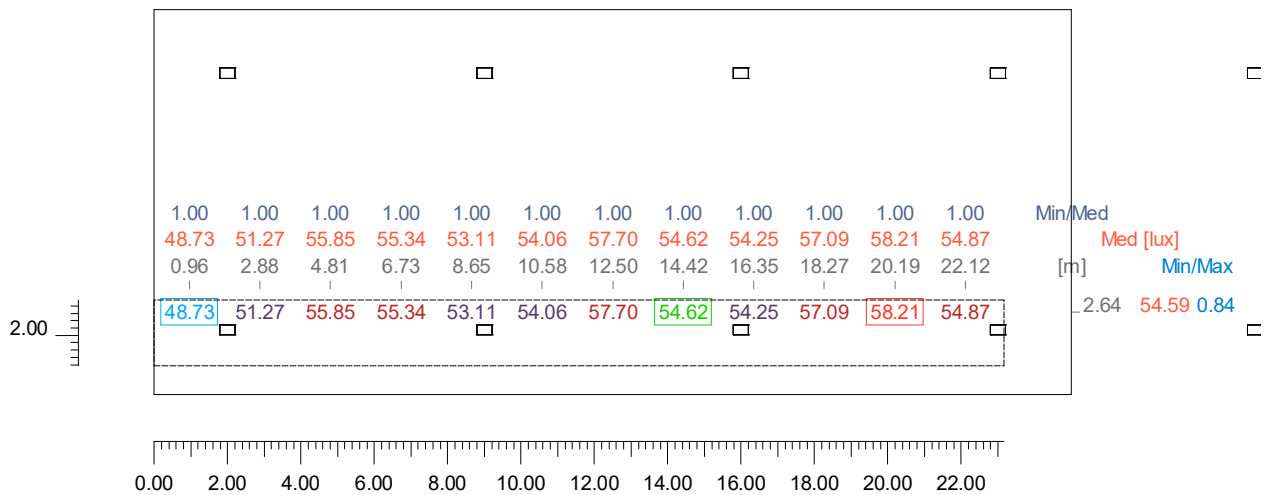


4.8 Valori di Illuminamento su: 2 - Tangenziale [U1,c1 (Tangenziale, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	54.59 lx	48.73 lx	58.21 lx	0.89	0.84	0.94

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

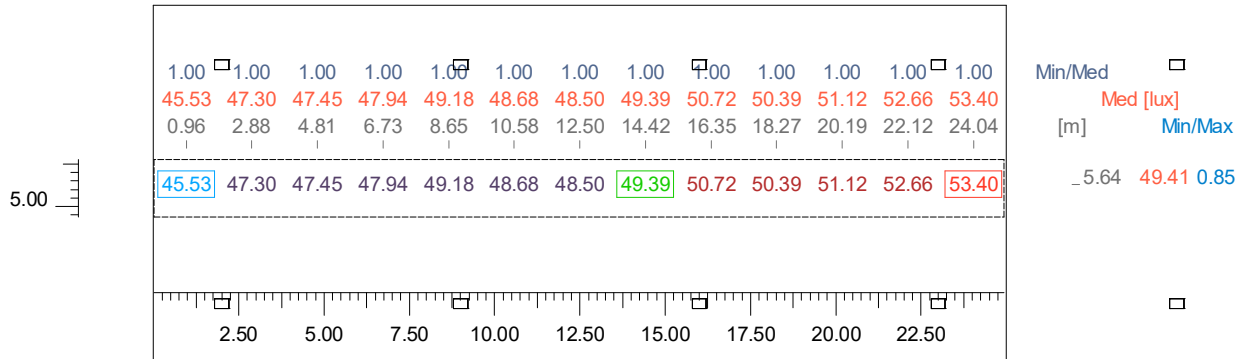


4.9 Valori di Illuminamento su: 2 - Tangenziale [U1,c2 (Tangenziale, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	49.41 lx	45.53 lx	53.40 lx	0.92	0.85	0.93

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

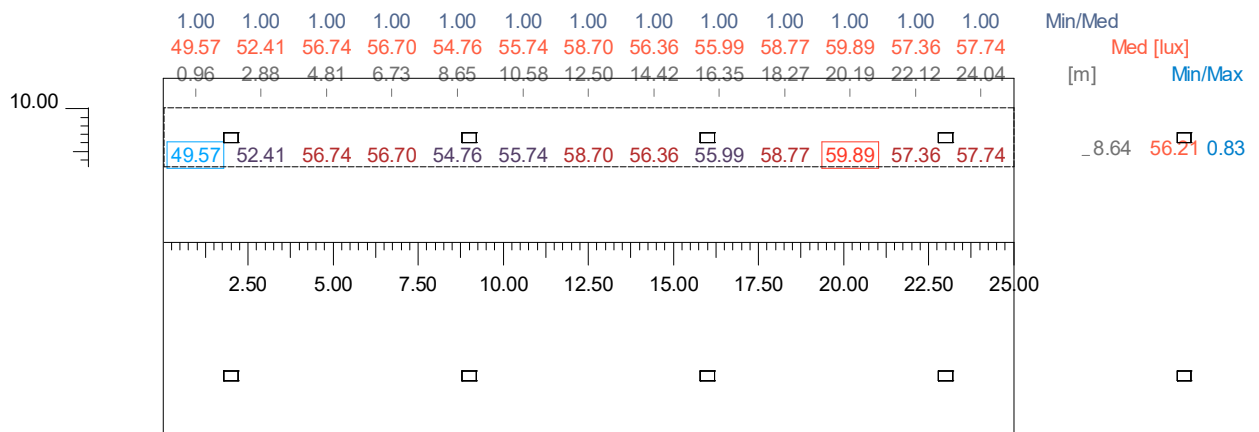


4.10 Valori di Illuminamento su: 2 - Tangenziale [UI,c3 (Tangenziale, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	56.21 lx	49.57 lx	59.89 lx	0.88	0.83	0.94

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

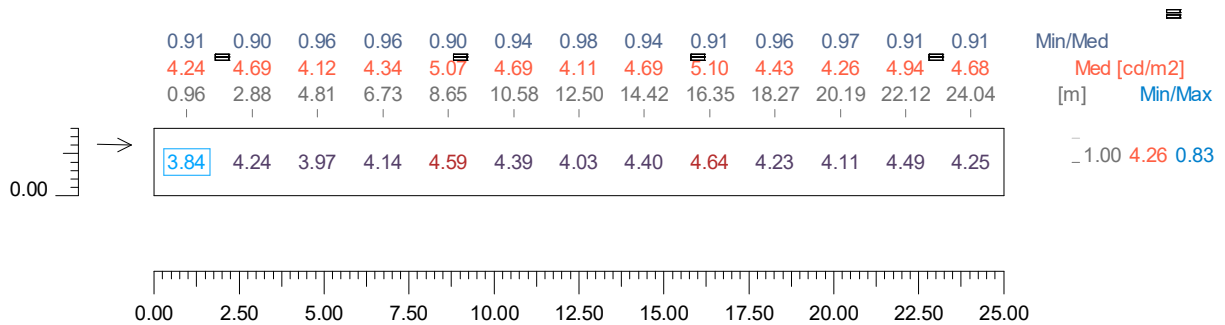


4.11 Valori delle Luminanze su: Parete Virtuale Sinistra - Oss. 1 (Lambert) [x=-60.00 y=2.14] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.56 cd/m2	3.84 cd/m2	5.56 cd/m2	0.84	0.69	0.82

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

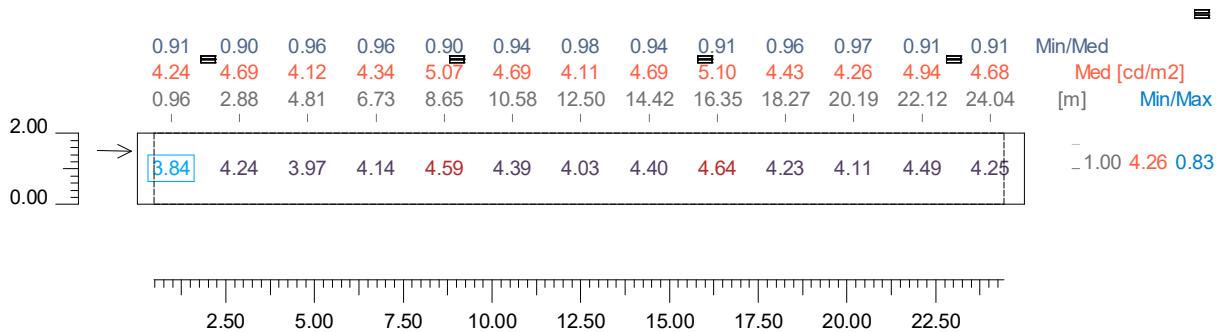


4.12 Valori delle Luminanze su: Parete Virtuale Sinistra [Lp,ps (Tangenziale, Sezione 4)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.56 cd/m ²	3.84 cd/m ²	5.56 cd/m ²	0.84	0.69	0.82

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

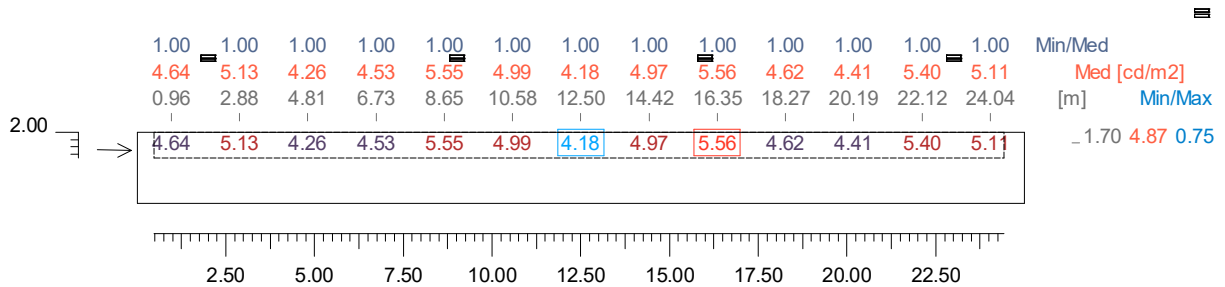


4.13 Valori delle Luminanze su: Parete Virtuale Sinistra [UI,ps (Tangenziale, Sezione 4)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.87 cd/m ²	4.18 cd/m ²	5.56 cd/m ²	0.86	0.75	0.88

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

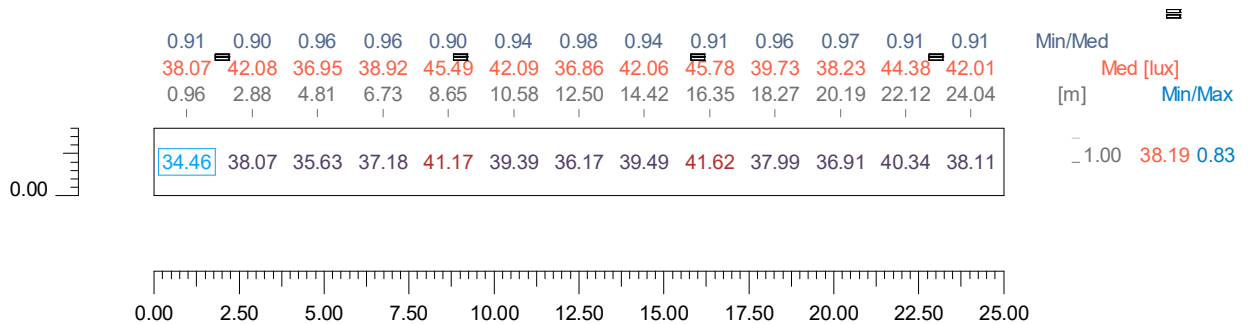


4.14 Valori di Illuminamento su: Parete Virtuale Sinistra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	40.97 lx	34.46 lx	49.94 lx	0.84	0.69	0.82

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

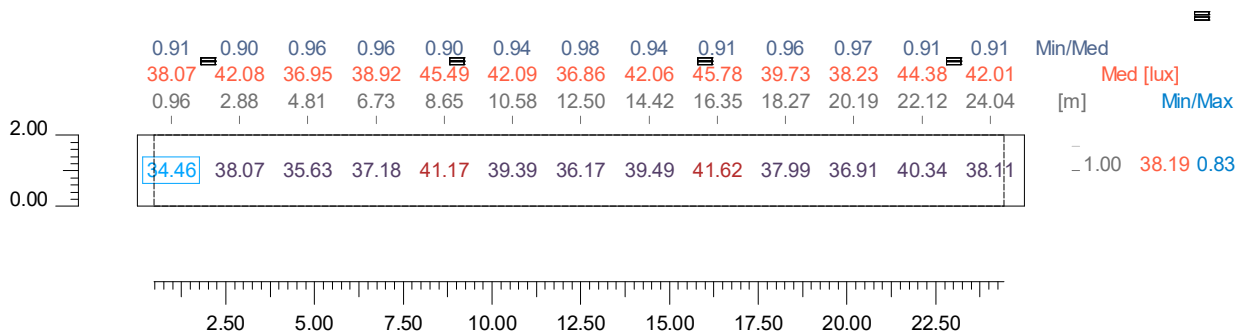


4.15 Valori di Illuminamento su: Parete Virtuale Sinistra [Lp,ps (Tangenziale, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	40.97 lx	34.46 lx	49.94 lx	0.84	0.69	0.82

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

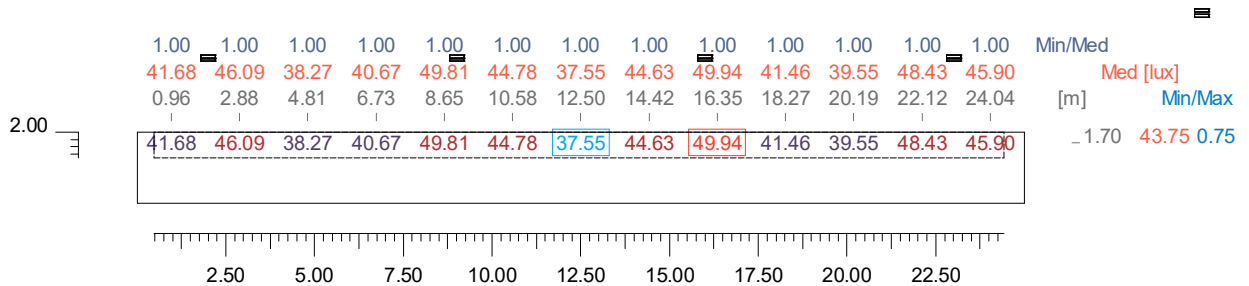


4.16 Valori di Illuminamento su: Parete Virtuale Sinistra [U,ps (Tangenziale, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	43.75 lx	37.55 lx	49.94 lx	0.86	0.75	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

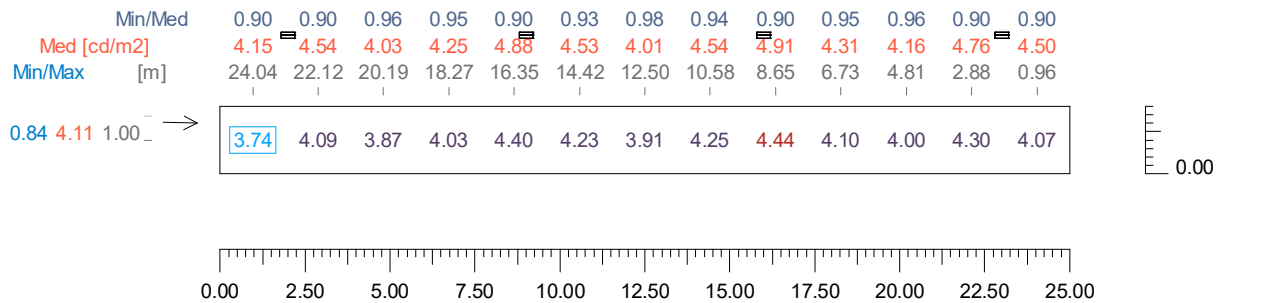


4.17 Valori delle Luminanze su: Parete Virtuale Destra - Oss. 1 (Lambert) [x=-60.00 y=2.14] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.43 cd/m2	3.74 cd/m2	5.37 cd/m2	0.85	0.70	0.82

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Iindir. (Accuratezza:2)

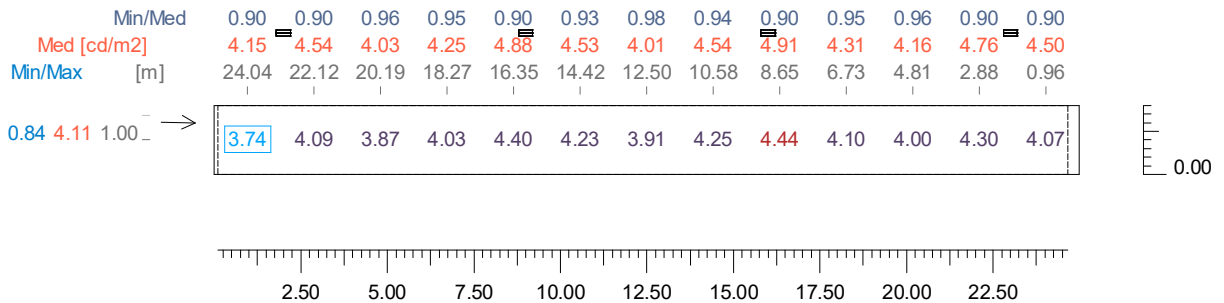


4.18 Valori delle Luminanze su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 4)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.43 cd/m ²	3.74 cd/m ²	5.37 cd/m ²	0.85	0.70	0.82

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

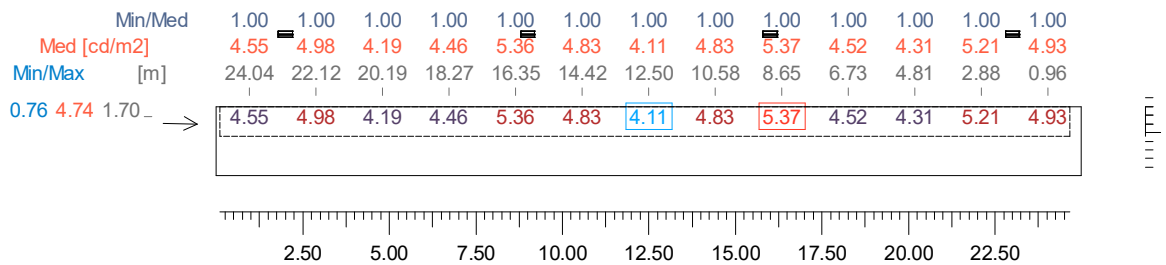


4.19 Valori delle Luminanze su: Parete Virtuale Destra [UI,pd (Tangenziale, Sezione 4)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	4.74 cd/m2	4.11 cd/m2	5.37 cd/m2	0.87	0.76	0.88

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

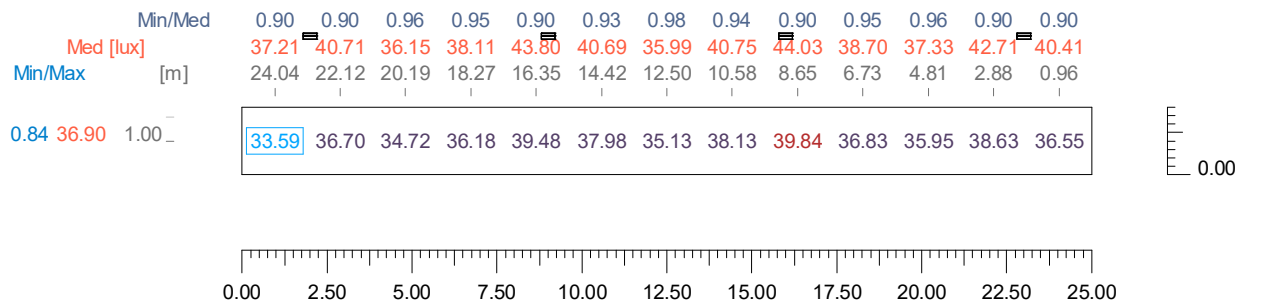


4.20 Valori di Illuminamento su: Parete Virtuale Destra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	39.74 lx	33.59 lx	48.23 lx	0.85	0.70	0.82

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

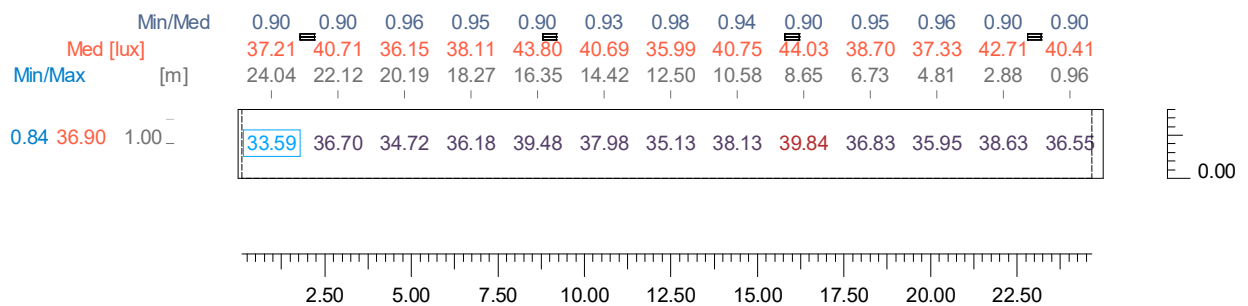


4.21 Valori di Illuminamento su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	39.74 lx	33.59 lx	48.23 lx	0.85	0.70	0.82

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

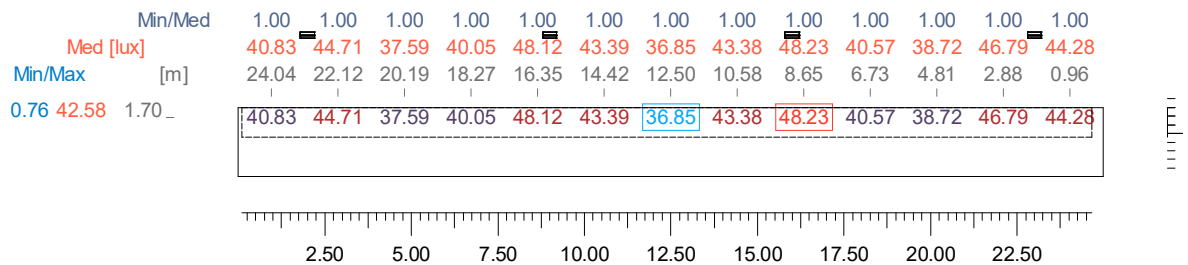


4.22 Valori di Illuminamento su: Parete Virtuale Destra [U, pd (Tangenziale, Sezione 4)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	42.58 lx	36.85 lx	48.23 lx	0.87	0.76	0.88

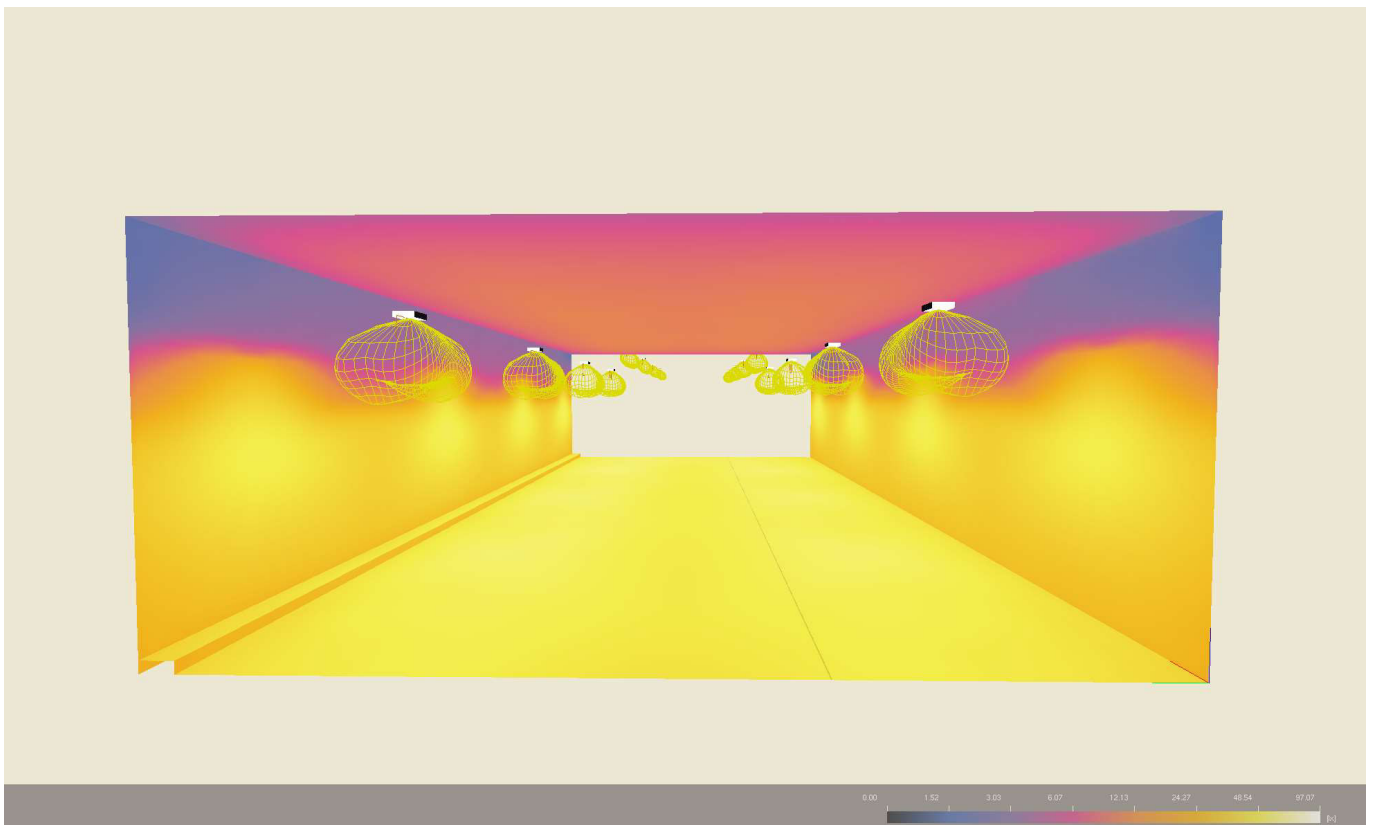
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

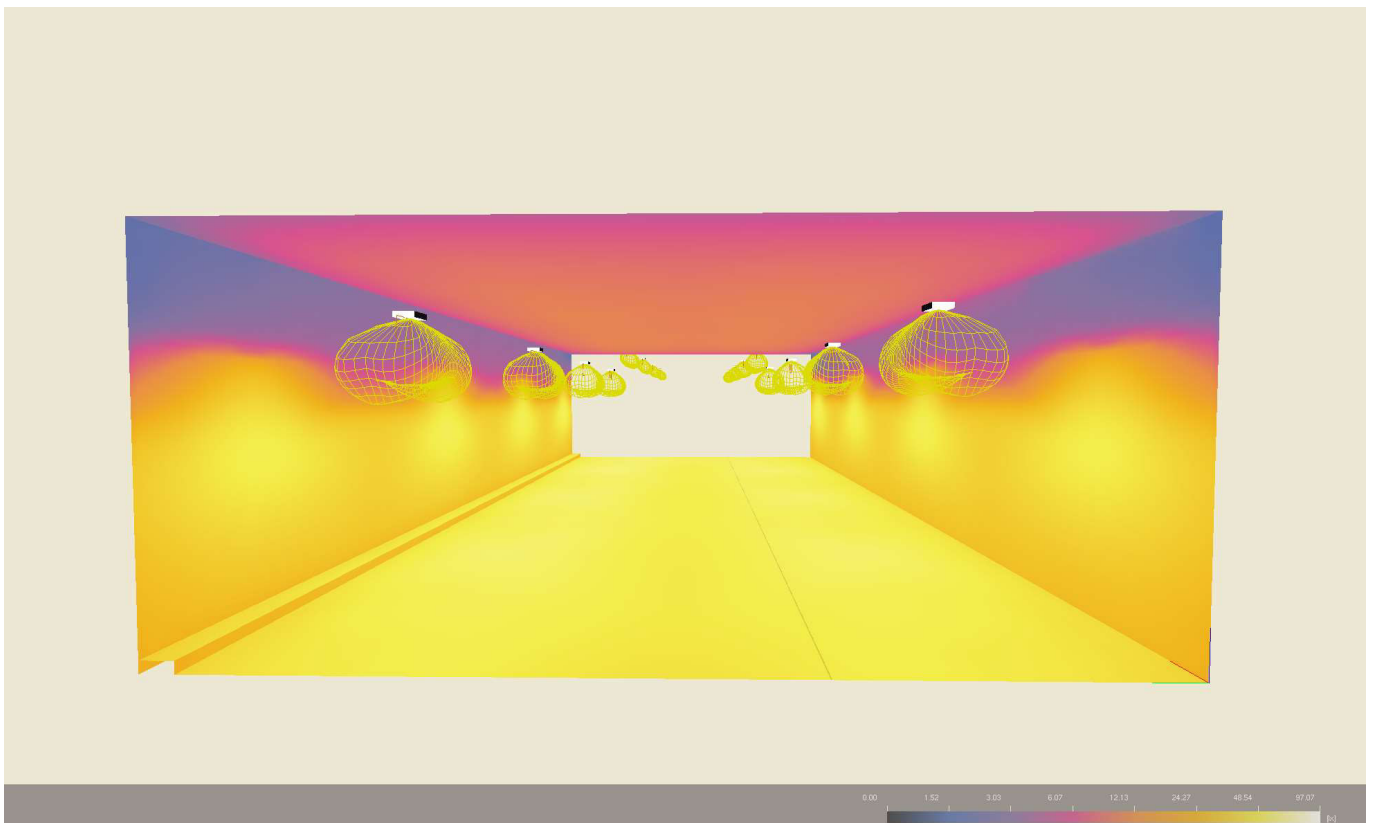


5. Immagini

5.1 Immagini



5.2 Immagini



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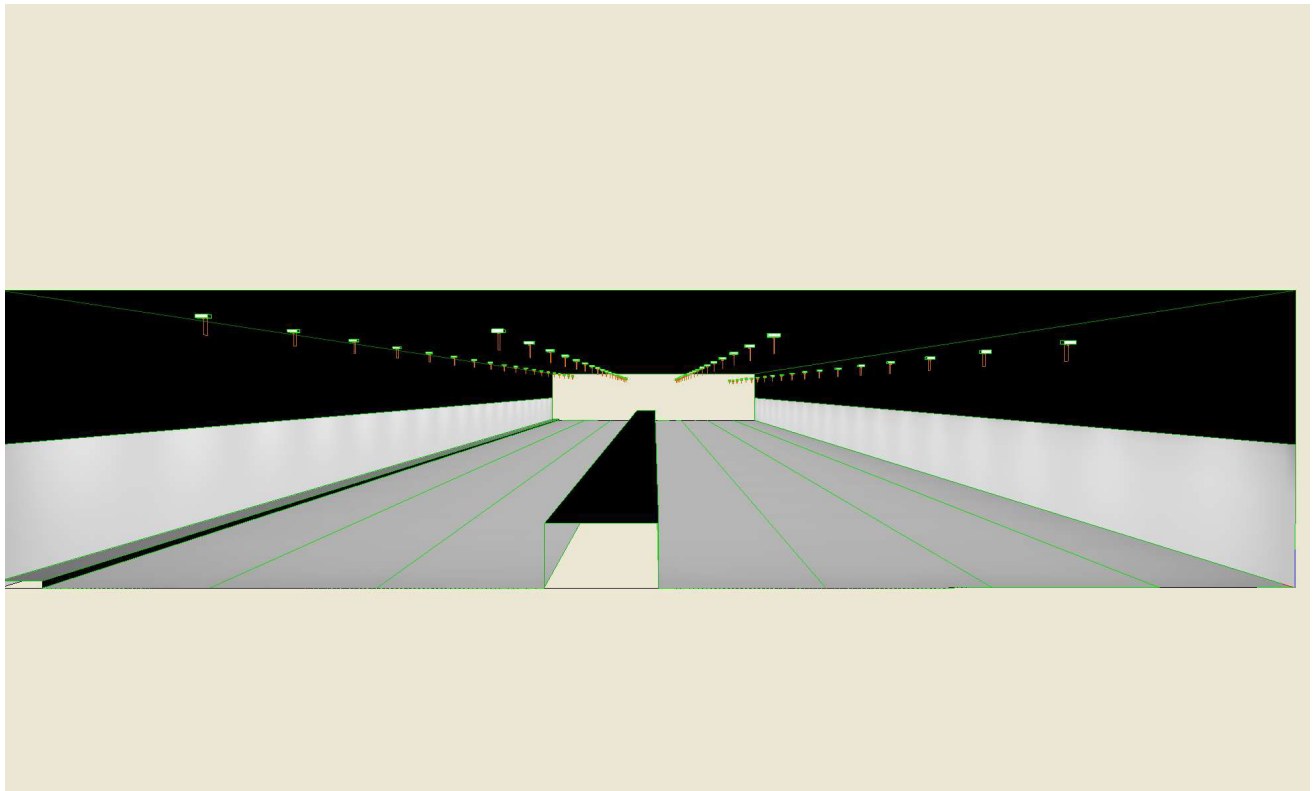
Galleria San Donnino

Note Installazione: Permanente - Autostrada + Tangenziale - Sezione 5
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 17/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria 6.23m
Fattore di manutenzione 80%
H. corpi illuminanti come da tabella sotto

Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

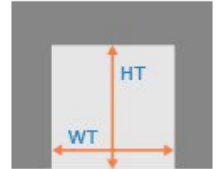
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

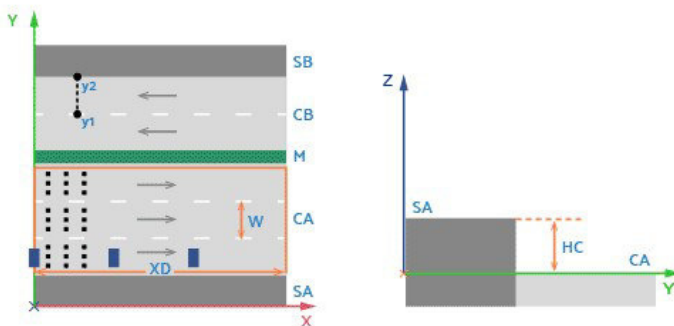
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice	Cubo (A)
Larghezza (WT)	27.15 m
Altezza (HT)	6.23 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%

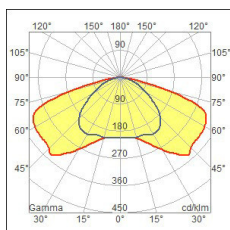


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Carreggiata	Carrabile	Corsia d'Emergenz	--->	2.84	0.00	2.84	3	3	0.00	C2	0.0560
2. Tangenziale	Carrabile			10.50	2.84	13.34	7		0.00	C2	0.0560
	2.1	Corsia 1	--->	3.50	2.84	6.34		3			
	2.2	Corsia 2	--->	3.50	6.34	9.84		3			
	2.3	Corsia 3	--->	3.50	9.84	13.34		3			
3. Mediana Centra	Secondaria	Mediana Centrale	--->	2.40	13.34	15.74	3	3	1.35		0.0000
4. Autostrada A14	Carrabile			10.50	15.74	26.24	7		0.00	C2	0.0560
	4.1	Corsia 1	--->	3.50	15.74	19.24		3			
	4.2	Corsia 2	--->	3.50	19.24	22.74		3			
	4.3	Corsia 3	--->	3.50	22.74	26.24		3			
5. Marciapiede B	Pista Ciclo/Pedona	Marciapiede	--->	0.91	26.24	27.15	3	3	0.15		0.3000

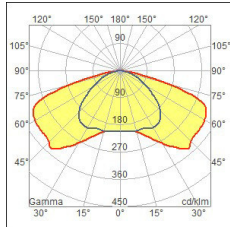


1.2 Informazioni Apparecchi/Rilievi

Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	38	Sorg-A	1



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	38	Sorg-A	1

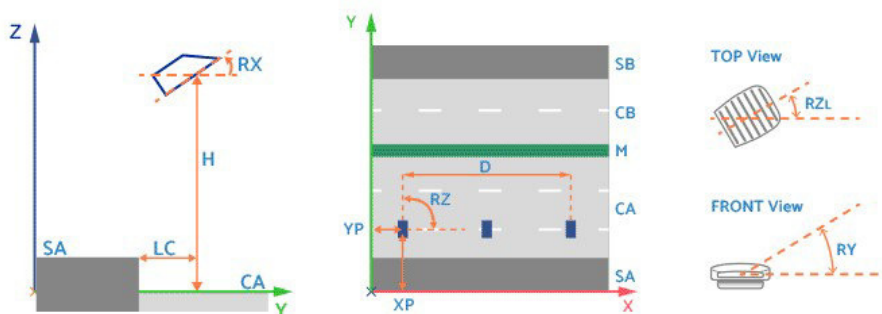


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	76

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altez.App. [m] (H)	Num. Apparecchi	Interd. [m] (D)	Incr. %	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila B	A		5.00	3.60	5.23	19	10.50	0.00	189.00	0	0	-0
Fila B	B		5.00	10.60	5.40	19	10.50	0.00	189.00	0	180	-0
Fila B	B		5.00	17.14	5.50	19	10.50	0.00	189.00	0	0	-0
Fila B	A		5.00	24.14	5.85	19	10.50	0.00	189.00	0	0	-0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Carreggiata	Risultati	LAV = 1.90 cd/m ²	Uo(L) = 0.31	Ul = 0.33	fTI = 7 %
	Oss. 1) [x=-60.00 y=1.42] m Oss.Ti [x=5.04 y=1.42] m Lv = 0.20	LAV = 1.90 cd/m ² *	Uo(L) = 0.31 *	Ul = 0.33 *	fTI = 6.51 % *
2 - Tangenziale	Risultati	LAV = 2.62 cd/m ²	Uo(L) = 0.30	Ul = 0.28	fTI = 8 %
	Oss. 1) [x=-60.00 y=4.59] m	LAV = 2.62 cd/m ² *	Uo(L) = 0.30	Ul = 0.28 *	
	Oss. 2) [x=-60.00 y=8.09] m	LAV = 2.63 cd/m ²	Uo(L) = 0.30	Ul = 0.36	
	Oss. 3) [x=-60.00 y=11.59] m	LAV = 2.64 cd/m ²	Uo(L) = 0.30 *	Ul = 0.29	
	Oss.Ti 1) [x=183.04 y=4.59] r Oss.Ti 2) [x=-6.96 y=8.09] m Oss.Ti 3) [x=-6.96 y=11.59] n Lv = 0.27				fTI = 7.44 % fTI = 6.95 % fTI = 8.00 % *
4 - Autostrada A14	Risultati	LAV = 2.49 cd/m ²	Uo(L) = 0.27	Ul = 0.26	fTI = 9 %
	Oss. 1) [x=-60.00 y=17.49] m	LAV = 2.49 cd/m ² *	Uo(L) = 0.27	Ul = 0.28	
	Oss. 2) [x=-60.00 y=20.99] m	LAV = 2.51 cd/m ²	Uo(L) = 0.27	Ul = 0.37	
	Oss. 3) [x=-60.00 y=24.49] m	LAV = 2.51 cd/m ²	Uo(L) = 0.27 *	Ul = 0.26 *	
	Oss.Ti 1) [x=-6.96 y=17.49] n Oss.Ti 2) [x=-6.96 y=20.99] n Oss.Ti 3) [x=-6.96 y=24.49] n Lv = 0.29				fTI = 9.01 % * fTI = 7.42 % fTI = 7.46 %
5 - Marciapiede B	Risultati	EAV = 34.7 lux	EMIN = 17.56 lux		

Riepilogo Uniformità di Luminari:

Sezione Permanente	[10.00..190.00] m	(Luminanza Costante)		
Parete Destra	LAV%(pd/c,o1) = 165.1 %	LAV,pd=3.24 cd/m ²	Uo,pd=0.88	Ul,pd=0.78 (y=1.70 m)
Parete Sinistra	LAV%(ps/c,o1) = 160.1 %	LAV,ps=3.14 cd/m ²	Uo,ps=0.87	Ul,ps=0.80 (y=1.70 m)
1 - Carreggiata	--->	LAV,c,o1=1.96 cd/m ²	Uo,c,o1=0.67	Ul,o1=0.82 (y=1.42 m)
2 - Tangenziale	--->	LAV,c,o1=2.71 cd/m ²	Uo,c,o3=0.72	Ul,o3=0.78 (y=11.59 m)
--->	Oss. 1) [x=-60.00 y=4.59] m	LAV,c,o1=2.71 cd/m ² *	Uo,c,o1=0.73	Ul,o1=0.79 (y=4.59 m)
--->	Oss. 2) [x=-60.00 y=8.09] m	LAV,c,o2=2.72 cd/m ²	Uo,c,o2=0.72	Ul,o2=0.83 (y=8.09 m)
--->	Oss. 3) [x=-60.00 y=11.59] m	LAV,c,o3=2.72 cd/m ²	Uo,c,o3=0.72 *	Ul,o3=0.78 (y=11.59 m)
4 - Autostrada A14	--->	LAV,c,o1=2.58 cd/m ²	Uo,c,o1=0.64	Ul,o3=0.70 (y=24.49 m)
--->	Oss. 1) [x=-60.00 y=17.49] m	LAV,c,o1=2.58 cd/m ² *	Uo,c,o1=0.64 *	Ul,o1=0.74 (y=17.49 m)
--->	Oss. 2) [x=-60.00 y=20.99] m	LAV,c,o2=2.59 cd/m ²	Uo,c,o2=0.65	Ul,o2=0.82 (y=20.99 m)
--->	Oss. 3) [x=-60.00 y=24.49] m	LAV,c,o3=2.60 cd/m ²	Uo,c,o3=0.66	Ul,o3=0.70 (y=24.49 m)
5 - Marciapiede B	LAV%(ms/c,o1) = 172.4 %	LAV,ms,o1=3.38 cd/m ²	Uo,ms,o1=0.90	Ul,o1=0.90 (y=26.70 m)

pd: Parete Destra ps: Parete Sinistra c: Carreggiata cm: Corsie di Marcia
md: Marciapiede Destro ms: Marciapiede Sinistro o: Osservatore

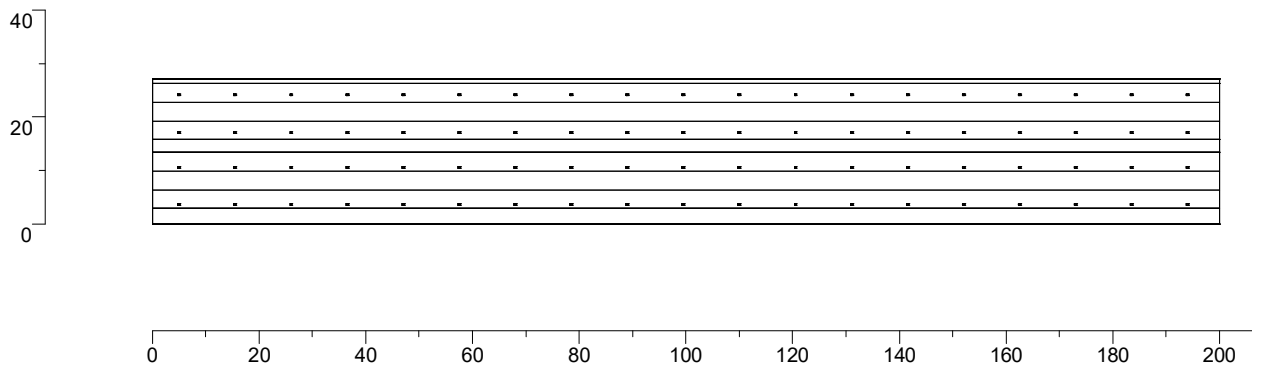
Inquinamento Luminoso

Rapporto Medio - Rn -

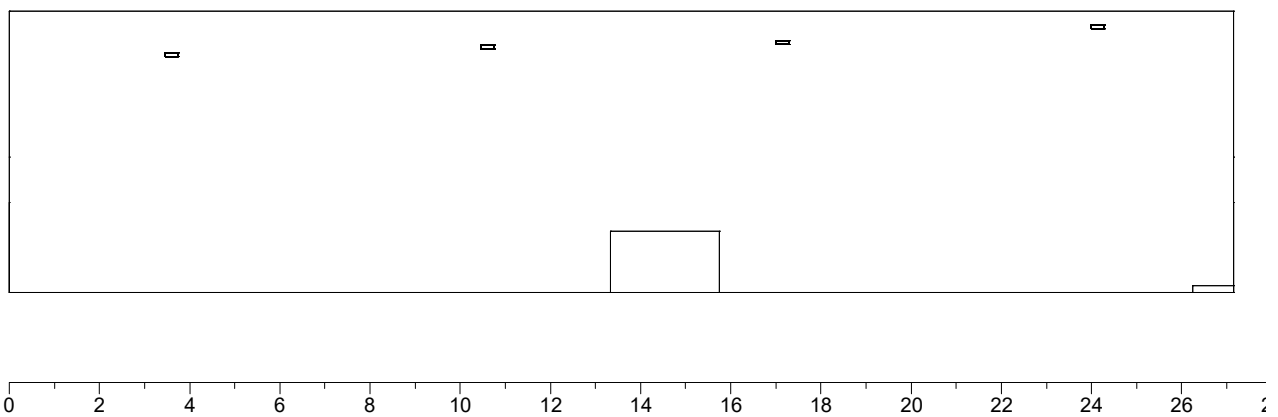
0.00 %

2. Viste Ambiente

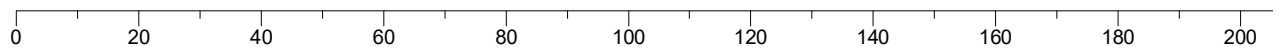
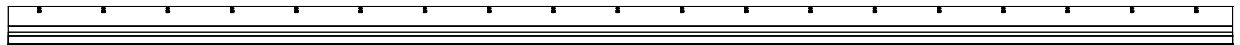
2.1 Vista 2D in Pianta



2.2 Vista Laterale

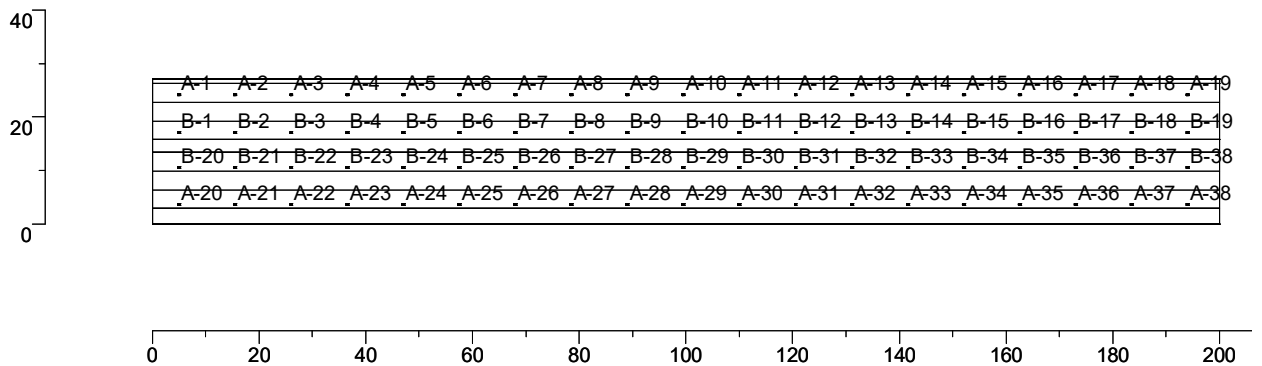


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	5.00	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-2	100 %	15.50	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-3	100 %	26.00	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-4	100 %	36.50	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-5	100 %	47.00	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-6	100 %	57.50	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-7	100 %	68.00	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-8	100 %	78.50	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-9	100 %	89.00	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-10	100 %	99.50	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-11	100 %	110.00	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-12	100 %	120.50	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-13	100 %	131.00	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-14	100 %	141.50	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-15	100 %	152.00	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-16	100 %	162.50	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-17	100 %	173.00	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-18	100 %	183.50	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-19	100 %	194.00	24.14	5.85	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-20	100 %	5.00	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-21	100 %	15.50	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-22	100 %	26.00	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-23	100 %	36.50	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-24	100 %	47.00	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-25	100 %	57.50	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-26	100 %	68.00	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-27	100 %	78.50	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-28	100 %	89.00	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-29	100 %	99.50	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-30	100 %	110.00	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-31	100 %	120.50	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-32	100 %	131.00	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-33	100 %	141.50	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-34	100 %	152.00	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-35	100 %	162.50	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-36	100 %	173.00	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-37	100 %	183.50	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
A-38	100 %	194.00	3.60	5.23	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-1	100 %	5.00	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-2	100 %	15.50	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-3	100 %	26.00	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-4	100 %	36.50	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-5	100 %	47.00	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-6	100 %	57.50	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-7	100 %	68.00	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-8	100 %	78.50	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-9	100 %	89.00	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-10	100 %	99.50	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-11	100 %	110.00	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-12	100 %	120.50	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-13	100 %	131.00	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-14	100 %	141.50	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-15	100 %	152.00	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-16	100 %	162.50	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-17	100 %	173.00	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-18	100 %	183.50	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-19	100 %	194.00	17.14	5.50	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
B-20	100 %	5.00	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-21	100 %	15.50	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-22	100 %	26.00	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-23	100 %	36.50	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-24	100 %	47.00	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-25	100 %	57.50	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-26	100 %	68.00	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-27	100 %	78.50	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-28	100 %	89.00	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-29	100 %	99.50	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
B-30	100 %	110.00	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-31	100 %	120.50	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-32	100 %	131.00	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-33	100 %	141.50	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-34	100 %	152.00	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-35	100 %	162.50	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-36	100 %	173.00	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-37	100 %	183.50	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W
B-38	100 %	194.00	10.60	5.40	0.0	-0.0	180.0	Radiant 8S 16D700_W244S	16D700 35W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8S 16D700_W244S	100 %	5.00	24.14	5.85	0.0	-0.0	0.0	5.00	24.14	0.00	0.0
A-2		Radiant 8S 16D700_W244S	100 %	15.50	24.14	5.85	0.0	-0.0	0.0	15.50	24.14	0.00	0.0
A-3		Radiant 8S 16D700_W244S	100 %	26.00	24.14	5.85	0.0	-0.0	0.0	26.00	24.14	0.00	0.0
A-4		Radiant 8S 16D700_W244S	100 %	36.50	24.14	5.85	0.0	-0.0	0.0	36.50	24.14	0.00	0.0
A-5		Radiant 8S 16D700_W244S	100 %	47.00	24.14	5.85	0.0	-0.0	0.0	47.00	24.14	0.00	0.0
A-6		Radiant 8S 16D700_W244S	100 %	57.50	24.14	5.85	0.0	-0.0	0.0	57.50	24.14	0.00	0.0
A-7		Radiant 8S 16D700_W244S	100 %	68.00	24.14	5.85	0.0	-0.0	0.0	68.00	24.14	0.00	0.0
A-8		Radiant 8S 16D700_W244S	100 %	78.50	24.14	5.85	0.0	-0.0	0.0	78.50	24.14	0.00	0.0
A-9		Radiant 8S 16D700_W244S	100 %	89.00	24.14	5.85	0.0	-0.0	0.0	89.00	24.14	0.00	0.0
A-10		Radiant 8S 16D700_W244S	100 %	99.50	24.14	5.85	0.0	-0.0	0.0	99.50	24.14	0.00	0.0
A-11		Radiant 8S 16D700_W244S	100 %	110.00	24.14	5.85	0.0	-0.0	0.0	110.00	24.14	0.00	0.0
A-12		Radiant 8S 16D700_W244S	100 %	120.50	24.14	5.85	0.0	-0.0	0.0	120.50	24.14	0.00	0.0
A-13		Radiant 8S 16D700_W244S	100 %	131.00	24.14	5.85	0.0	-0.0	0.0	131.00	24.14	0.00	0.0
A-14		Radiant 8S 16D700_W244S	100 %	141.50	24.14	5.85	0.0	-0.0	0.0	141.50	24.14	0.00	0.0
A-15		Radiant 8S 16D700_W244S	100 %	152.00	24.14	5.85	0.0	-0.0	0.0	152.00	24.14	0.00	0.0
A-16		Radiant 8S 16D700_W244S	100 %	162.50	24.14	5.85	0.0	-0.0	0.0	162.50	24.14	0.00	0.0
A-17		Radiant 8S 16D700_W244S	100 %	173.00	24.14	5.85	0.0	-0.0	0.0	173.00	24.14	0.00	0.0
A-18		Radiant 8S 16D700_W244S	100 %	183.50	24.14	5.85	0.0	-0.0	0.0	183.50	24.14	0.00	0.0
A-19		Radiant 8S 16D700_W244S	100 %	194.00	24.14	5.85	0.0	-0.0	0.0	194.00	24.14	0.00	0.0
A-20		Radiant 8S 16D700_W244S	100 %	5.00	3.60	5.23	0.0	-0.0	0.0	5.00	3.60	-0.00	0.0
A-21		Radiant 8S 16D700_W244S	100 %	15.50	3.60	5.23	0.0	-0.0	0.0	15.50	3.60	-0.00	0.0
A-22		Radiant 8S 16D700_W244S	100 %	26.00	3.60	5.23	0.0	-0.0	0.0	26.00	3.60	-0.00	0.0
A-23		Radiant 8S 16D700_W244S	100 %	36.50	3.60	5.23	0.0	-0.0	0.0	36.50	3.60	-0.00	0.0
A-24		Radiant 8S 16D700_W244S	100 %	47.00	3.60	5.23	0.0	-0.0	0.0	47.00	3.60	-0.00	0.0
A-25		Radiant 8S 16D700_W244S	100 %	57.50	3.60	5.23	0.0	-0.0	0.0	57.50	3.60	-0.00	0.0
A-26		Radiant 8S 16D700_W244S	100 %	68.00	3.60	5.23	0.0	-0.0	0.0	68.00	3.60	-0.00	0.0
A-27		Radiant 8S 16D700_W244S	100 %	78.50	3.60	5.23	0.0	-0.0	0.0	78.50	3.60	-0.00	0.0
A-28		Radiant 8S 16D700_W244S	100 %	89.00	3.60	5.23	0.0	-0.0	0.0	89.00	3.60	-0.00	0.0
A-29		Radiant 8S 16D700_W244S	100 %	99.50	3.60	5.23	0.0	-0.0	0.0	99.50	3.60	-0.00	0.0
A-30		Radiant 8S 16D700_W244S	100 %	110.00	3.60	5.23	0.0	-0.0	0.0	110.00	3.60	-0.00	0.0
A-31		Radiant 8S 16D700_W244S	100 %	120.50	3.60	5.23	0.0	-0.0	0.0	120.50	3.60	-0.00	0.0
A-32		Radiant 8S 16D700_W244S	100 %	131.00	3.60	5.23	0.0	-0.0	0.0	131.00	3.60	-0.00	0.0
A-33		Radiant 8S 16D700_W244S	100 %	141.50	3.60	5.23	0.0	-0.0	0.0	141.50	3.60	-0.00	0.0
A-34		Radiant 8S 16D700_W244S	100 %	152.00	3.60	5.23	0.0	-0.0	0.0	152.00	3.60	-0.00	0.0
A-35		Radiant 8S 16D700_W244S	100 %	162.50	3.60	5.23	0.0	-0.0	0.0	162.50	3.60	-0.00	0.0
A-36		Radiant 8S 16D700_W244S	100 %	173.00	3.60	5.23	0.0	-0.0	0.0	173.00	3.60	-0.00	0.0
A-37		Radiant 8S 16D700_W244S	100 %	183.50	3.60	5.23	0.0	-0.0	0.0	183.50	3.60	-0.00	0.0
A-38		Radiant 8S 16D700_W244S	100 %	194.00	3.60	5.23	0.0	-0.0	0.0	194.00	3.60	-0.00	0.0
B-1		Radiant 8S 16D700_W244S	100 %	5.00	17.14	5.50	0.0	-0.0	0.0	5.00	17.14	0.00	0.0
B-2		Radiant 8S 16D700_W244S	100 %	15.50	17.14	5.50	0.0	-0.0	0.0	15.50	17.14	0.00	0.0
B-3		Radiant 8S 16D700_W244S	100 %	26.00	17.14	5.50	0.0	-0.0	0.0	26.00	17.14	0.00	0.0
B-4		Radiant 8S 16D700_W244S	100 %	36.50	17.14	5.50	0.0	-0.0	0.0	36.50	17.14	0.00	0.0
B-5		Radiant 8S 16D700_W244S	100 %	47.00	17.14	5.50	0.0	-0.0	0.0	47.00	17.14	0.00	0.0
B-6		Radiant 8S 16D700_W244S	100 %	57.50	17.14	5.50	0.0	-0.0	0.0	57.50	17.14	0.00	0.0
B-7		Radiant 8S 16D700_W244S	100 %	68.00	17.14	5.50	0.0	-0.0	0.0	68.00	17.14	0.00	0.0
B-8		Radiant 8S 16D700_W244S	100 %	78.50	17.14	5.50	0.0	-0.0	0.0	78.50	17.14	0.00	0.0
B-9		Radiant 8S 16D700_W244S	100 %	89.00	17.14	5.50	0.0	-0.0	0.0	89.00	17.14	0.00	0.0
B-10		Radiant 8S 16D700_W244S	100 %	99.50	17.14	5.50	0.0	-0.0	0.0	99.50	17.14	0.00	0.0
B-11		Radiant 8S 16D700_W244S	100 %	110.00	17.14	5.50	0.0	-0.0	0.0	110.00	17.14	0.00	0.0
B-12		Radiant 8S 16D700_W244S	100 %	120.50	17.14	5.50	0.0	-0.0	0.0	120.50	17.14	0.00	0.0
B-13		Radiant 8S 16D700_W244S	100 %	131.00	17.14	5.50	0.0	-0.0	0.0	131.00	17.14	0.00	0.0
B-14		Radiant 8S 16D700_W244S	100 %	141.50	17.14	5.50	0.0	-0.0	0.0	141.50	17.14	0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi x[m] y[m] z[m]	Rotazione Apparecchi rx[°] ry[°] rz[°]	Puntamenti x[m] y[m] z[m]	R.Asse [°]
	B-15	Radiant 8S 16D700_W244S	100 %	152.00 17.14 5.50	0.0 -0.0 0.0	152.00 17.14 0.00	0.0
	B-16	Radiant 8S 16D700_W244S	100 %	162.50 17.14 5.50	0.0 -0.0 0.0	162.50 17.14 0.00	0.0
	B-17	Radiant 8S 16D700_W244S	100 %	173.00 17.14 5.50	0.0 -0.0 0.0	173.00 17.14 0.00	0.0
	B-18	Radiant 8S 16D700_W244S	100 %	183.50 17.14 5.50	0.0 -0.0 0.0	183.50 17.14 0.00	0.0
	B-19	Radiant 8S 16D700_W244S	100 %	194.00 17.14 5.50	0.0 -0.0 0.0	194.00 17.14 0.00	0.0
	B-20	Radiant 8S 16D700_W244S	100 %	5.00 10.60 5.40	0.0 -0.0 180.0	5.00 10.60 -0.00	0.0
	B-21	Radiant 8S 16D700_W244S	100 %	15.50 10.60 5.40	0.0 -0.0 180.0	15.50 10.60 -0.00	0.0
	B-22	Radiant 8S 16D700_W244S	100 %	26.00 10.60 5.40	0.0 -0.0 180.0	26.00 10.60 -0.00	0.0
	B-23	Radiant 8S 16D700_W244S	100 %	36.50 10.60 5.40	0.0 -0.0 180.0	36.50 10.60 -0.00	0.0
	B-24	Radiant 8S 16D700_W244S	100 %	47.00 10.60 5.40	0.0 -0.0 180.0	47.00 10.60 -0.00	0.0
	B-25	Radiant 8S 16D700_W244S	100 %	57.50 10.60 5.40	0.0 -0.0 180.0	57.50 10.60 -0.00	0.0
	B-26	Radiant 8S 16D700_W244S	100 %	68.00 10.60 5.40	0.0 -0.0 180.0	68.00 10.60 -0.00	0.0
	B-27	Radiant 8S 16D700_W244S	100 %	78.50 10.60 5.40	0.0 -0.0 180.0	78.50 10.60 -0.00	0.0
	B-28	Radiant 8S 16D700_W244S	100 %	89.00 10.60 5.40	0.0 -0.0 180.0	89.00 10.60 -0.00	0.0
	B-29	Radiant 8S 16D700_W244S	100 %	99.50 10.60 5.40	0.0 -0.0 180.0	99.50 10.60 -0.00	0.0
	B-30	Radiant 8S 16D700_W244S	100 %	110.00 10.60 5.40	0.0 -0.0 180.0	110.00 10.60 -0.00	0.0
	B-31	Radiant 8S 16D700_W244S	100 %	120.50 10.60 5.40	0.0 -0.0 180.0	120.50 10.60 -0.00	0.0
	B-32	Radiant 8S 16D700_W244S	100 %	131.00 10.60 5.40	0.0 -0.0 180.0	131.00 10.60 -0.00	0.0
	B-33	Radiant 8S 16D700_W244S	100 %	141.50 10.60 5.40	0.0 -0.0 180.0	141.50 10.60 -0.00	0.0
	B-34	Radiant 8S 16D700_W244S	100 %	152.00 10.60 5.40	0.0 -0.0 180.0	152.00 10.60 -0.00	0.0
	B-35	Radiant 8S 16D700_W244S	100 %	162.50 10.60 5.40	0.0 -0.0 180.0	162.50 10.60 -0.00	0.0
	B-36	Radiant 8S 16D700_W244S	100 %	173.00 10.60 5.40	0.0 -0.0 180.0	173.00 10.60 -0.00	0.0
	B-37	Radiant 8S 16D700_W244S	100 %	183.50 10.60 5.40	0.0 -0.0 180.0	183.50 10.60 -0.00	0.0
	B-38	Radiant 8S 16D700_W244S	100 %	194.00 10.60 5.40	0.0 -0.0 180.0	194.00 10.60 -0.00	0.0

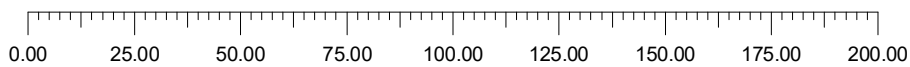
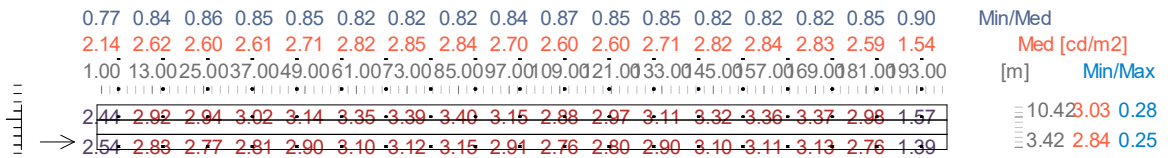
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 2 - Tangenziale - Oss. 1 [x=-60.00 y=4.59] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.62 cd/m2	0.79 cd/m2	3.44 cd/m2	0.30	0.23	0.76

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

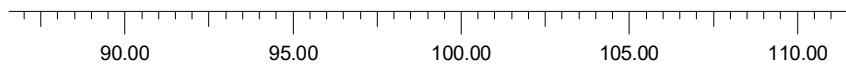
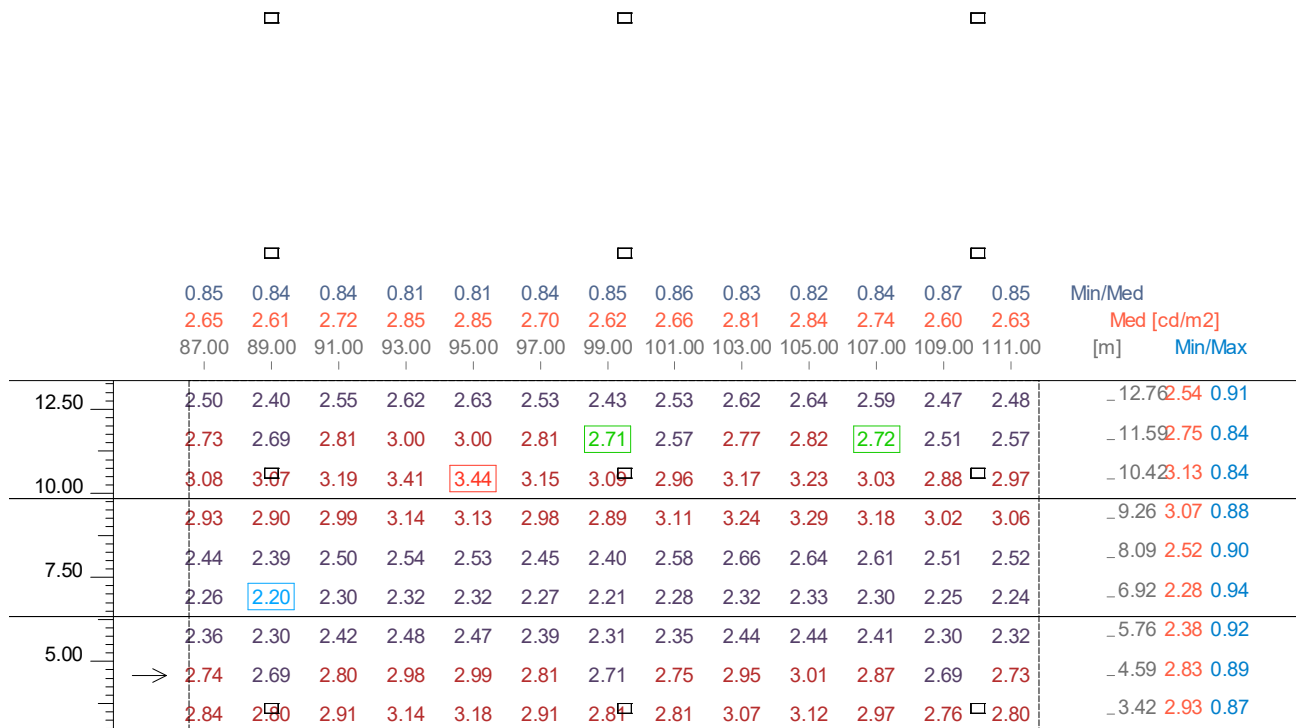


4.2 Valori delle Luminanze su: 2 - Tangenziale [Lp,c (Tangenziale, Sezione 5)] - Oss. 1 [x=-60.00 y=4.59

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.71 cd/m2	2.20 cd/m2	3.44 cd/m2	0.81	0.64	0.79

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

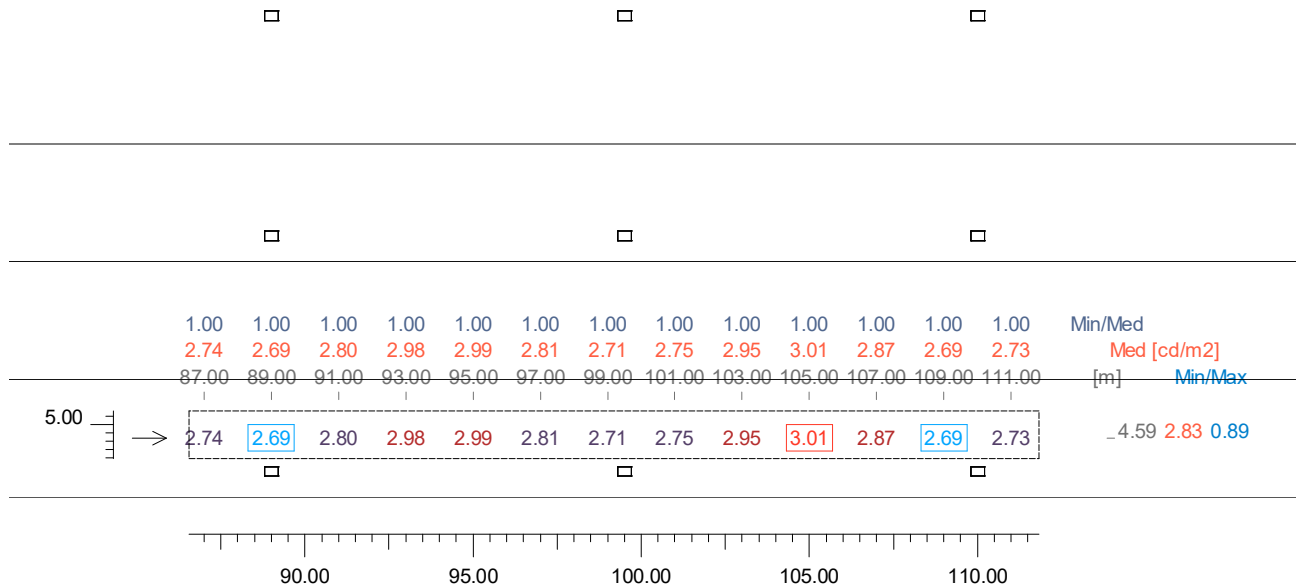


4.3 Valori delle Luminanze su: 2 - Tangenziale [UI,c1 (Tangenziale, Sezione 5)] - Oss. 1 [x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.83 cd/m2	2.69 cd/m2	3.01 cd/m2	0.95	0.89	0.94

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

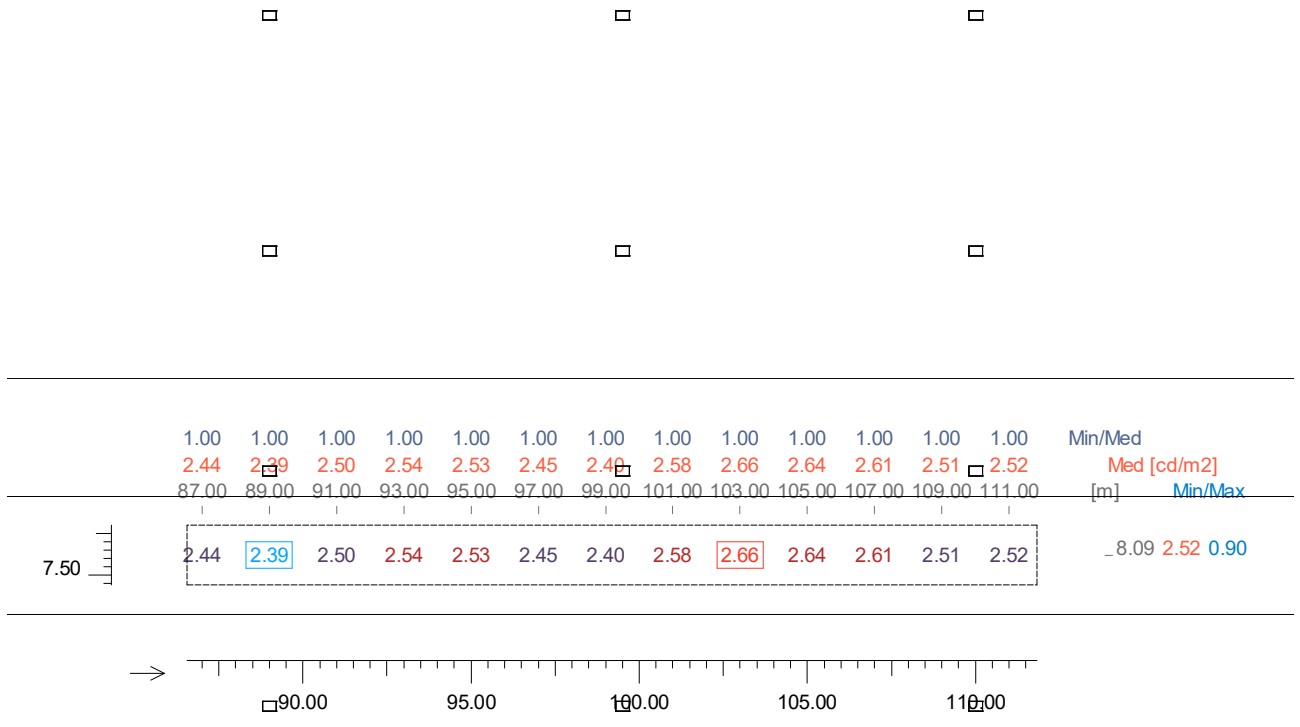


4.4 Valori delle Luminanze su: 2 - Tangenziale [UI,c2 (Tangenziale, Sezione 5)] - Oss. 1 [x=-60.00 y=4.59 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.52 cd/m2	2.39 cd/m2	2.66 cd/m2	0.95	0.90	0.95

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

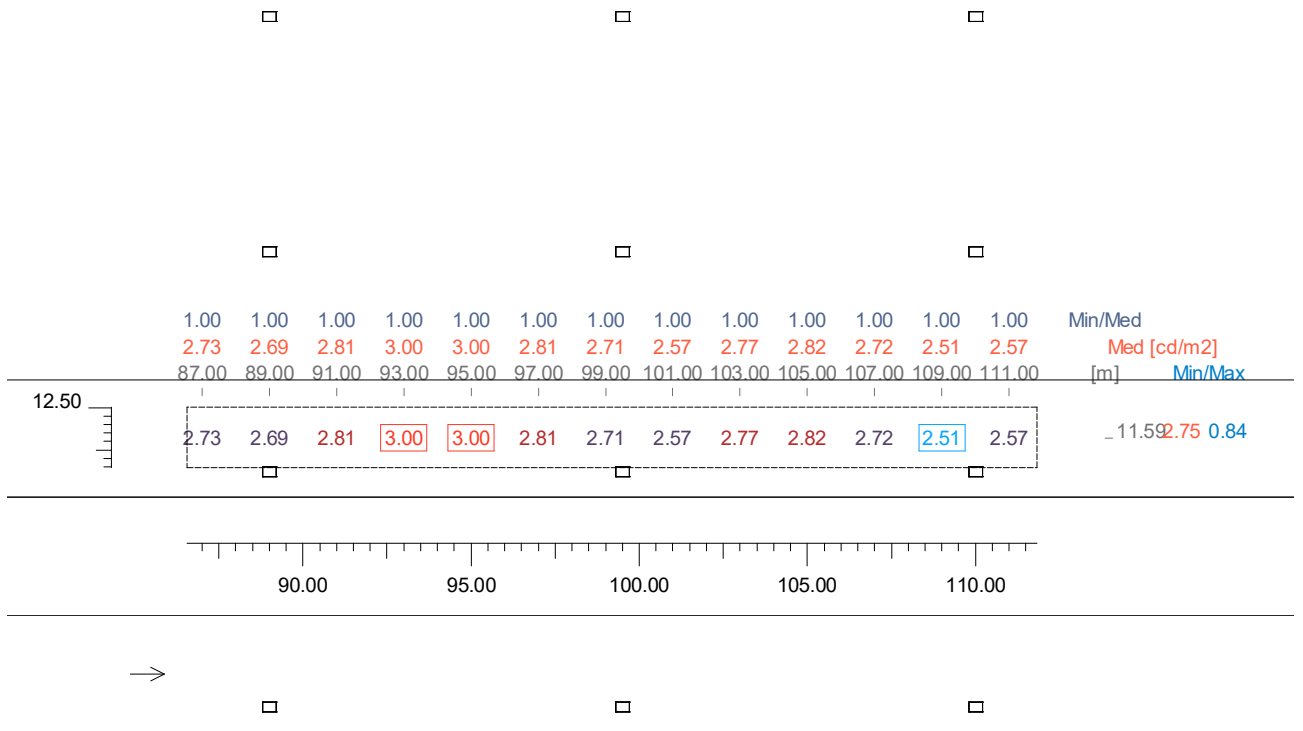


4.5 Valori delle Luminanze su: 2 - Tangenziale [UI,c3 (Tangenziale, Sezione 5)] - Oss. 1 [x=-60.00 y=4.59 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.75 cd/m2	2.51 cd/m2	3.00 cd/m2	0.92	0.84	0.92

Osservatore
Tipo Calcolo

[x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

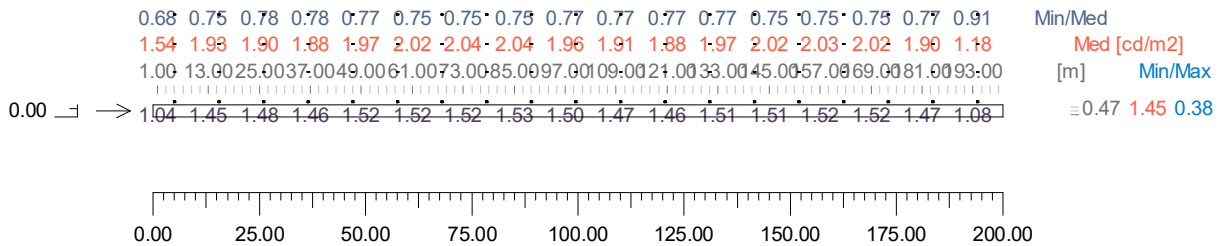


4.6 Valori delle Luminanze su: 1 - Carreggiata - Oss. 1 [x=-60.00 y=1.42] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	1.90 cd/m ²	0.59 cd/m ²	2.67 cd/m ²	0.31	0.22	0.71

Osservatore
Tipo Calcolo

[x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

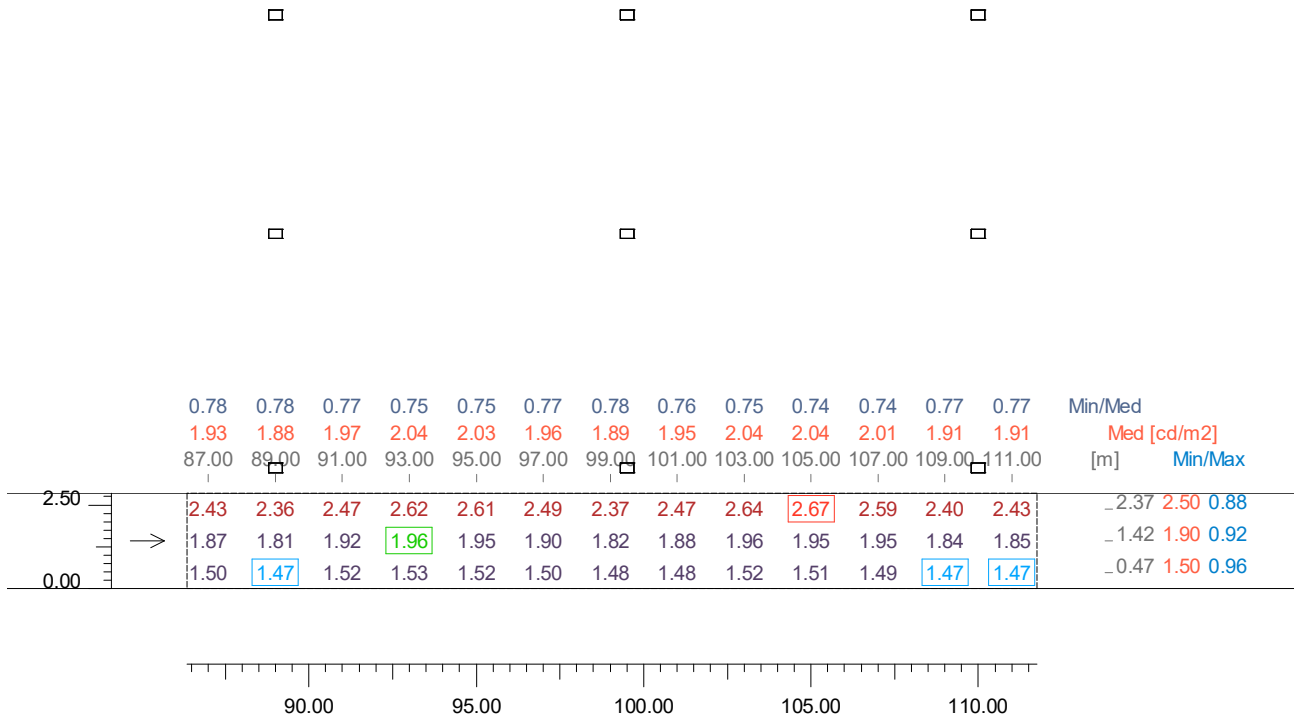


4.7 Valori delle Luminanze su: 1 - Carreggiata [Lp,cEM (Tangenziale, Sezione 5)] - Oss. 1 [x=-60.00 y=1

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	1.97 cd/m2	1.47 cd/m2	2.67 cd/m2	0.75	0.55	0.74

Osservatore
Tipo Calcolo

[x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

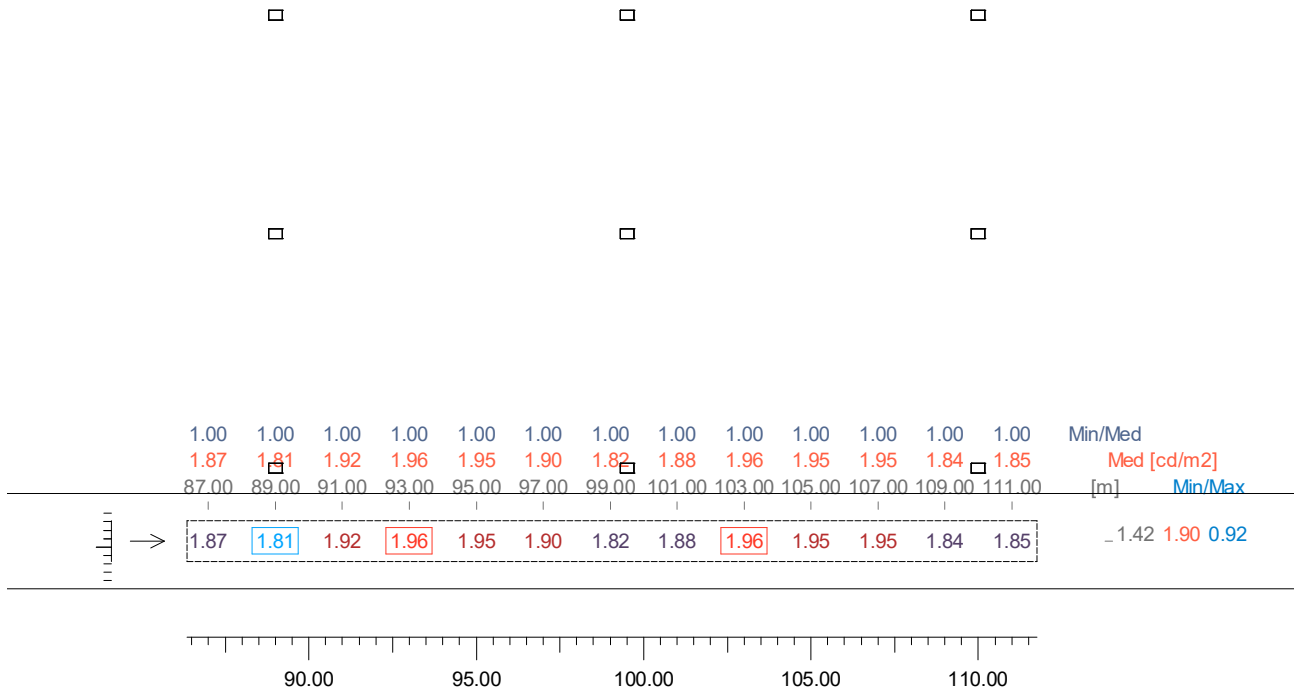


4.8 Valori delle Luminanze su: 1 - Carreggiata [UI,cEM (Tangenziale, Sezione 5)] - Oss. 1 [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	1.90 cd/m2	1.81 cd/m2	1.96 cd/m2	0.95	0.92	0.97

Osservatore
Tipo Calcolo

[x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

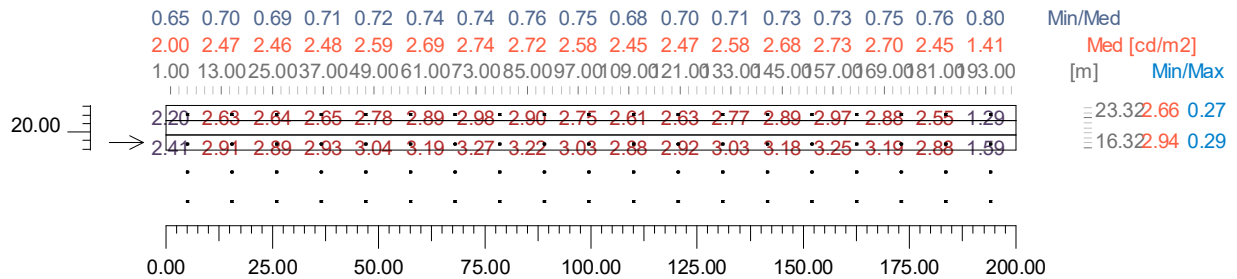


4.9 Valori delle Luminanze su: 4 - Autostrada A14 - Oss. 1 [x=-60.00 y=17.49] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.49 cd/m2	0.67 cd/m2	3.45 cd/m2	0.27	0.19	0.72

Osservatore
Tipo Calcolo

[x=-60.00 y=17.49 z=1.50] m => [x=30.00 y=17.49 z=0.00] m
Dir.+Indir. (Accuratezza:2)



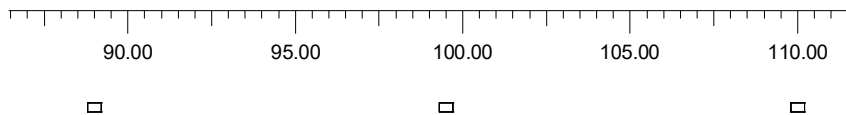
4.10 Valori delle Luminanze su: 4 - Autostrada A14 [Lp,c (Autostrada, Sezione 5)] - Oss. 1 [x=-60.00 y=17.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.58 cd/m ²	1.66 cd/m ²	3.45 cd/m ²	0.64	0.48	0.75

Osservatore
Tipo Calcolo

[x=-60.00 y=17.49 z=1.50] m => [x=30.00 y=17.49 z=0.00] m
Dir.+Indir. (Accuratezza:2)

	0.75	0.74	0.75	0.75	0.76	0.75	0.75	0.67	0.68	0.68	0.69	0.68	0.69	Min/Med
	2.54	2.49	2.61	2.72	2.74	2.58	2.49	2.51	2.66	2.71	2.59	2.45	2.49	Med [cd/m ²]
	87.00	89.00	91.00	93.00	95.00	97.00	99.00	101.00	103.00	105.00	107.00	109.00	111.00	[m] Min/Max
25.00	1.89	1.86	1.95	2.05	2.07	1.95	1.86	1.69	1.81	1.85	1.80	1.66	1.72	25.66 1.86 0.80
	2.38	2.35	2.49	2.63	2.68	2.44	2.35	2.14	2.35	2.46	2.25	2.09	2.17	24.49 2.37 0.78
	2.70	2.66	2.78	2.92	2.95	2.75	2.67	2.64	2.83	2.92	2.74	2.61	2.65	23.32 2.76 0.88
22.50	2.47	2.42	2.53	2.61	2.62	2.50	2.41	2.67	2.79	2.80	2.72	2.57	2.59	22.16 2.59 0.86
	2.27	2.22	2.32	2.35	2.36	2.29	2.22	2.37	2.42	2.42	2.37	2.30	2.32	20.99 2.33 0.92
20.00	2.34	2.27	2.39	2.43	2.44	2.37	2.28	2.34	2.40	2.42	2.37	2.29	2.31	19.82 2.36 0.93
	2.68	2.62	2.74	2.86	2.87	2.74	2.63	2.65	2.80	2.82	2.76	2.58	2.62	18.66 2.72 0.90
17.50	3.11	3.08	3.19	3.39	3.45	3.17	3.07	3.14	3.36	3.45	3.25	3.08	3.11	17.49 3.22 0.89
	2.97	2.94	3.06	3.23	3.26	3.03	2.94	2.95	3.15	3.22	3.06	2.88	2.93	16.32 3.05 0.88

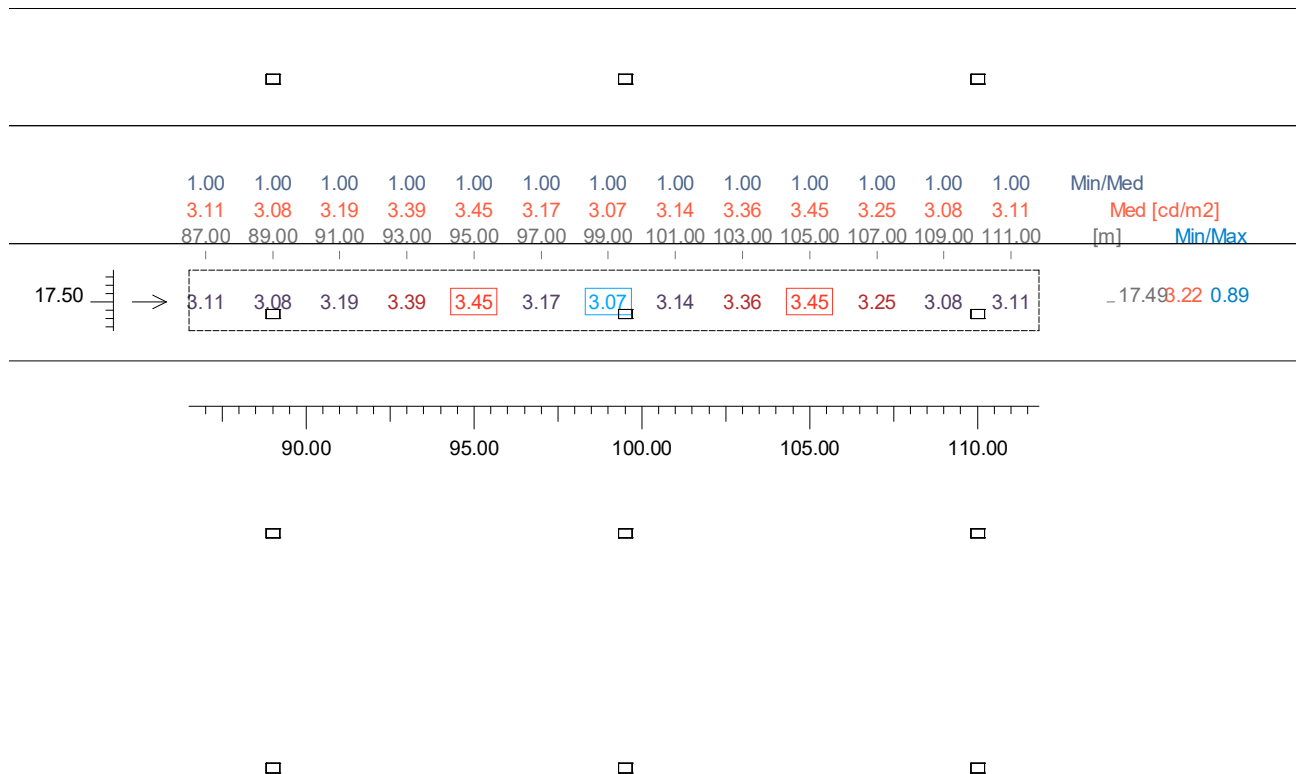


4.11 Valori delle Luminanze su: 4 - Autostrada A14 [UI,c1 (Autostrada, Sezione 5)] - Oss. 1 [x=-60.00 y=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.22 cd/m2	3.07 cd/m2	3.45 cd/m2	0.95	0.89	0.93

Osservatore
Tipo Calcolo

[x=-60.00 y=17.49 z=1.50] m => [x=30.00 y=17.49 z=0.00] m
Dir.+Indir. (Accuratezza:2)

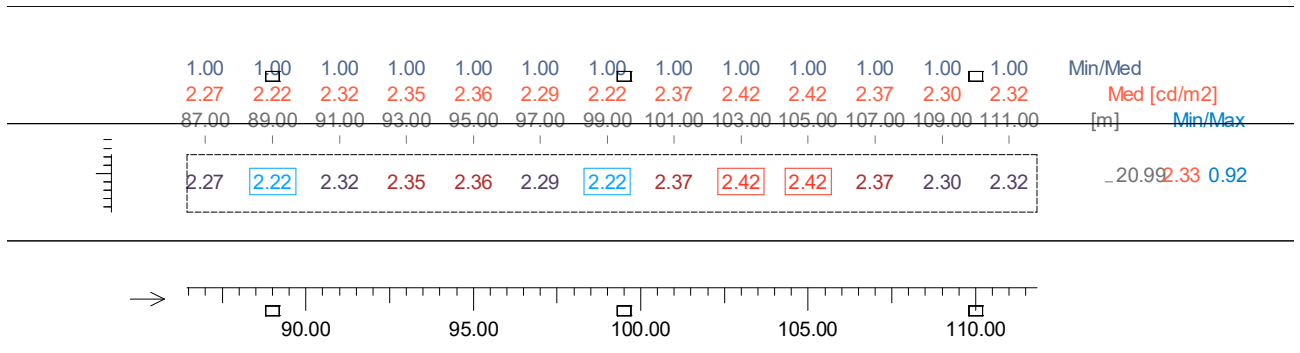


4.12 Valori delle Luminanze su: 4 - Autostrada A14 [UI,c2 (Autostrada, Sezione 5)] - Oss. 1 [x=-60.00 y=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.33 cd/m2	2.22 cd/m2	2.42 cd/m2	0.95	0.92	0.96

Osservatore
Tipo Calcolo

[x=-60.00 y=17.49 z=1.50] m => [x=30.00 y=17.49 z=0.00] m
Dir.+Indir. (Accuratezza:2)

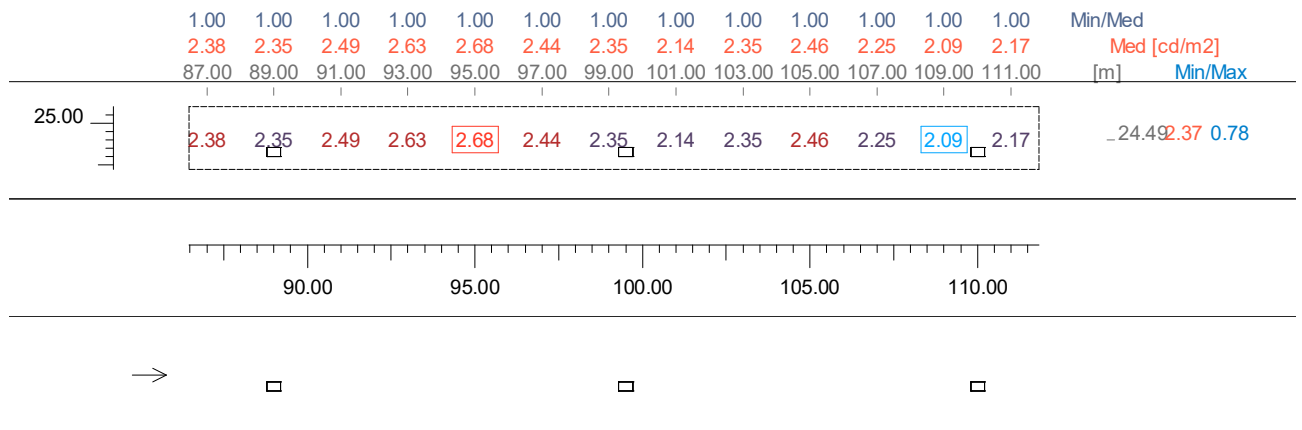


4.13 Valori delle Luminanze su: 4 - Autostrada A14 [UI,c3 (Autostrada, Sezione 5)] - Oss. 1 [x=-60.00 y=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	2.37 cd/m2	2.09 cd/m2	2.68 cd/m2	0.88	0.78	0.88

Osservatore
Tipo Calcolo

[x=-60.00 y=17.49 z=1.50] m => [x=30.00 y=17.49 z=0.00] m
Dir.+Indir. (Accuratezza:2)

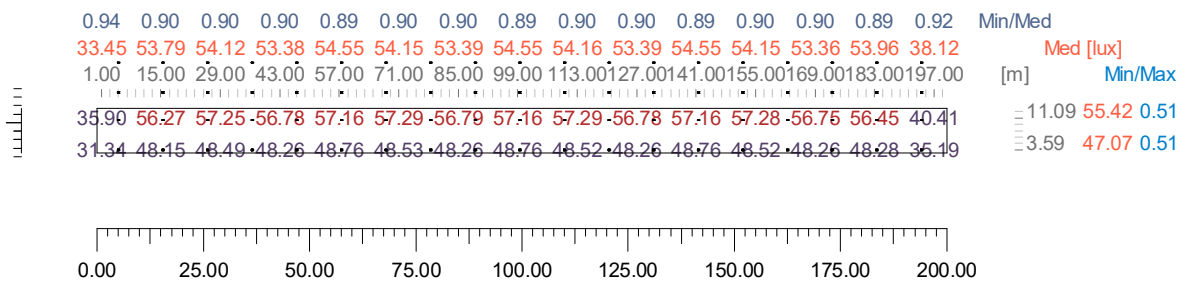


4.14 Valori di Illuminamento su: 2 - Tangenziale

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.62 lx	25.00 lx	58.00 lx	0.48	0.43	0.91

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

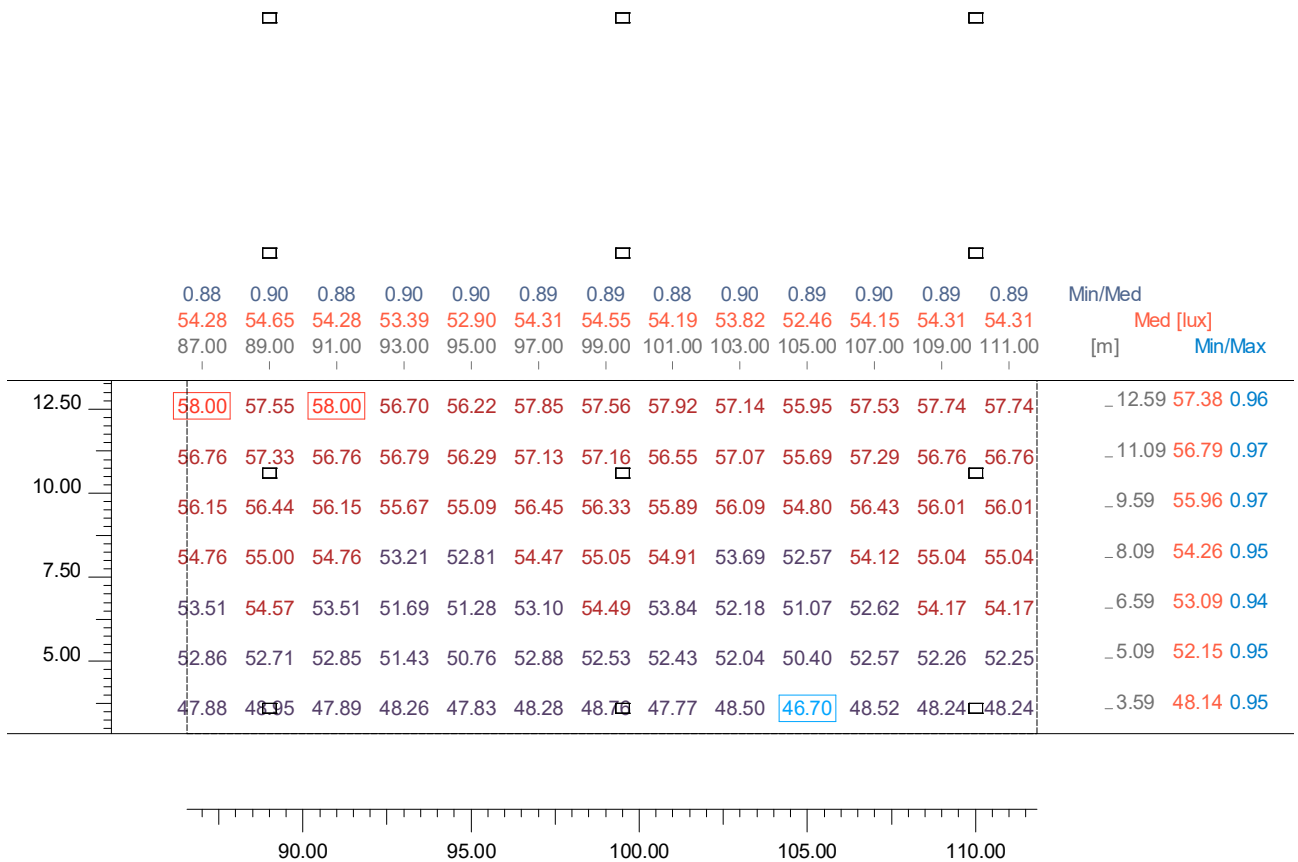


4.15 Valori di Illuminamento su: 2 - Tangenziale [Lp,c (Tangenziale, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	53.97 lx	46.70 lx	58.00 lx	0.87	0.81	0.93

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

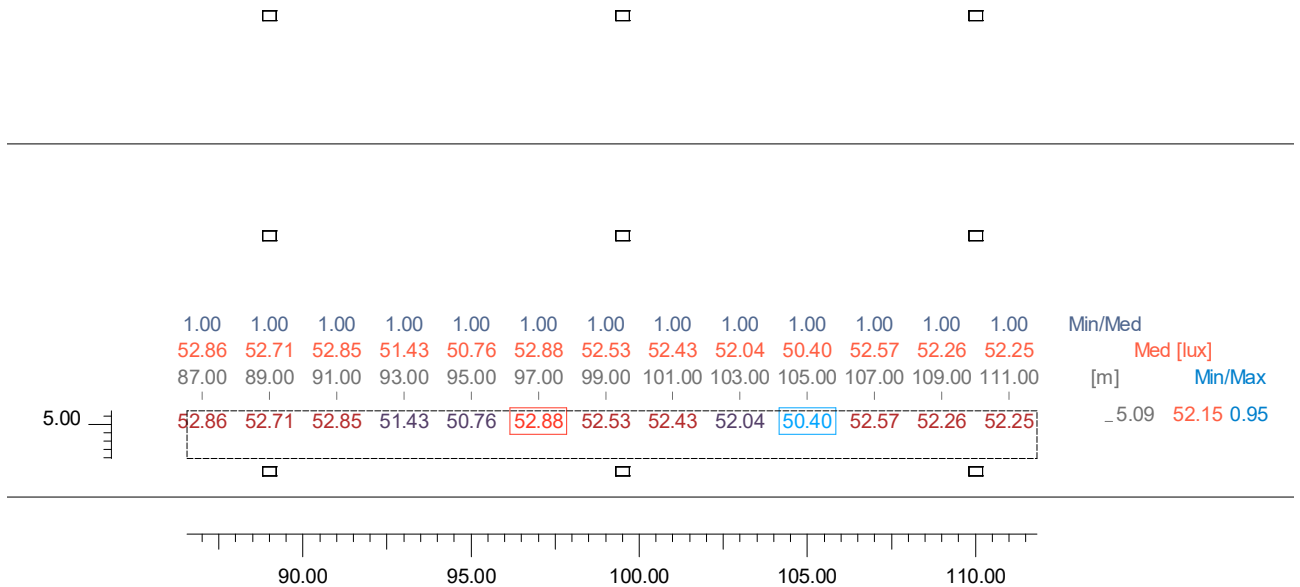


4.16 Valori di Illuminamento su: 2 - Tangenziale [UI,c1 (Tangenziale, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	52.15 lx	50.40 lx	52.88 lx	0.97	0.95	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

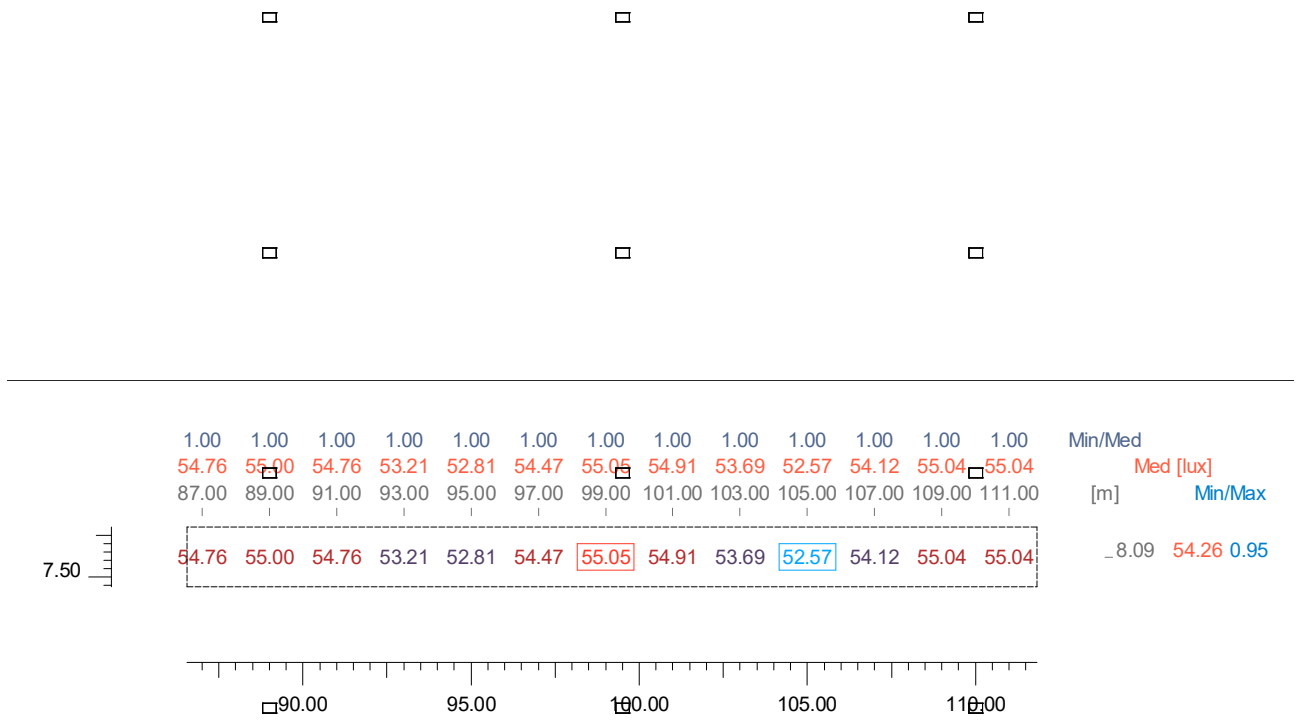


4.17 Valori di Illuminamento su: 2 - Tangenziale [UI,c2 (Tangenziale, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	54.26 lx	52.57 lx	55.05 lx	0.97	0.95	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

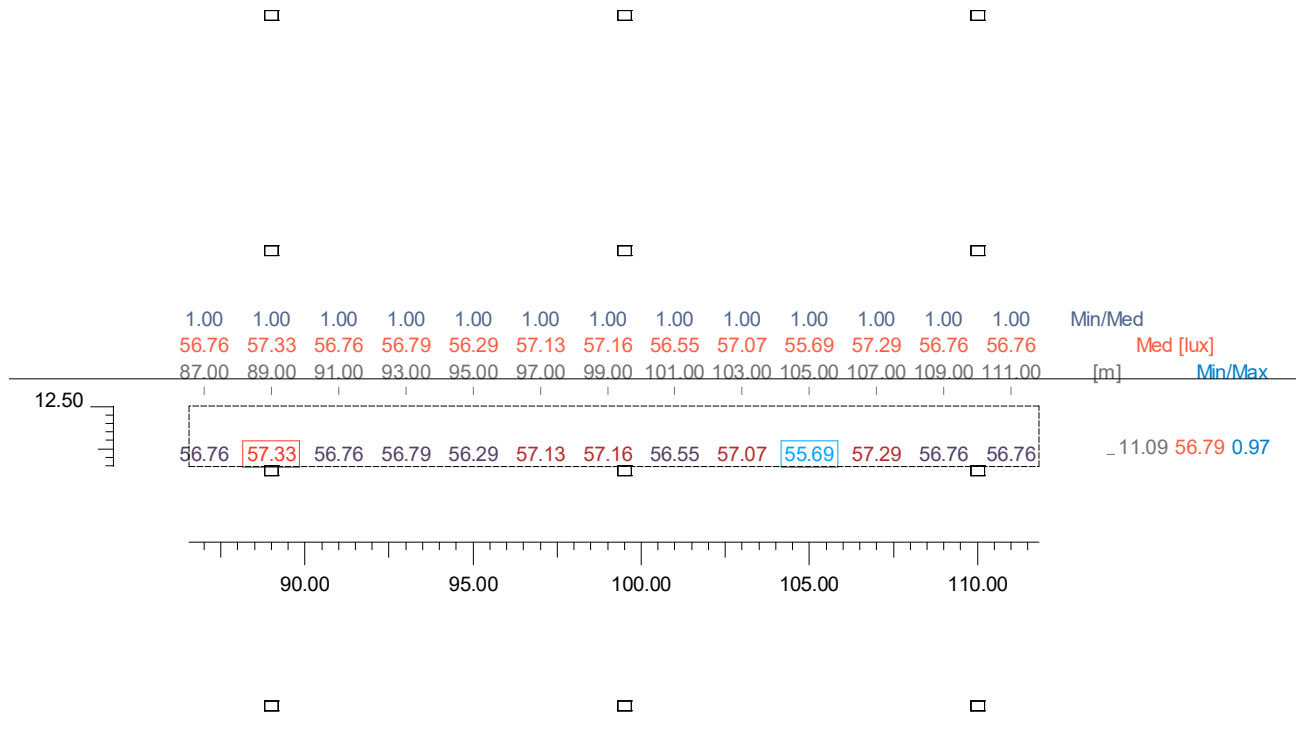


4.18 Valori di Illuminamento su: 2 - Tangenziale [UI,c3 (Tangenziale, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	56.79 lx	55.69 lx	57.33 lx	0.98	0.97	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

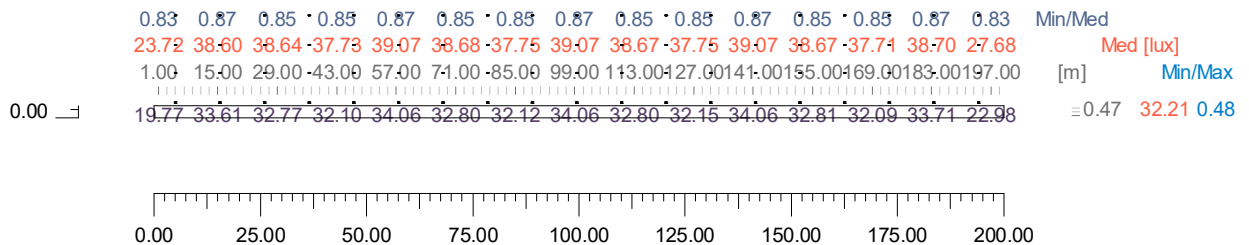


4.19 Valori di Illuminamento su: 1 - Carreggiata

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	37.56 lx	16.50 lx	44.58 lx	0.44	0.37	0.84

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

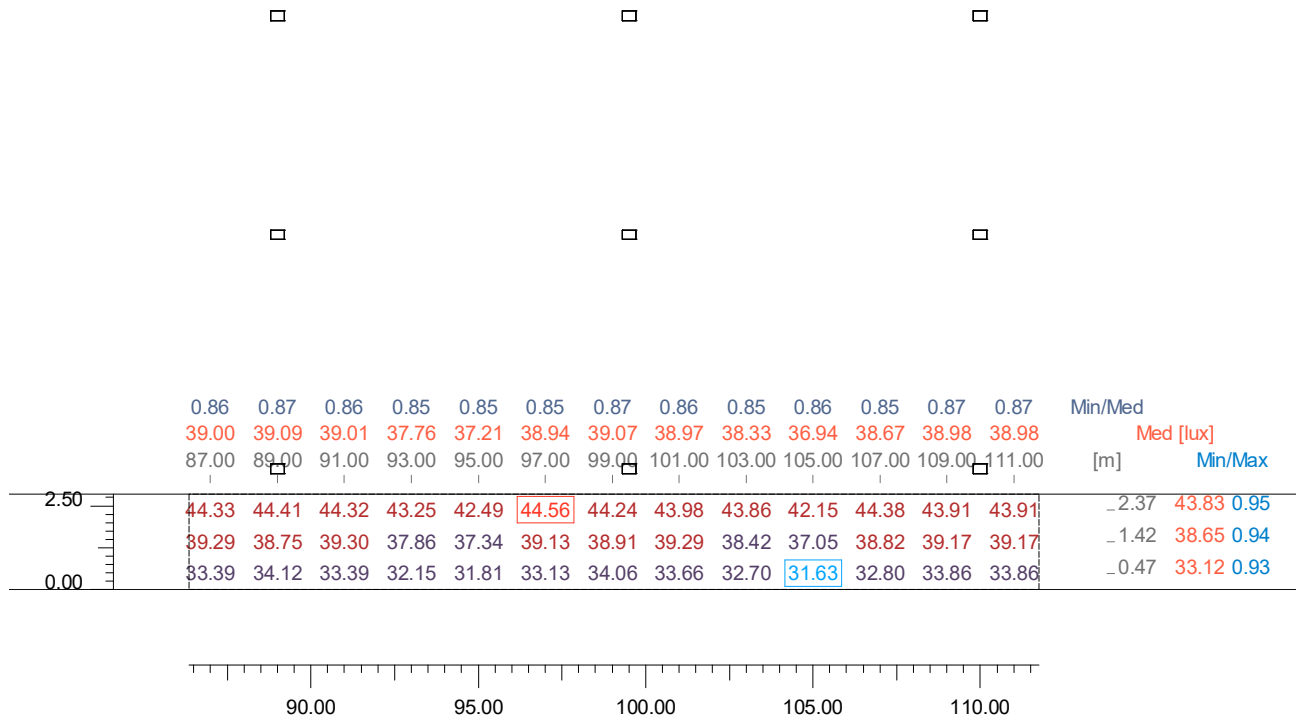


4.20 Valori di Illuminamento su: 1 - Carreggiata [Lp,cEM (Tangenziale, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	38.53 lx	31.63 lx	44.56 lx	0.82	0.71	0.86

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

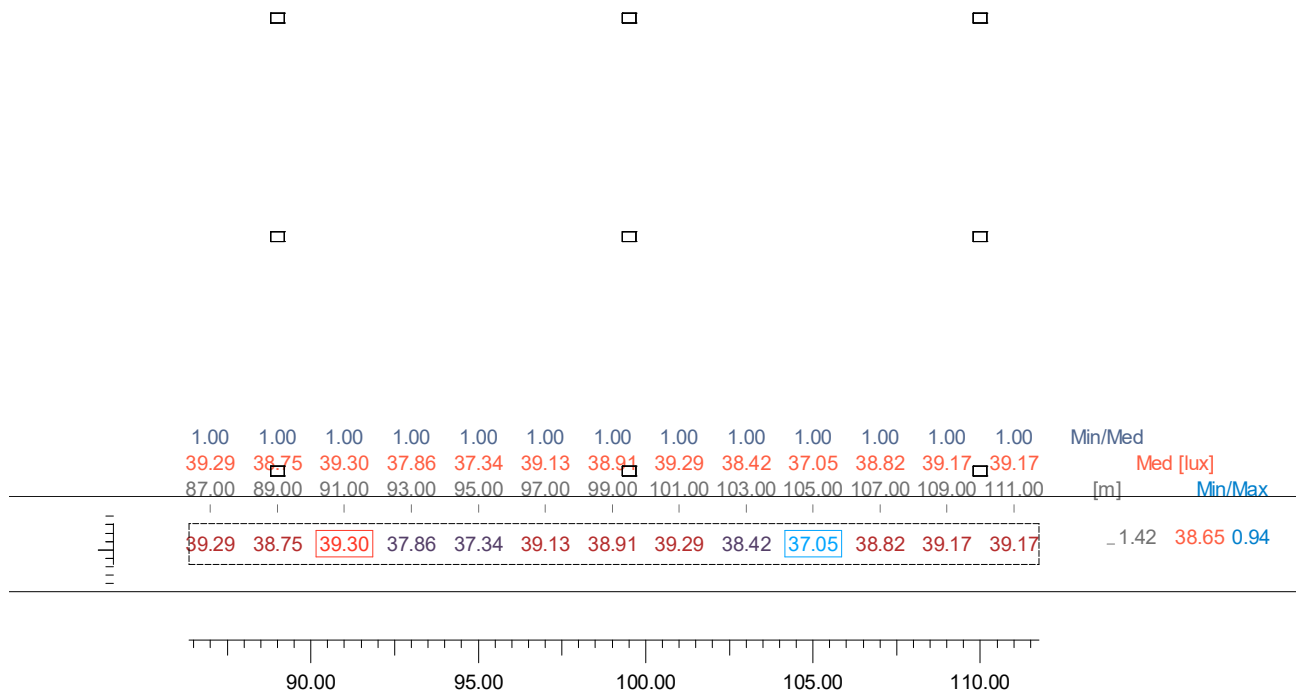


4.21 Valori di Illuminamento su: 1 - Carreggiata [UI,cEM (Tangenziale, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	38.65 lx	37.05 lx	39.30 lx	0.96	0.94	0.98

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

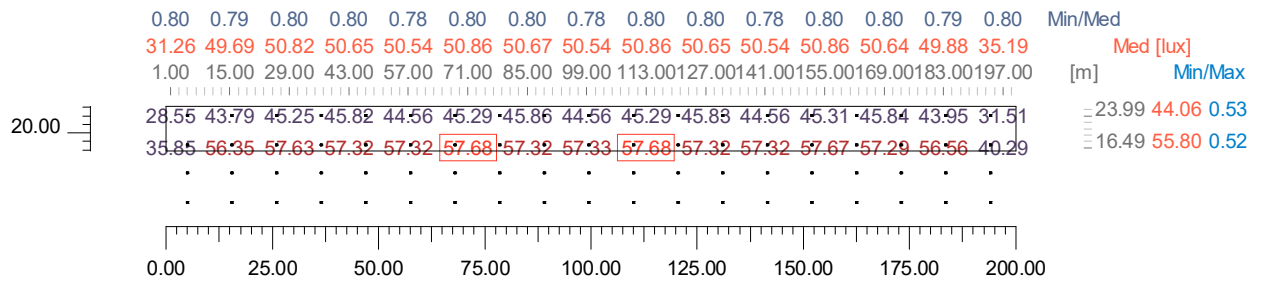


4.22 Valori di Illuminamento su: 4 - Autostrada A14

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	49.32 lx	21.08 lx	57.68 lx	0.43	0.37	0.86

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



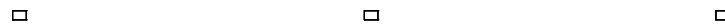
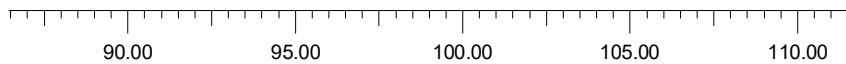
4.23 Valori di Illuminamento su: 4 - Autostrada A14 [Lp,c (Autostrada, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	50.55 lx	39.49 lx	57.68 lx	0.78	0.68	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	0.79	0.79	0.79	0.80	0.80	0.79	0.78	0.79	0.80	0.80	0.80	0.78	0.78	Min/Med		
	50.50	50.61	50.49	50.66	50.53	50.76	50.54	50.28	50.77	50.41	50.86	50.36	50.36	Med [lux]		
	87.00	89.00	91.00	93.00	95.00	97.00	99.00	101.00	103.00	105.00	107.00	109.00	111.00	Min/Max		
														[m]		
25.00	39.85	39.76	39.85	40.59	40.57	40.30	39.66	39.49	40.63	40.34	40.58	39.51	39.49	-25.49	40.05	0.97
	44.36	44.57	44.36	45.88	46.25	44.86	44.56	44.13	45.60	46.73	45.29	44.33	44.32	-23.99	45.03	0.94
22.50	49.13	48.89	49.12	49.48	49.35	49.47	48.78	48.69	49.52	49.17	49.56	48.60	48.60	-22.49	49.10	0.98
	51.96	52.48	51.96	51.18	50.98	51.81	52.43	52.10	51.39	50.84	51.61	52.24	52.25	-20.99	51.79	0.97
20.00	54.86	54.55	54.86	53.87	53.51	54.73	54.65	54.82	54.21	53.33	54.51	54.82	54.81	-19.49	54.42	0.97
	56.23	56.47	56.23	56.32	55.98	56.63	56.35	55.95	56.55	55.74	56.79	56.06	56.06	-17.99	56.26	0.98
17.50	57.08	57.44	57.09	57.32	57.05	57.49	57.33	56.80	57.49	56.71	57.68	56.97	56.97	-16.49	57.19	0.98

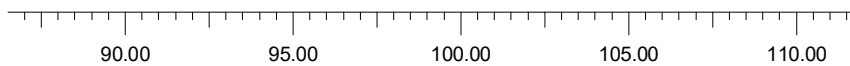
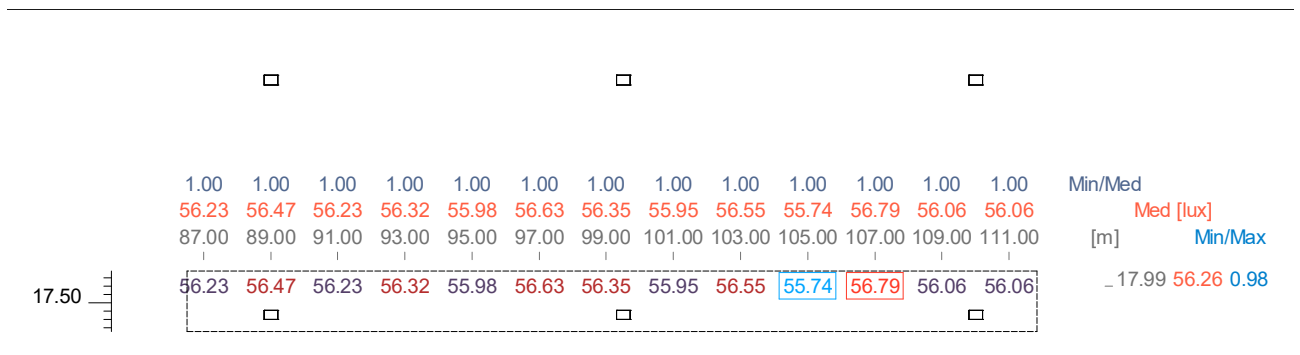


4.24 Valori di Illuminamento su: 4 - Autostrada A14 [UI,c1 (Autostrada, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	56.26 lx	55.74 lx	56.79 lx	0.99	0.98	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

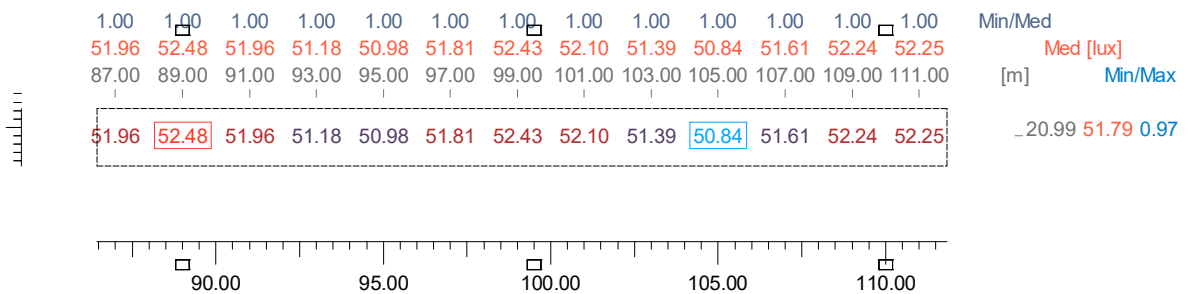


4.25 Valori di Illuminamento su: 4 - Autostrada A14 [UI,c2 (Autostrada, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	51.79 lx	50.84 lx	52.48 lx	0.98	0.97	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

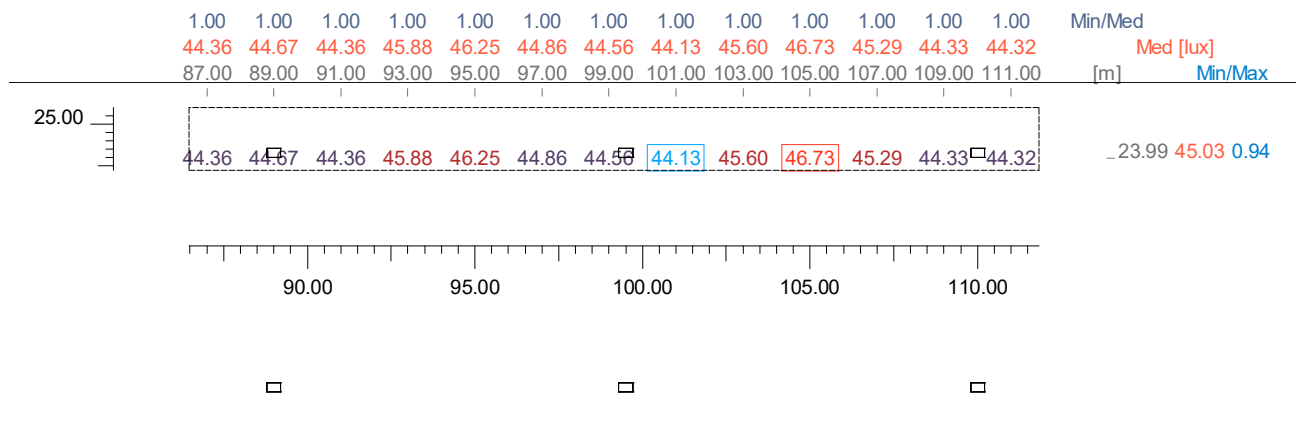


4.26 Valori di Illuminamento su: 4 - Autostrada A14 [UI,c3 (Autostrada, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	45.03 lx	44.13 lx	46.73 lx	0.98	0.94	0.96

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

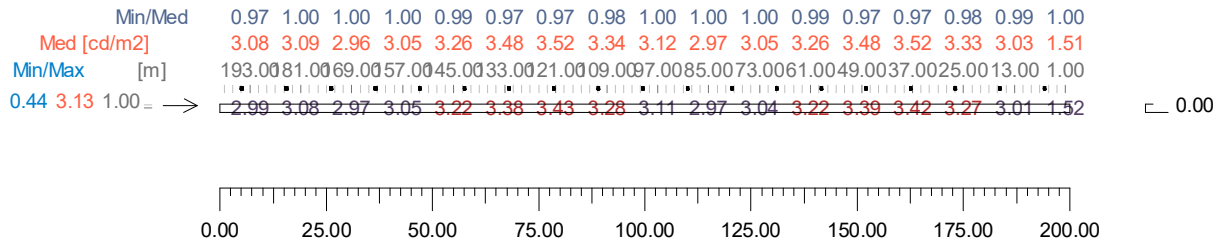


4.27 Valori delle Luminanze su: Parete Virtuale Destra - Oss. 1 (Lambert) [x=-60.00 y=1.42] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.18 cd/m2	1.51 cd/m2	3.65 cd/m2	0.48	0.41	0.87

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

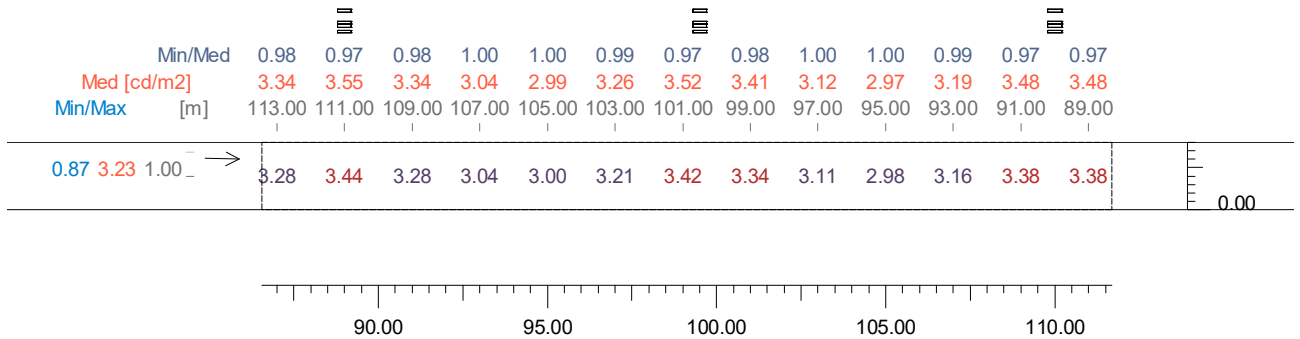


4.28 Valori delle Luminanze su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 5)] - Oss. 1 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.28 cd/m ²	2.96 cd/m ²	3.65 cd/m ²	0.90	0.81	0.90

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)

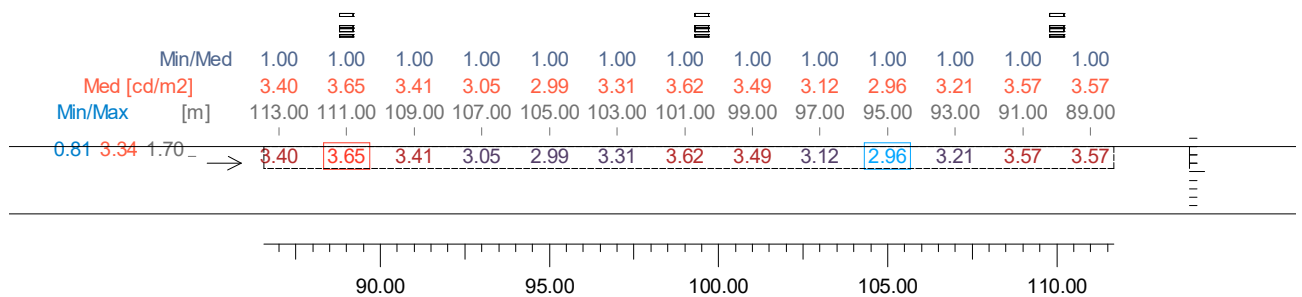


4.29 Valori delle Luminanze su: Parete Virtuale Destra [UI,pd (Tangenziale, Sezione 5)] - Oss. 1 (Lambe

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.34 cd/m2	2.96 cd/m2	3.65 cd/m2	0.89	0.81	0.91

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=1.42 z=1.50] m => [x=30.00 y=1.42 z=0.00] m
Dir.+Indir. (Accuratezza:2)



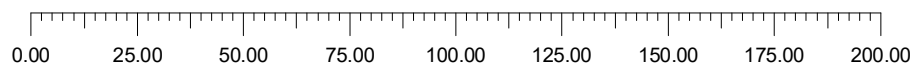
4.30 Valori di Illuminamento su: Parete Virtuale Destra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	28.53 lx	13.57 lx	32.77 lx	0.48	0.41	0.87

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

Min/Med	0.97	0.98	1.00	0.98	0.98	1.00	0.98	0.98	1.00	0.98	0.98	1.00	0.98	0.98	1.00
Med [lux]	23.61	30.45	26.60	29.97	30.64	26.62	29.95	30.65	26.62	29.96	30.64	26.62	29.97	30.26	13.59
Min/Max [m]	197.00	183.00	169.00	155.00	141.00	127.00	113.00	99.00	85.00	71.00	57.00	43.00	29.00	15.00	1.00
0.44 28.11 1.00 =	22.88	29.73	26.65	29.43	29.95	26.67	29.41	29.95	26.67	29.42	29.95	26.67	29.44	29.51	13.62

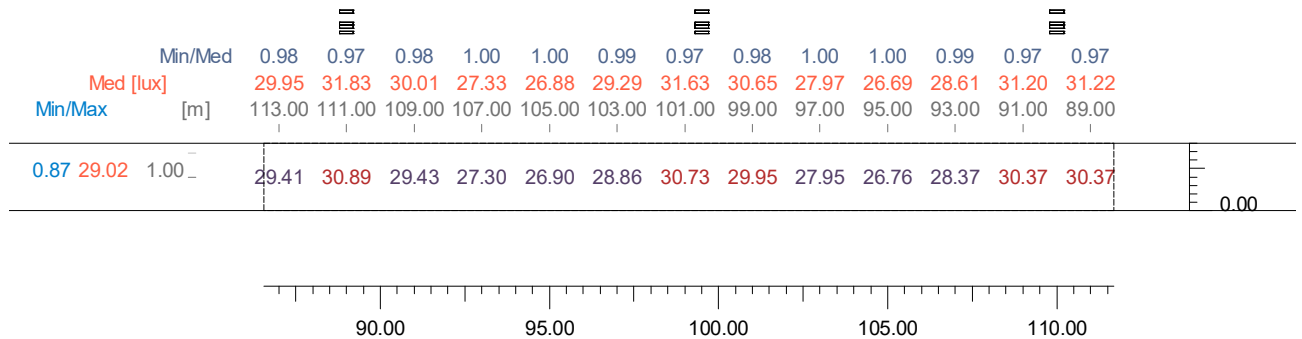


4.31 Valori di Illuminamento su: Parete Virtuale Destra [Lp,pd (Tangenziale, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	29.48 lx	26.61 lx	32.77 lx	0.90	0.81	0.90

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

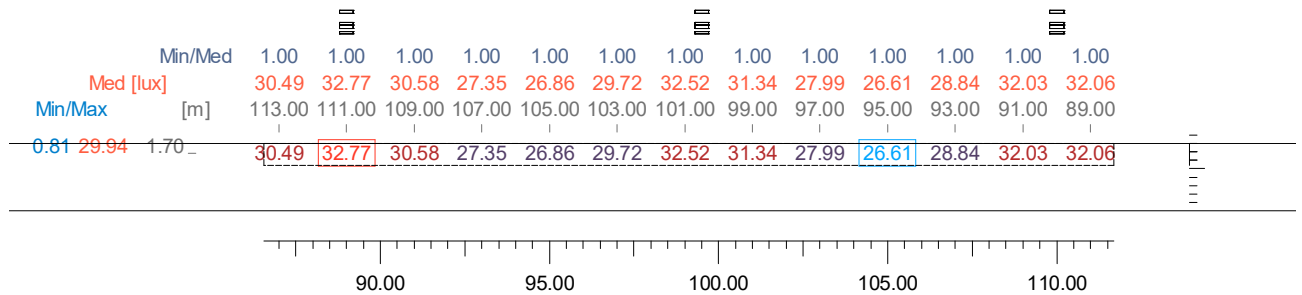


4.32 Valori di Illuminamento su: Parete Virtuale Destra [U, pd (Tangenziale, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	29.94 lx	26.61 lx	32.77 lx	0.89	0.81	0.91

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

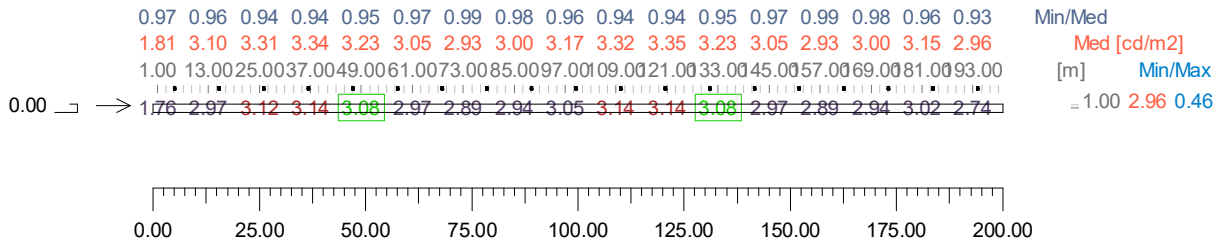


4.33 Valori delle Luminanze su: Parete Virtuale Sinistra - Oss. 2 (Lambert) [x=-60.00 y=4.59] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.08 cd/m2	1.47 cd/m2	3.57 cd/m2	0.48	0.41	0.86

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

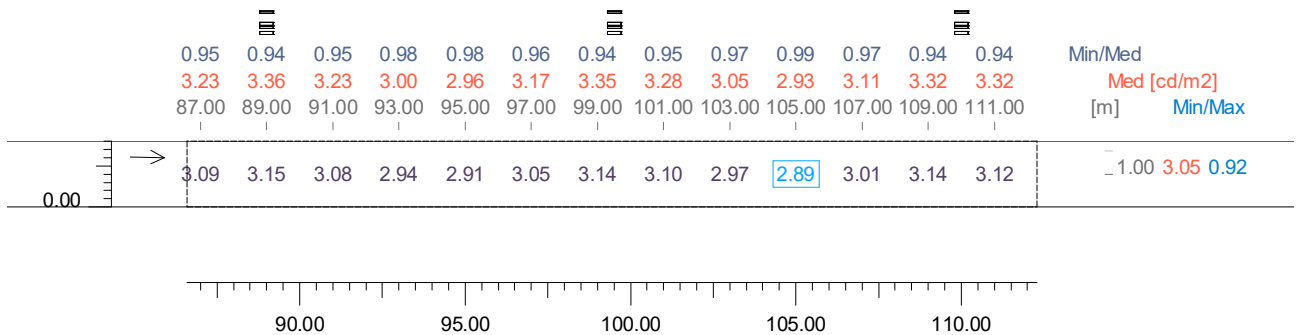


4.34 Valori delle Luminanze su: Parete Virtuale Sinistra [Lp,ps (Autostrada, Sezione 5)] - Oss. 2 (Lambert)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.18 cd/m ²	2.89 cd/m ²	3.57 cd/m ²	0.91	0.81	0.89

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

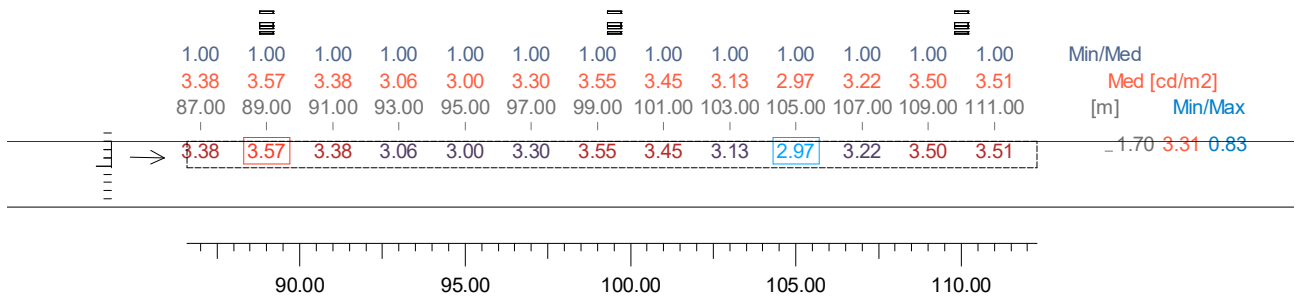


4.35 Valori delle Luminanze su: Parete Virtuale Sinistra [UI,ps (Autostrada, Sezione 5)] - Oss. 2 (Lambe

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	3.31 cd/m2	2.97 cd/m2	3.57 cd/m2	0.90	0.83	0.93

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=4.59 z=1.50] m => [x=30.00 y=4.59 z=0.00] m
Dir.+Indir. (Accuratezza:2)

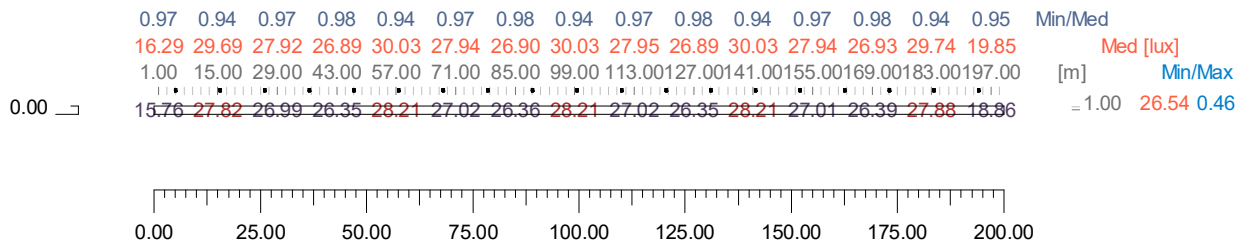


4.36 Valori di Illuminamento su: Parete Virtuale Sinistra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	27.64 lx	13.16 lx	32.04 lx	0.48	0.41	0.86

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

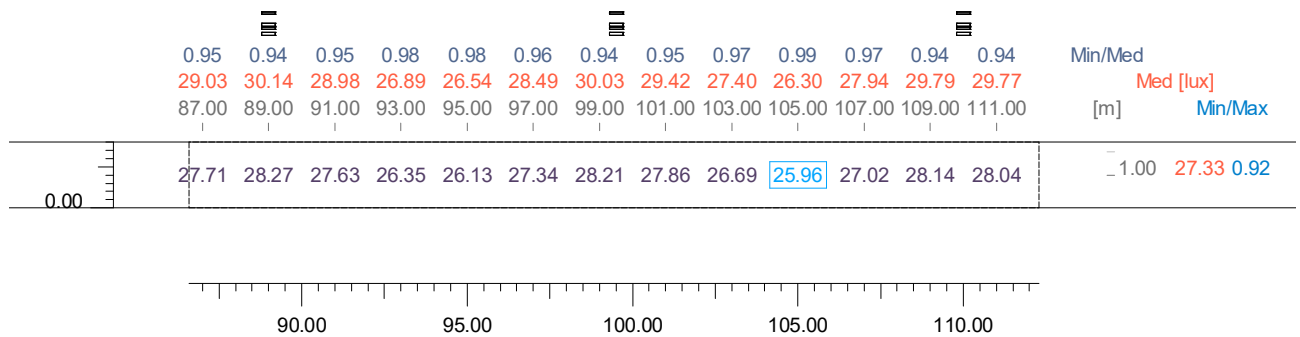


4.37 Valori di Illuminamento su: Parete Virtuale Sinistra [Lp,ps (Autostrada, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	28.52 lx	25.96 lx	32.01 lx	0.91	0.81	0.89

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

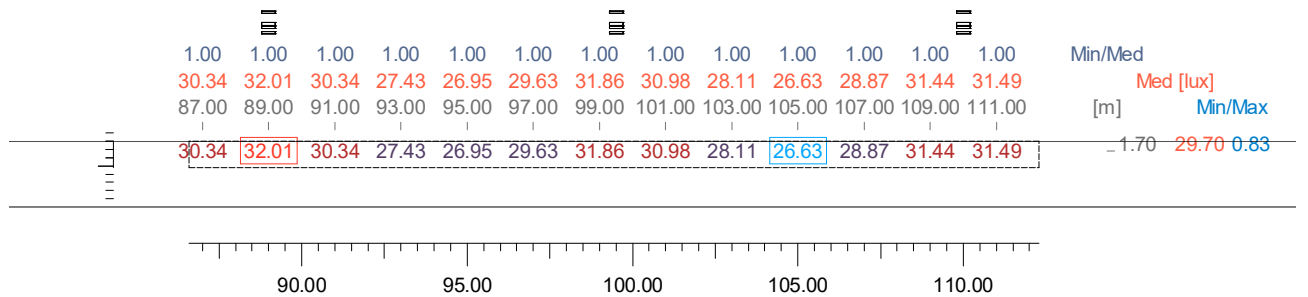


4.38 Valori di Illuminamento su: Parete Virtuale Sinistra [UI,ps (Autostrada, Sezione 5)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	29.70 lx	26.63 lx	32.01 lx	0.90	0.83	0.93

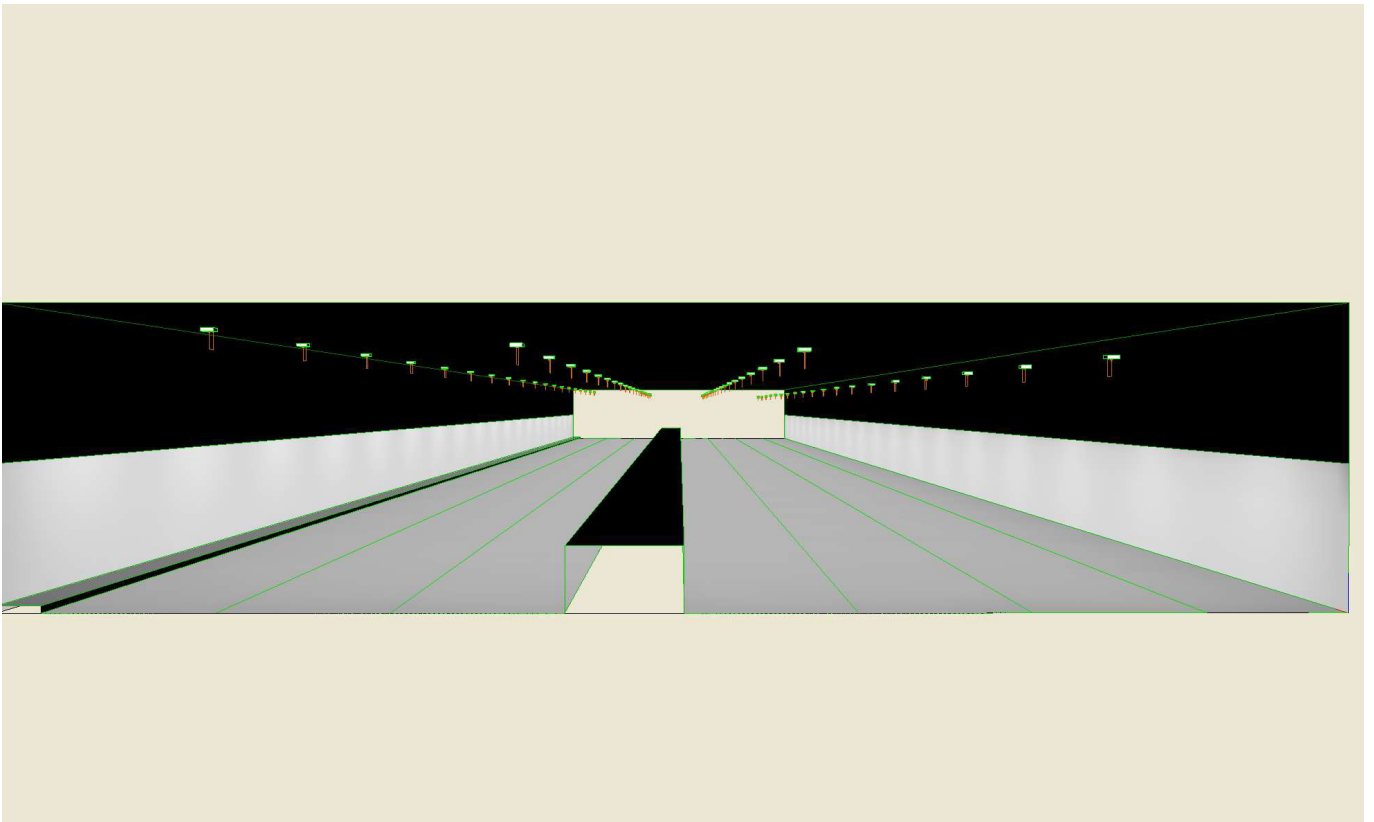
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

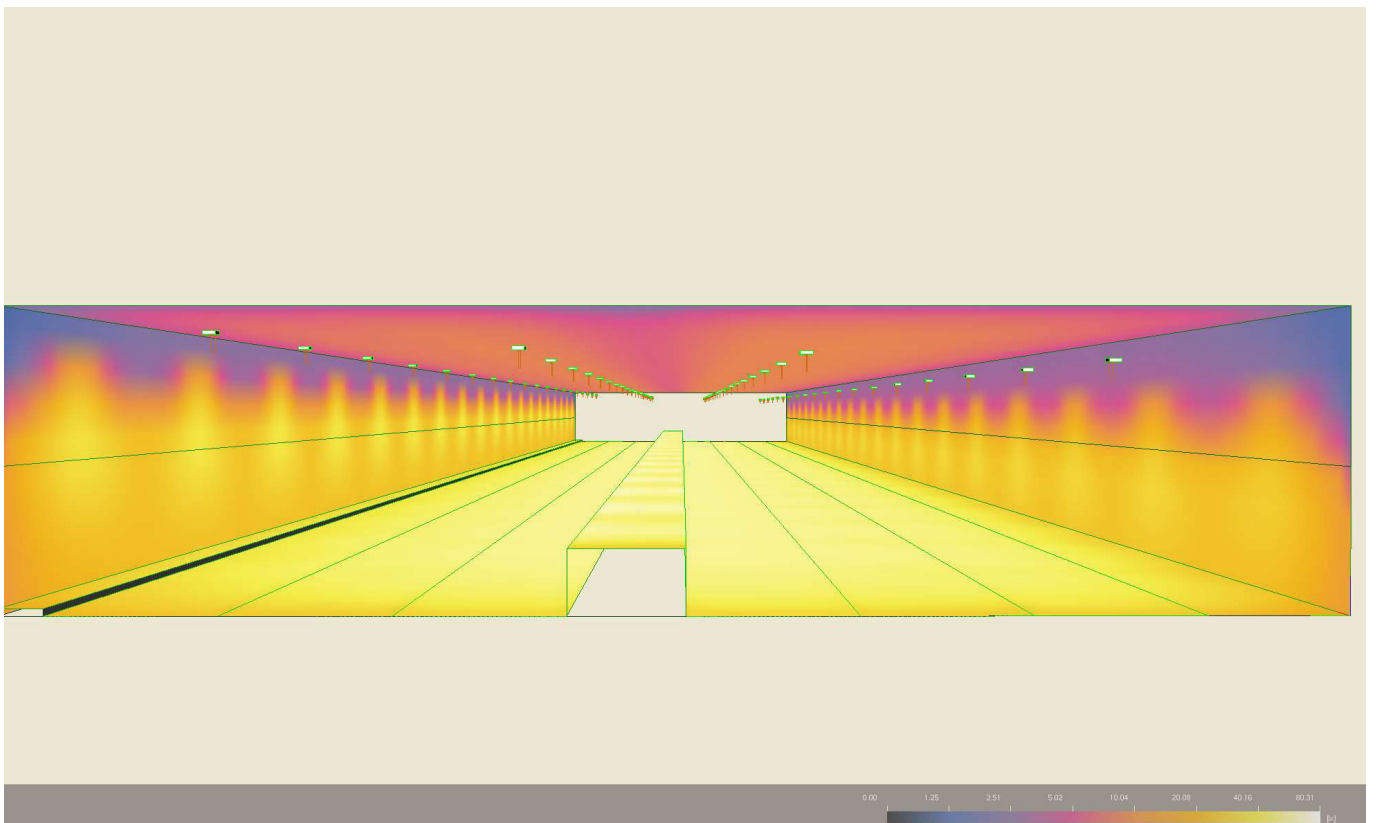


5. Immagini

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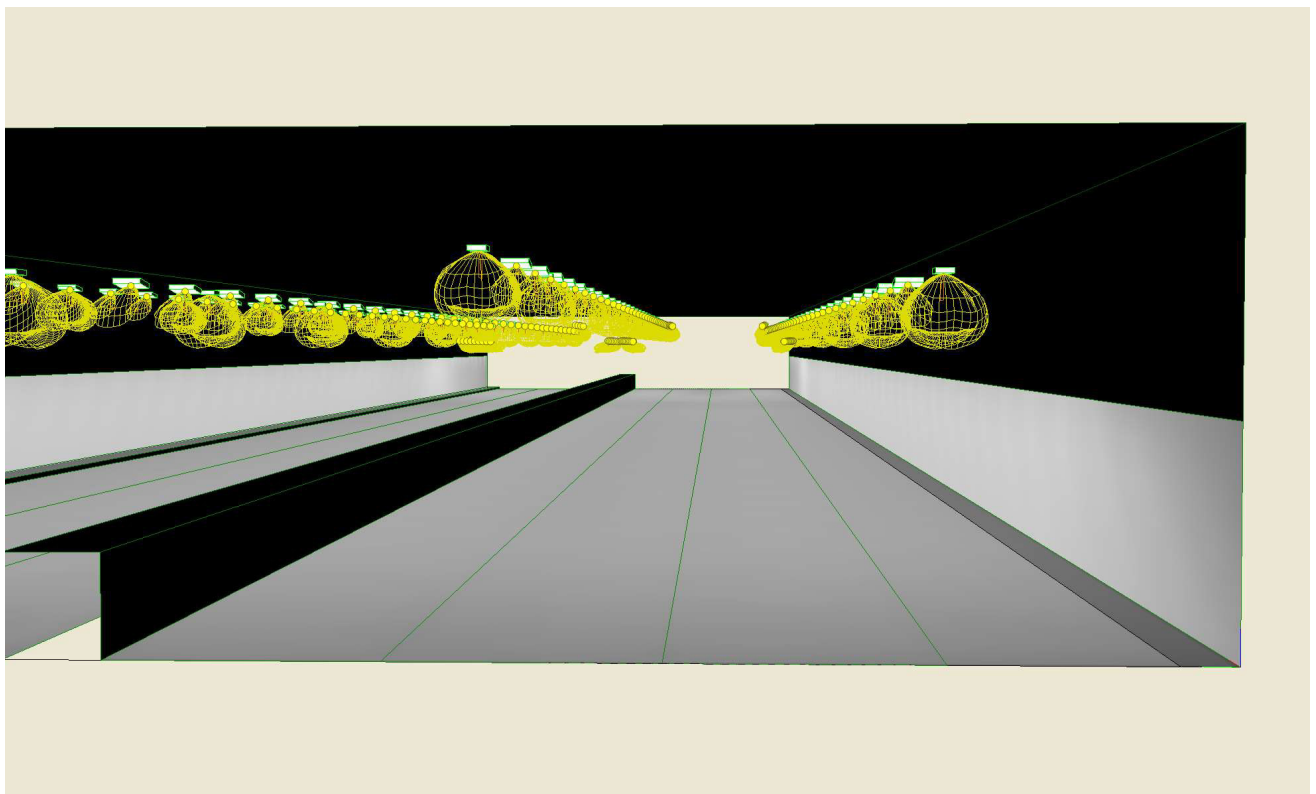
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Galleria San Donnino

Note Installazione: Rinforzo - Autostrada - Sezione 1+2 - Direzione Milano
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 17/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria 6.61m
Fattore di manutenzione 80%
H. corpi illuminanti come da tabella sotto
Le = 100 cd/mq
Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

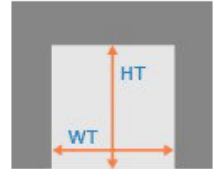
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

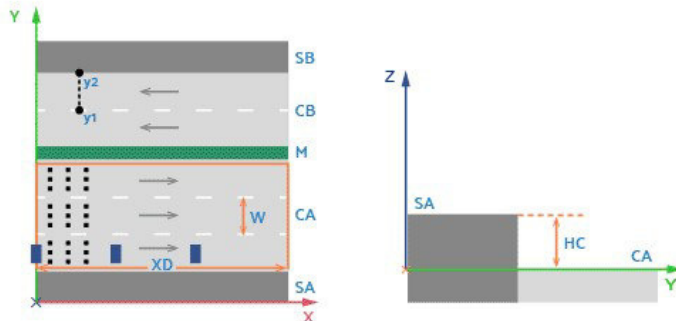
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice	Cubo (A)
Larghezza (WT)	27.66 m
Altezza (HT)	6.61 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%



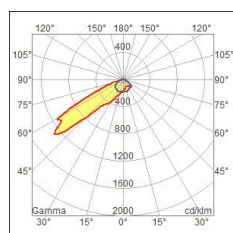
Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0		
1. Marciapiede	Pista Ciclo/Pedona	Marciapiede	--->	0.72	0.00	0.72	3	3	0.00		0.3000		
2. Carreggiata	Carrabile	Corsia d'Emergenz	--->	2.84	0.72	3.56	3	3	0.00	C2	0.0560		
3. Tangenziale	Carrabile			10.50	3.56	14.06	7		0.00	C2	0.0560		
		3.1	Corsia 1	--->	3.50	3.56						7.06	3
		3.2	Corsia 2	--->	3.50	7.06						10.56	3
	3.3	Corsia 3	--->	3.50	10.56	14.06		3					
4. Mediana Centra	Secondaria	Mediana Centrale	--->	1.25	14.06	15.31	3	3	1.35		0.0000		
5. Autostrada A14	Carrabile			11.25	15.31	26.56	8		0.00	C2	0.0560		
		5.1	Corsia 1	--->	3.75	15.31						19.06	3
		5.2	Corsia 2	--->	3.75	19.06						22.81	3
	5.3	Corsia 3	--->	3.75	22.81	26.56		3					
6. Marciapiede B	Pista Ciclo/Pedona	Marciapiede	--->	1.10	26.56	27.66	3	3	0.15		0.3000		



1.2 Informazioni Apparecchi/Rilievi

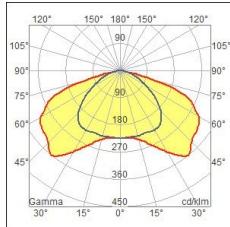
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
------	--	--	-------------	--------------	--------	------------	---------------	-----------	-------------

A	Detas SpA Radiant 8XXL_128D700_W218A	Radiant 8XXL_128D700_W218A	37971.00	0.80	100 %	255,255,255	132	Sorg-A	1
---	---	----------------------------	----------	------	-------	-------------	-----	--------	---

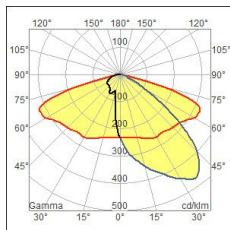


Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
------	--	--	----------------	-----------------	--------	---------------	------------------	-----------	----------------

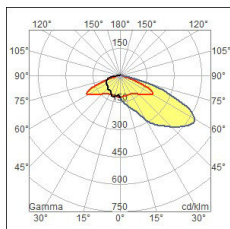
B Detas SpA Radiant 8XXL_96D830_W244S 35110.00 0.80 100 % 255,255,255 16 Sorg-B 1
Radiant 8XXL_96D830_W244S (Radiant 8XXL_96D830_W244S);
(Radiant 8XXL_96D830_W244S);



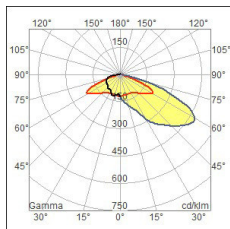
C Detas SpA Radiant 8XXL_128D750_W206A 37730.00 0.80 100 % 255,255,255 36 Sorg-C 1
Radiant 8XXL_128D750_W206A (Radiant 8XXL_128D750_W206A);
(Radiant 8XXL_128D750_W206A);



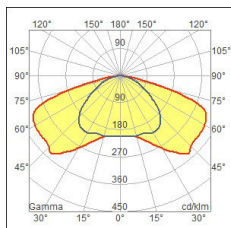
D Detas SpA Radiant 8S 16D700_W201A 4770.00 0.80 100 % 255,255,255 8 Sorg-D 1
Radiant 8S 16D700_W201A (Radiant 8S 16D700_W201A);
(Radiant 8S 16D700_W201A);



E Detas SpA Radiant 8S 16D440_W201A 3101.00 0.80 100 % 255,255,255 8 Sorg-E 1
Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A);
(Radiant 8S 16D440_W201A);



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
F	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	44	Sorg-F	1

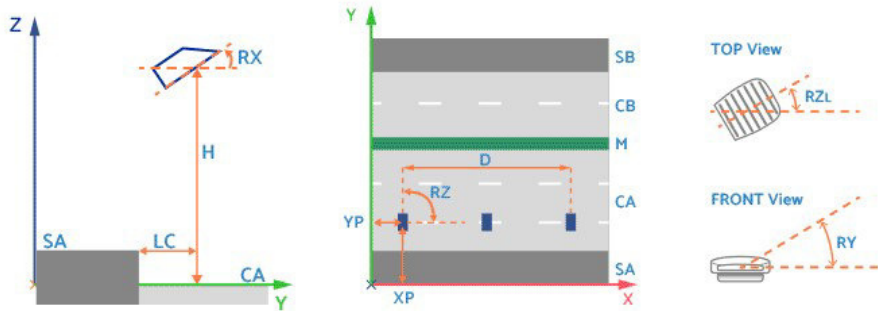


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		128D700 282W	128D700 282W	282.00	0.0000	37971	6000	132
Sorg-B		96D830 256W	96D830 256W	256.00	0.0000	35110	6000	16
Sorg-C		128D750 304W	128D750 304W	304.00	0.0000	37730	6000	36
Sorg-D		16D700 35W	16D700 35W	35.00	0.0000	4770	6000	8
Sorg-E		16D440 22W	16D440 22W	22.00	0.0000	3101	6000	8
Sorg-F		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	44

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altez.App. [m] (H)	Num. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila B	F		5.00	3.00	5.00	11	10.50	0.00	105.00	0	0	-0
Fila B	F		5.00	10.00	5.35	11	10.50	0.00	105.00	0	0	-0
Fila B	F		5.00	17.15	5.00	11	10.50	0.00	105.00	0	0	-0
Fila B	F		5.00	24.15	5.45	11	10.50	0.00	105.00	0	0	-0
Row	D	Layer 0	119.20	0.50	4.31	4	6.50	0.00	19.50	0	0	0
Row	E	Layer 0	119.20	14.15	4.31	4	6.50	0.00	19.50	0	180	0
Row	E	Layer 0	119.20	15.20	4.31	4	6.50	0.00	19.50	0	0	0
Row	D	Layer 0	119.20	27.10	4.31	4	6.50	0.00	19.50	0	180	0
Row	A	Layer 0	10.00	3.00	5.00	24	3.25	0.00	74.75	0	0	9
Row	A	Layer 0	10.00	10.00	5.35	24	3.25	0.00	74.75	0	0	9
Row	A	Layer 0	10.00	17.00	5.00	24	3.25	0.00	74.75	0	0	9
Row	A	Layer 0	10.00	24.15	5.45	24	3.25	0.00	74.75	0	0	9
Row	A	Layer 0	87.30	3.00	5.00	9	3.15	3.00	28.01	0	0	9
Row	A	Layer 0	87.30	10.00	5.35	9	3.15	3.00	28.01	0	0	9
Row	A	Layer 0	87.30	17.00	5.00	9	3.15	3.00	28.01	0	0	9
Row	A	Layer 0	87.30	24.15	5.45	9	3.15	3.00	28.01	0	0	9
Row	B	Layer 0	109.00	3.00	5.45	4	2.50	0.00	7.50	0	0	0
Row	B	Layer 0	109.00	10.00	5.45	4	2.50	0.00	7.50	0	0	0
Row	B	Layer 0	109.00	17.00	5.45	4	2.50	0.00	7.50	0	0	0
Row	B	Layer 0	109.00	24.15	5.45	4	2.50	0.00	7.50	0	0	0
Row	C	Layer 0	119.00	0.50	4.31	9	2.00	5.00	19.10	9	0	0
Row	C	Layer 0	119.00	14.15	4.31	9	2.00	5.00	19.10	9	180	0
Row	C	Layer 0	119.00	15.20	4.31	9	2.00	5.00	19.10	9	0	0
Row	C	Layer 0	119.00	27.10	4.31	9	2.00	5.00	19.10	9	180	0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Marciapiede	Risultati	E _{Av} = 929.0 lux	E _{MIN} = 283.84 lux		
2 - Carreggiata	Risultati	L _{Av} = 109.00 cd/m ²	U _o (L) = 0.22	U _L = 0.22	f _{TI} = 12 %
	Oss. 1) [x=-60.00 y=2.14] m	L _{Av} = 109.00 cd/m ² *	U _o (L) = 0.22 *	U _L = 0.22 *	f _{TI} = 11.93 %
	Oss.Ti [x=0.14 y=2.14] m	L _v = 22.18			
3 - Tangenziale	Risultati	L _{Av} = 93.31 cd/m ²	U _o (L) = 0.26	U _L = 0.22	f _{TI} = 14 %
	Oss. 1) [x=-60.00 y=5.31] m	L _{Av} = 93.31 cd/m ² *	U _o (L) = 0.26	U _L = 0.30	f _{TI} = 13.22 %
	Oss. 2) [x=-60.00 y=8.81] m	L _{Av} = 94.56 cd/m ²	U _o (L) = 0.26	U _L = 0.22 *	f _{TI} = 14.19 %
	Oss. 3) [x=-60.00 y=12.31] m	L _{Av} = 95.58 cd/m ²	U _o (L) = 0.26 *	U _L = 0.32	f _{TI} = 13.51 %
	Oss.Ti 1) [x=-5.86 y=5.31] m				
	Oss.Ti 2) [x=-5.86 y=8.81] m				
	Oss.Ti 3) [x=-5.86 y=12.31] m				
	L _v = 16.34				
5 - Autostrada A14	Risultati	L _{Av} = 97.87 cd/m ²	U _o (L) = 0.29	U _L = 0.21	f _{TI} = 17 %
	Oss. 1) [x=-60.00 y=17.18] m	L _{Av} = 97.87 cd/m ² *	U _o (L) = 0.29	U _L = 0.21 *	f _{TI} = 16.93 %
	Oss. 2) [x=-60.00 y=20.93] m	L _{Av} = 98.66 cd/m ²	U _o (L) = 0.29	U _L = 0.41	f _{TI} = 12.37 %
	Oss. 3) [x=-60.00 y=24.68] m	L _{Av} = 98.87 cd/m ²	U _o (L) = 0.29 *	U _L = 0.24	f _{TI} = 12.39 %
	Oss.Ti 1) [x=0.14 y=17.18] m				
	Oss.Ti 2) [x=-5.86 y=20.93] m				
	Oss.Ti 3) [x=-1.86 y=24.68] m				
	L _v = 26.52				
6 - Marciapiede B	Risultati	E _{Av} = 870.3 lux	E _{MIN} = 268.48 lux		

Riepilogo Uniformità di Lur

Sezione Ingresso	[10.00..81.50] m	(Luminanza Costante)		
Parete Destra	L _{Av} %,(pd/c,o1) = 74.0 %	L _{Av} ,pd=90.75 cd/m ²	U _o ,pd=0.86	U _L ,pd=0.88 (y=1.70)
Parete Sinistra	L _{Av} %,(ps/c,o1) = 65.0 %	L _{Av} ,ps=79.81 cd/m ²	U _o ,ps=0.85	U _L ,ps=0.85 (y=1.70)
1 - Marciapiede	L _{Av} %,(md/c,o1) = 74.5 %	L _{Av} ,md,o1=91.45 cd/m ²	U _o ,md,o1=0.83	U _L ,o1=0.81 (y=0.36)
2 - Carreggiata	---	L _{Av} ,c,o1=122.71 cd/m ²	U _o ,c,o1=0.66	U _L ,o1=0.93 (y=2.14)
3 - Tangenziale	---	L _{Av} ,c,o1=103.99 cd/m ²	U _o ,c,o3=0.68	U _L ,o3=0.90 (y=12.31)
---	Oss. 1) [x=-60.00 y=5.31] m	L _{Av} ,c,o1=103.99 cd/m ² *	U _o ,c,o1=0.70	U _L ,o1=0.90 (y=5.31)
---	Oss. 2) [x=-60.00 y=8.81] m	L _{Av} ,c,o2=106.03 cd/m ²	U _o ,c,o2=0.69	U _L ,o2=0.92 (y=8.81)
---	Oss. 3) [x=-60.00 y=12.31] m	L _{Av} ,c,o3=107.72 cd/m ²	U _o ,c,o3=0.68 *	U _L ,o3=0.90 (y=12.31)
5 - Autostrada A14	---	L _{Av} ,c,o1=107.69 cd/m ²	U _o ,c,o1=0.50	U _L ,o2=0.90 (y=20.93)
---	Oss. 1) [x=-60.00 y=17.18] m	L _{Av} ,c,o1=107.69 cd/m ² *	U _o ,c,o1=0.50 *	U _L ,o1=0.92 (y=17.18)
---	Oss. 2) [x=-60.00 y=20.93] m	L _{Av} ,c,o2=108.68 cd/m ²	U _o ,c,o2=0.58	U _L ,o2=0.90 (y=20.93)
---	Oss. 3) [x=-60.00 y=24.68] m	L _{Av} ,c,o3=108.99 cd/m ²	U _o ,c,o3=0.65	U _L ,o3=0.92 (y=24.68)
6 - Marciapiede B	L _{Av} %,(ms/c,o1) = 66.1 %	L _{Av} ,ms,o1=81.16 cd/m ²	U _o ,ms,o1=0.81	U _L ,o1=0.82 (y=27.11)

6 - Marciapiede B	LAv%,(ms/c,o1) = 66.1 %	LAv,ms,o1=81.16 cd/m ²	Uo,ms,o1=0.81	UI,o1=0.82 (y=27.11)
Sezione Ingresso	[81.50..140.00] m	(Luminanza Variabile)		
Parete Destra	LAvt%(pd/c,o1) = 50.9 % (x=1	LAvt,pd=19.73 cd/m ² (x=139.0	Uot,pd=0.94 (x=113.00	
Parete Sinistra	LAvt%(ps/c,o1) = 56.8 % (x=1	LAvt,ps=22.35 cd/m ² (x=139.0	Uot,ps=0.95 (x=109.00	
1 - Marciapiede	LAvt%(md/c,o1) = 76.2 % (x=9	LAvt,md,o1=40.68 cd/m ² (x=1	Uot,md,o1=0.79 (x=135	
2 - Carreggiata	--->	LAvt,c,o1=28.13 cd/m ² (x=13	Uot,c,o1=0.72 (x=85.00	
3 - Tangenziale	--->	LAvt,c,o1=28.80 cd/m ² (x=13	Uot,c,o1=0.66 (x=123.0	
--->	Oss. 1) [x=-60.00 y=5.31] m	LAvt,c,o1=28.80 cd/m ² (x=13	Uot,c,o1=0.66 (x=123.0	
--->	Oss. 2) [x=-60.00 y=8.81] m	LAvt,c,o2=28.81 cd/m ² (x=13	Uot,c,o2=0.68 (x=123.0	
--->	Oss. 3) [x=-60.00 y=12.31] m	LAvt,c,o3=28.83 cd/m ² (x=13	Uot,c,o3=0.69 (x=123.0	
5 - Autostrada A14	--->	LAvt,c,o2=32.64 cd/m ² (x=13	Uot,c,o1=0.56 (x=101.0	
--->	Oss. 1) [x=-60.00 y=17.18] m	LAvt,c,o1=32.64 cd/m ² (x=13	Uot,c,o1=0.56 (x=101.0	
--->	Oss. 2) [x=-60.00 y=20.93] m	LAvt,c,o2=32.64 cd/m ² (x=13	Uot,c,o2=0.65 (x=101.0	
--->	Oss. 3) [x=-60.00 y=24.68] m	LAvt,c,o3=32.64 cd/m ² (x=13	Uot,c,o3=0.69 (x=85.00	
6 - Marciapiede B	LAvt%(ms/c,o1) = 67.4 % (x=9	LAvt,ms,o1=49.92 cd/m ² (x=1	Uot,ms,o1=0.67 (x=135	

pd: Parete Destra ps: Parete Sinistra c: Carreggiata cm: Corsie di Marcia
md: Marciapiede Destro ms: Marciapiede Sinistro o: Osservatore

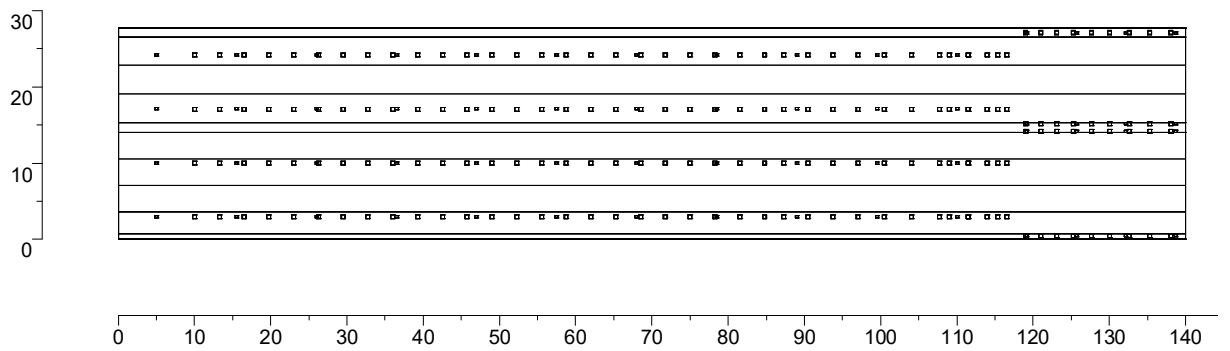
Inquinamento Luminoso

Rapporto Medio - Rn -

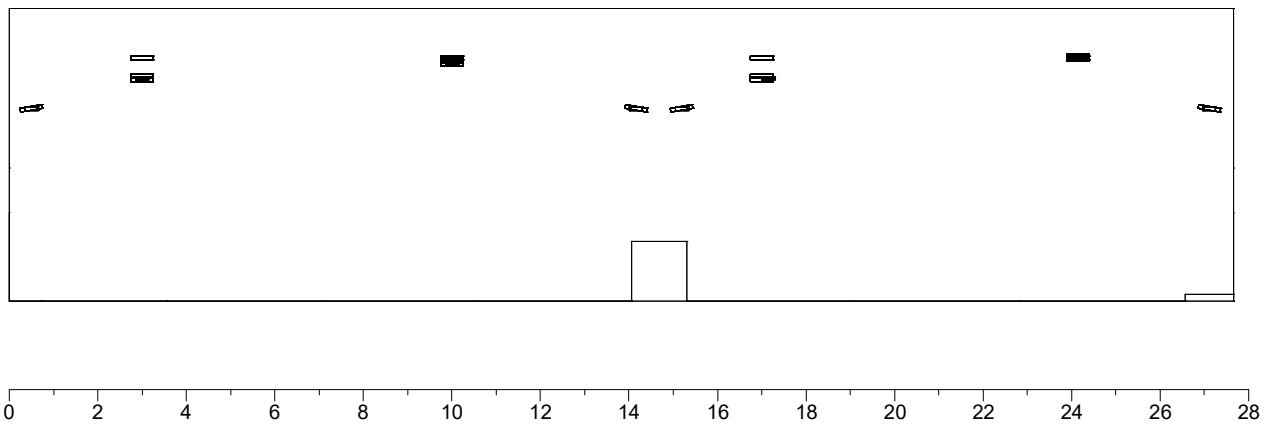
0.05 %

2. Viste Ambiente

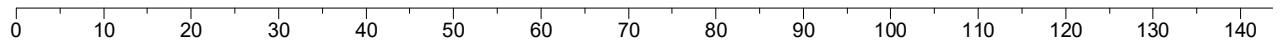
2.1 Vista 2D in Pianta



2.2 Vista Laterale

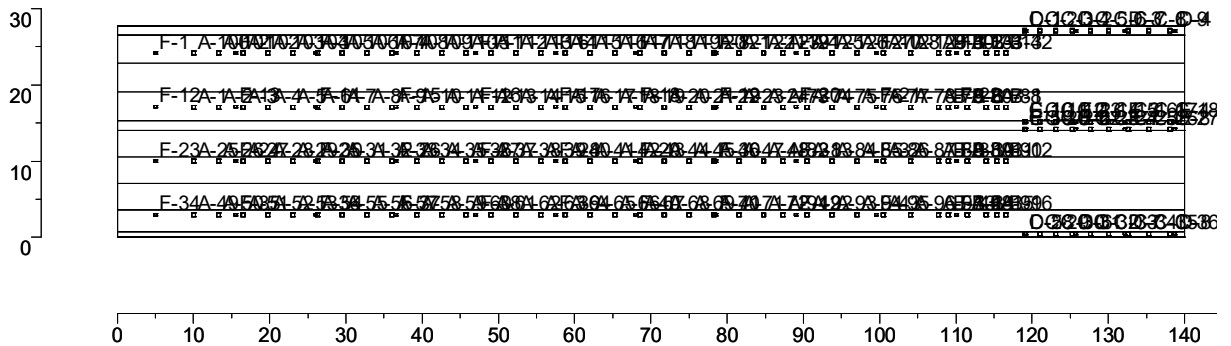


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	10.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-2	100 %	13.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-3	100 %	16.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-4	100 %	19.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-5	100 %	23.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-6	100 %	26.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-7	100 %	29.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-8	100 %	32.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-9	100 %	36.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-10	100 %	39.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-11	100 %	42.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-12	100 %	45.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-13	100 %	49.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-14	100 %	52.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-15	100 %	55.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-16	100 %	58.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-17	100 %	62.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-18	100 %	65.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-19	100 %	68.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-20	100 %	71.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-21	100 %	75.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-22	100 %	78.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-23	100 %	81.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-24	100 %	84.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-25	100 %	10.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-26	100 %	13.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-27	100 %	16.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-28	100 %	19.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-29	100 %	23.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-30	100 %	26.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-31	100 %	29.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-32	100 %	32.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-33	100 %	36.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-34	100 %	39.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-35	100 %	42.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-36	100 %	45.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-37	100 %	49.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-38	100 %	52.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-39	100 %	55.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-40	100 %	58.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-41	100 %	62.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-42	100 %	65.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-43	100 %	68.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-44	100 %	71.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-45	100 %	75.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-46	100 %	78.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-47	100 %	81.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-48	100 %	84.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-49	100 %	10.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-50	100 %	13.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-51	100 %	16.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-52	100 %	19.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-53	100 %	23.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-54	100 %	26.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-55	100 %	29.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-56	100 %	32.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-57	100 %	36.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-58	100 %	39.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-59	100 %	42.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-60	100 %	45.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-61	100 %	49.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-62	100 %	52.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-63	100 %	55.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-64	100 %	58.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-65	100 %	62.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-66	100 %	65.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-67	100 %	68.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-68	100 %	71.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-69	100 %	75.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-70	100 %	78.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-71	100 %	81.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-72	100 %	84.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-73	100 %	87.30	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-74	100 %	90.45	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-75	100 %	93.69	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-76	100 %	97.04	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-77	100 %	100.48	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-78	100 %	104.02	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-79	100 %	107.68	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-80	100 %	111.44	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-81	100 %	115.31	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-82	100 %	87.30	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-83	100 %	90.45	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-84	100 %	93.69	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-85	100 %	97.04	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-86	100 %	100.48	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-87	100 %	104.02	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-88	100 %	107.68	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-89	100 %	111.44	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-90	100 %	115.31	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-91	100 %	87.30	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-92	100 %	90.45	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-93	100 %	93.69	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-94	100 %	97.04	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-95	100 %	100.48	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-96	100 %	104.02	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-97	100 %	107.68	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-98	100 %	111.44	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-99	100 %	115.31	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-100	100 %	10.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-101	100 %	13.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-102	100 %	16.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-103	100 %	19.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-104	100 %	23.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-105	100 %	26.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-106	100 %	29.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-107	100 %	32.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-108	100 %	36.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-109	100 %	39.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-110	100 %	42.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-111	100 %	45.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-112	100 %	49.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-113	100 %	52.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-114	100 %	55.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-115	100 %	58.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-116	100 %	62.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-117	100 %	65.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-118	100 %	68.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-119	100 %	71.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-120	100 %	75.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-121	100 %	78.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-122	100 %	81.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-123	100 %	84.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-124	100 %	87.30	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-125	100 %	90.45	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-126	100 %	93.69	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-127	100 %	97.04	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-128	100 %	100.48	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-129	100 %	104.02	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-130	100 %	107.68	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-131	100 %	111.44	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-132	100 %	115.31	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
B-1	100 %	109.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-2	100 %	111.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-3	100 %	114.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-4	100 %	116.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-5	100 %	109.00	17.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
B-6	100 %	111.50	17.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-7	100 %	114.00	17.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-8	100 %	116.50	17.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-9	100 %	109.00	10.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-10	100 %	111.50	10.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-11	100 %	114.00	10.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-12	100 %	116.50	10.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-13	100 %	109.00	3.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-14	100 %	111.50	3.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-15	100 %	114.00	3.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-16	100 %	116.50	3.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
C-1	100 %	119.00	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-2	100 %	121.00	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-3	100 %	123.10	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-4	100 %	125.31	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-5	100 %	127.62	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-6	100 %	130.05	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-7	100 %	132.60	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-8	100 %	135.28	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-9	100 %	138.10	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-10	100 %	119.00	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-11	100 %	121.00	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-12	100 %	123.10	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-13	100 %	125.31	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-14	100 %	127.62	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-15	100 %	130.05	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-16	100 %	132.60	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-17	100 %	135.28	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-18	100 %	138.10	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-19	100 %	119.00	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-20	100 %	121.00	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-21	100 %	123.10	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-22	100 %	125.31	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-23	100 %	127.62	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-24	100 %	130.05	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-25	100 %	132.60	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-26	100 %	135.28	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-27	100 %	138.10	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-28	100 %	119.00	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-29	100 %	121.00	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-30	100 %	123.10	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-31	100 %	125.31	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-32	100 %	127.62	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-33	100 %	130.05	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-34	100 %	132.60	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-35	100 %	135.28	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-36	100 %	138.10	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
D-1	100 %	119.20	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
D-2	100 %	125.70	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
D-3	100 %	132.20	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
D-4	100 %	138.70	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
D-5	100 %	119.20	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
D-6	100 %	125.70	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
D-7	100 %	132.20	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
D-8	100 %	138.70	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
E-1	100 %	119.20	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
E-2	100 %	125.70	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
E-3	100 %	132.20	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
E-4	100 %	138.70	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
E-5	100 %	119.20	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
E-6	100 %	125.70	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
E-7	100 %	132.20	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
E-8	100 %	138.70	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
F-1	100 %	5.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-2	100 %	15.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-3	100 %	26.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-4	100 %	36.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-5	100 %	47.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-6	100 %	57.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-7	100 %	68.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
F-8	100 %	78.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-9	100 %	89.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-10	100 %	99.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-11	100 %	110.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-12	100 %	5.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-13	100 %	15.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-14	100 %	26.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-15	100 %	36.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-16	100 %	47.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-17	100 %	57.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-18	100 %	68.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-19	100 %	78.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-20	100 %	89.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-21	100 %	99.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-22	100 %	110.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-23	100 %	5.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-24	100 %	15.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-25	100 %	26.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-26	100 %	36.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-27	100 %	47.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-28	100 %	57.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-29	100 %	68.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-30	100 %	78.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-31	100 %	89.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-32	100 %	99.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-33	100 %	110.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-34	100 %	5.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-35	100 %	15.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-36	100 %	26.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-37	100 %	36.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-38	100 %	47.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-39	100 %	57.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-40	100 %	68.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-41	100 %	78.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-42	100 %	89.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-43	100 %	99.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-44	100 %	110.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
A-1		Radiant 8XXL_128D700_W218A	100 %	10.00	17.00	5.00	0.0	9.0	0.0	9.21	17.00	0.00	0.0
A-2		Radiant 8XXL_128D700_W218A	100 %	13.25	17.00	5.00	0.0	9.0	0.0	12.46	17.00	0.00	0.0
A-3		Radiant 8XXL_128D700_W218A	100 %	16.50	17.00	5.00	0.0	9.0	0.0	15.71	17.00	0.00	0.0
A-4		Radiant 8XXL_128D700_W218A	100 %	19.75	17.00	5.00	0.0	9.0	0.0	18.96	17.00	0.00	0.0
A-5		Radiant 8XXL_128D700_W218A	100 %	23.00	17.00	5.00	0.0	9.0	0.0	22.21	17.00	0.00	0.0
A-6		Radiant 8XXL_128D700_W218A	100 %	26.25	17.00	5.00	0.0	9.0	0.0	25.46	17.00	0.00	0.0
A-7		Radiant 8XXL_128D700_W218A	100 %	29.50	17.00	5.00	0.0	9.0	0.0	28.71	17.00	0.00	0.0
A-8		Radiant 8XXL_128D700_W218A	100 %	32.75	17.00	5.00	0.0	9.0	0.0	31.96	17.00	0.00	0.0
A-9		Radiant 8XXL_128D700_W218A	100 %	36.00	17.00	5.00	0.0	9.0	0.0	35.21	17.00	0.00	0.0
A-10		Radiant 8XXL_128D700_W218A	100 %	39.25	17.00	5.00	0.0	9.0	0.0	38.46	17.00	0.00	0.0
A-11		Radiant 8XXL_128D700_W218A	100 %	42.50	17.00	5.00	0.0	9.0	0.0	41.71	17.00	0.00	0.0
A-12		Radiant 8XXL_128D700_W218A	100 %	45.75	17.00	5.00	0.0	9.0	0.0	44.96	17.00	0.00	0.0
A-13		Radiant 8XXL_128D700_W218A	100 %	49.00	17.00	5.00	0.0	9.0	0.0	48.21	17.00	0.00	0.0
A-14		Radiant 8XXL_128D700_W218A	100 %	52.25	17.00	5.00	0.0	9.0	0.0	51.46	17.00	0.00	0.0
A-15		Radiant 8XXL_128D700_W218A	100 %	55.50	17.00	5.00	0.0	9.0	0.0	54.71	17.00	0.00	0.0
A-16		Radiant 8XXL_128D700_W218A	100 %	58.75	17.00	5.00	0.0	9.0	0.0	57.96	17.00	0.00	0.0
A-17		Radiant 8XXL_128D700_W218A	100 %	62.00	17.00	5.00	0.0	9.0	0.0	61.21	17.00	0.00	0.0
A-18		Radiant 8XXL_128D700_W218A	100 %	65.25	17.00	5.00	0.0	9.0	0.0	64.46	17.00	0.00	0.0
A-19		Radiant 8XXL_128D700_W218A	100 %	68.50	17.00	5.00	0.0	9.0	0.0	67.71	17.00	0.00	0.0
A-20		Radiant 8XXL_128D700_W218A	100 %	71.75	17.00	5.00	0.0	9.0	0.0	70.96	17.00	0.00	0.0
A-21		Radiant 8XXL_128D700_W218A	100 %	75.00	17.00	5.00	0.0	9.0	0.0	74.21	17.00	0.00	0.0
A-22		Radiant 8XXL_128D700_W218A	100 %	78.25	17.00	5.00	0.0	9.0	0.0	77.46	17.00	0.00	0.0
A-23		Radiant 8XXL_128D700_W218A	100 %	81.50	17.00	5.00	0.0	9.0	0.0	80.71	17.00	0.00	0.0
A-24		Radiant 8XXL_128D700_W218A	100 %	84.75	17.00	5.00	0.0	9.0	0.0	83.96	17.00	0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi x[m] y[m] z[m]	Rotazione Apparecchi rx[°] ry[°] rz[°]	Puntamenti x[m] y[m] z[m]	R.Asse [°]
	F-35	Radiant 8S 16D700_W244S	100 %	15.50 3.00 5.00	0.0 -0.0 0.0	15.50 3.00 0.00	0.0
	F-36	Radiant 8S 16D700_W244S	100 %	26.00 3.00 5.00	0.0 -0.0 0.0	26.00 3.00 0.00	0.0
	F-37	Radiant 8S 16D700_W244S	100 %	36.50 3.00 5.00	0.0 -0.0 0.0	36.50 3.00 0.00	0.0
	F-38	Radiant 8S 16D700_W244S	100 %	47.00 3.00 5.00	0.0 -0.0 0.0	47.00 3.00 0.00	0.0
	F-39	Radiant 8S 16D700_W244S	100 %	57.50 3.00 5.00	0.0 -0.0 0.0	57.50 3.00 0.00	0.0
	F-40	Radiant 8S 16D700_W244S	100 %	68.00 3.00 5.00	0.0 -0.0 0.0	68.00 3.00 0.00	0.0
	F-41	Radiant 8S 16D700_W244S	100 %	78.50 3.00 5.00	0.0 -0.0 0.0	78.50 3.00 0.00	0.0
	F-42	Radiant 8S 16D700_W244S	100 %	89.00 3.00 5.00	0.0 -0.0 0.0	89.00 3.00 0.00	0.0
	F-43	Radiant 8S 16D700_W244S	100 %	99.50 3.00 5.00	0.0 -0.0 0.0	99.50 3.00 0.00	0.0
	F-44	Radiant 8S 16D700_W244S	100 %	110.00 3.00 5.00	0.0 -0.0 0.0	110.00 3.00 0.00	0.0

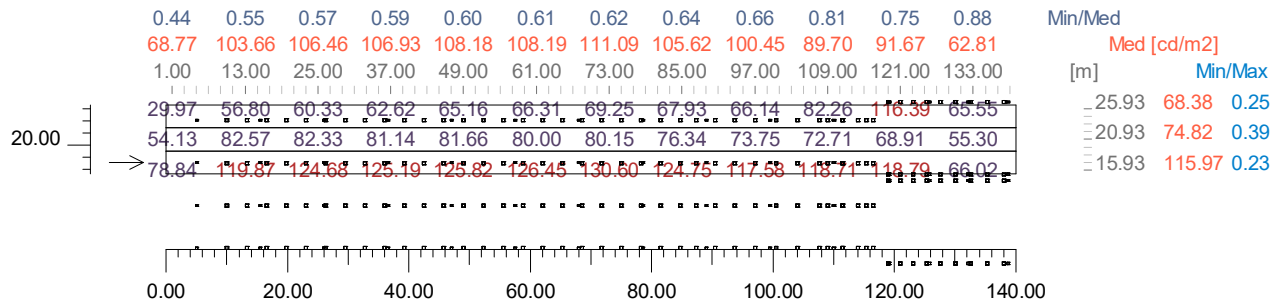
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 5 - Autostrada A14 - Oss. 1 [x=-60.00 y=17.18] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	97.87 cd/m2	28.79 cd/m2	164.81 cd/m2	0.29	0.17	0.59

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

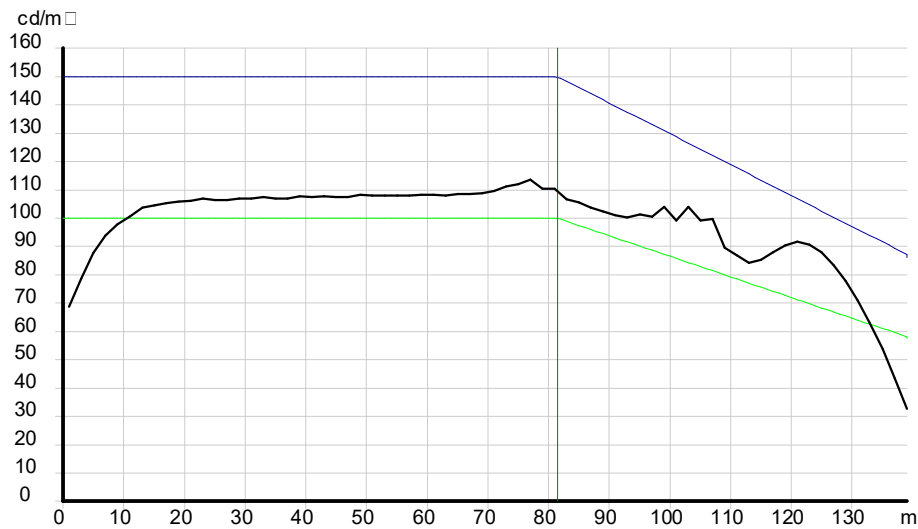


4.2 Curva di Luminanza su: 5 - Autostrada A14 - Oss. 1 [x=-60.00 y=17.18] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	97.87 cd/m ²	28.79 cd/m ²	164.81 cd/m ²	0.29	0.17	0.59

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

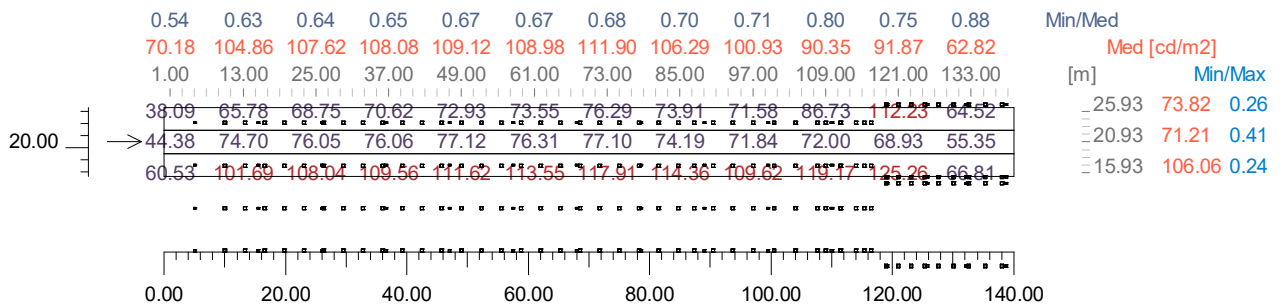


4.3 Valori delle Luminanze su: 5 - Autostrada A14 - Oss. 2 [x=-60.00 y=20.93] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	98.66 cd/m2	28.80 cd/m2	163.67 cd/m2	0.29	0.18	0.60

Osservatore
Tipo Calcolo

[x=-60.00 y=20.93 z=1.50] m => [x=30.00 y=20.93 z=0.00] m
Dir.+Indir. (Accuratezza:2)

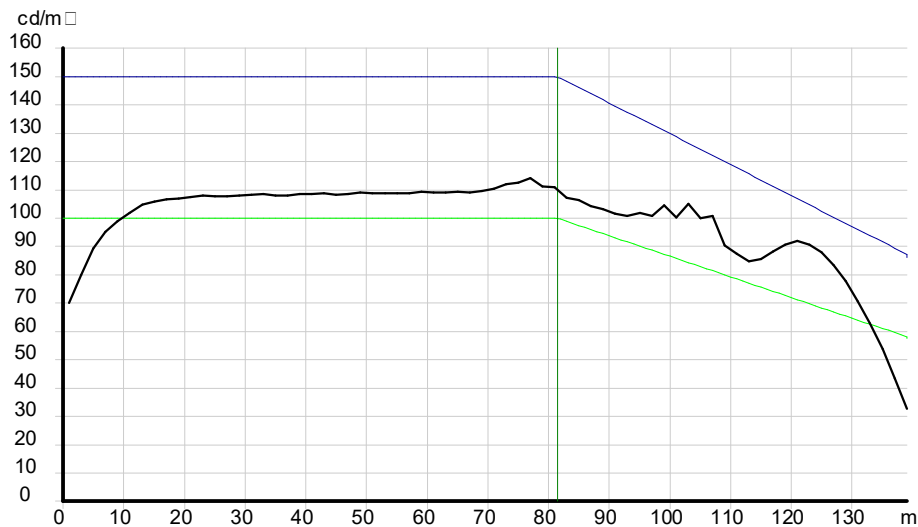


4.4 Curva di Luminanza su: 5 - Autostrada A14 - Oss. 2 [x=-60.00 y=20.93] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	98.66 cd/m ²	28.80 cd/m ²	163.67 cd/m ²	0.29	0.18	0.60

Osservatore
Tipo Calcolo

[x=-60.00 y=20.93 z=1.50] m => [x=30.00 y=20.93 z=0.00] m
Dir.+Indir. (Accuratezza:2)

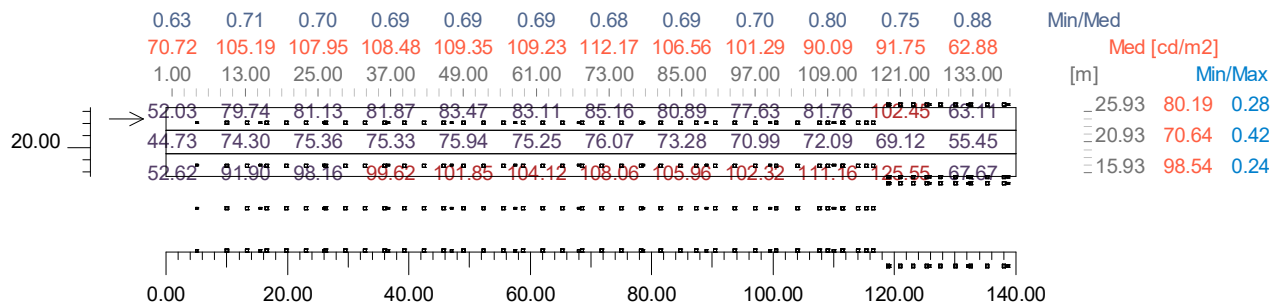


4.5 Valori delle Luminanze su: 5 - Autostrada A14 - Oss. 3 [x=-60.00 y=24.68] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	98.87 cd/m ²	28.79 cd/m ²	156.75 cd/m ²	0.29	0.18	0.63

Osservatore
Tipo Calcolo

[x=-60.00 y=24.68 z=1.50] m => [x=30.00 y=24.68 z=0.00] m
Dir.+Indir. (Accuratezza:2)

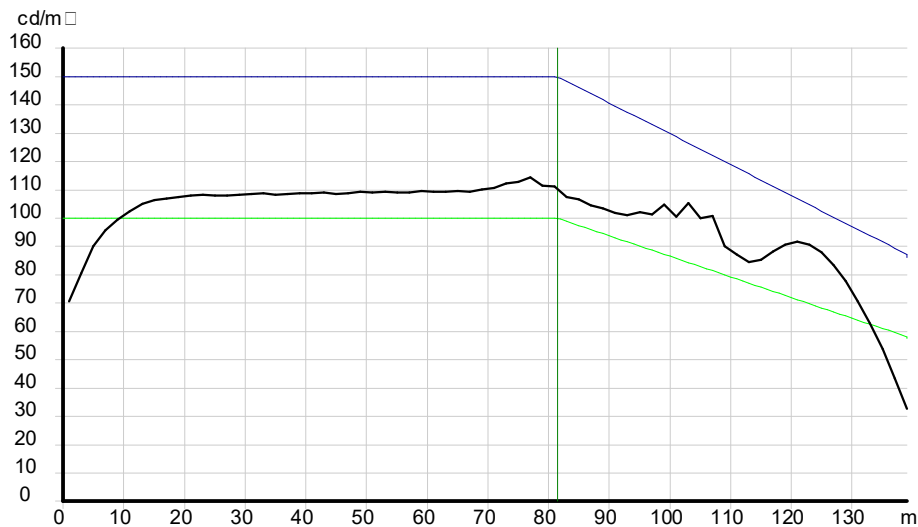


4.6 Curva di Luminanza su: 5 - Autostrada A14 - Oss. 3 [x=-60.00 y=24.68] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	98.87 cd/m ²	28.79 cd/m ²	156.75 cd/m ²	0.29	0.18	0.63

Osservatore
Tipo Calcolo

[x=-60.00 y=24.68 z=1.50] m => [x=30.00 y=24.68 z=0.00] m
Dir.+Indir. (Accuratezza:2)



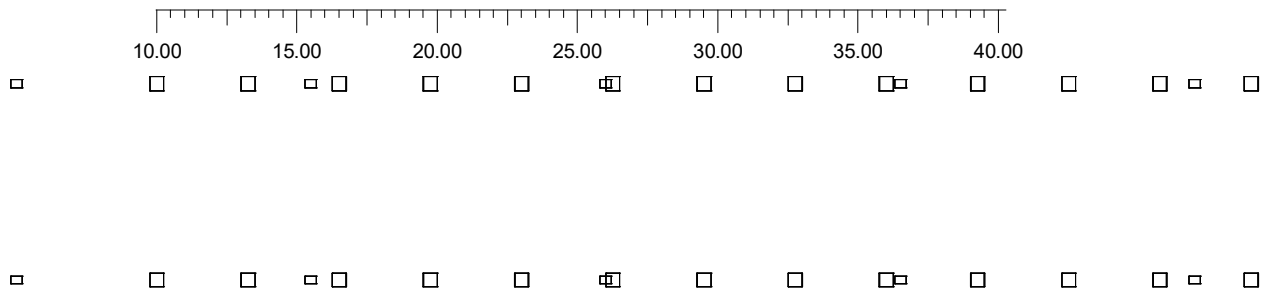
4.7 Valori delle Luminanze su: 5 - Autostrada A14 [Lpd (10-40m) (Autostrada - Sezione 2)] - Oss. 1 [x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	105.93 cd/m ²	53.79 cd/m ²	158.59 cd/m ²	0.51	0.34	0.67

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

	0.54	0.55	0.56	0.57	0.57	0.58	0.58	0.59	Min/Med	Med [cd/m ²]	Min/Max
	100.45	104.61	105.92	106.85	106.41	106.98	107.06	107.70			
	11.00	15.00	19.00	23.00	27.00	31.00	35.00	39.00	[m]		
25.00	53.79	57.36	59.60	60.67	60.96	61.61	62.37	63.86	25.93	60.17	0.84
□	85.26	89.64	92.73	94.35	95.36	96.65	97.72	99.58	24.68	94.15	0.86
	124.21	128.62	132.35	133.48	132.94	133.20	134.65	136.14	23.43	132.20	0.91
20.00	113.78	115.92	117.64	117.28	114.49	113.36	113.64	114.43	22.18	115.23	0.95
□	78.83	81.99	83.55	83.56	82.17	81.50	81.78	82.50	20.93	82.18	0.94
	74.08	78.48	79.85	80.45	79.71	80.30	80.27	80.92	19.68	79.43	0.92
15.00	104.02	109.33	109.30	110.23	110.14	111.88	111.24	110.84	18.43	109.76	0.93
□	152.37	157.27	155.79	157.55	157.56	158.55	156.99	156.50	17.18	156.76	0.96
	117.70	122.87	122.57	124.06	124.32	125.82	124.88	124.52	15.93	123.52	0.94



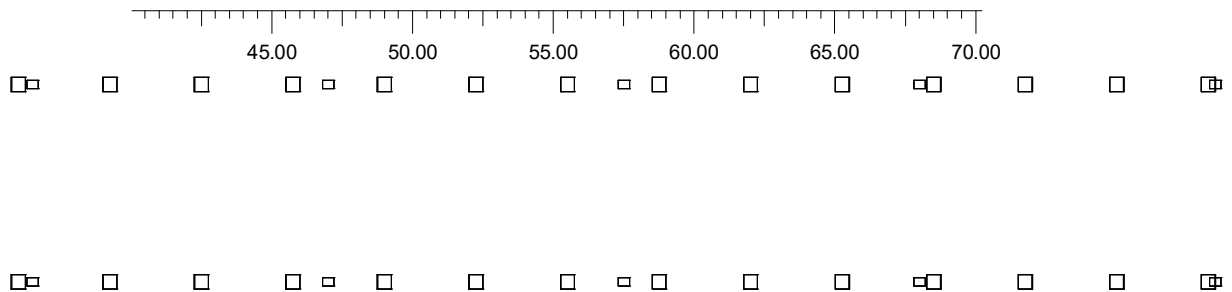
4.8 Valori delle Luminanze su: 5 - Autostrada A14 [Lpd (40-70m) (Autostrada - Sezione 2)] - Oss. 1 [x=-

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	108.05 cd/m ²	63.25 cd/m ²	158.93 cd/m ²	0.59	0.40	0.68

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

	0.59	0.60	0.60	0.60	0.61	0.61	0.62	0.62	Min/Med	Med [cd/m ²]	Min/Max
	107.57	107.44	108.18	107.89	107.88	108.19	108.60	108.91			
	41.00	45.00	49.00	53.00	57.00	61.00	65.00	69.00	[m]		
25.00	63.25	64.36	65.16	65.26	65.35	66.31	67.56	67.55	-25.93	65.53	0.94
	99.35	100.55	101.90	102.74	102.91	104.18	105.78	107.05	-24.68	103.03	0.93
	134.50	136.05	136.35	135.88	135.27	136.79	137.94	138.20	-23.43	136.22	0.97
22.50	111.71	112.47	112.30	110.11	108.82	109.29	110.07	108.09	-22.18	110.17	0.96
	80.87	81.42	81.66	80.50	79.69	80.00	80.70	79.76	-20.93	80.47	0.97
	80.52	80.58	81.09	80.40	80.67	80.62	81.09	80.56	-19.68	80.65	0.99
20.00	112.55	111.06	111.69	111.81	112.86	112.56	111.86	112.72	-18.43	112.19	0.98
	158.93	155.87	157.69	158.10	158.81	157.49	156.64	158.88	-17.18	157.87	0.98
	126.43	124.58	125.82	126.24	127.07	126.45	125.78	127.40	-15.93	126.31	0.98
17.50											



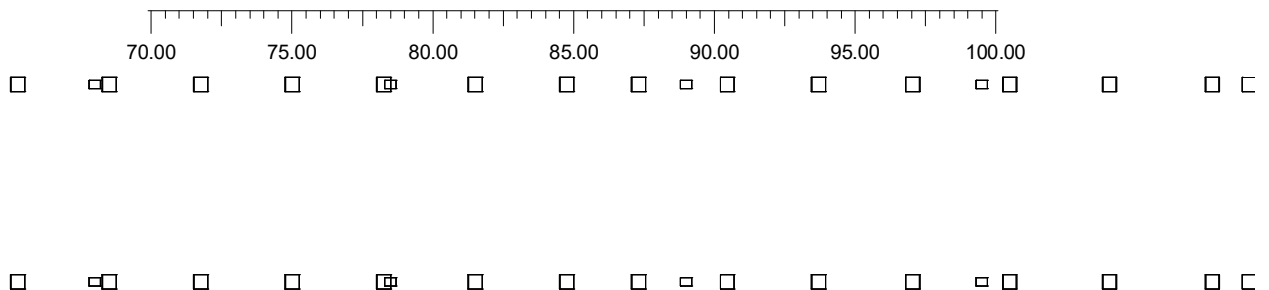
4.9 Valori delle Luminanze su: 5 - Autostrada A14 [Lpd (70-100m) (Autostrada - Sezione 2)] - Oss. 1 [x=

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	106.20 cd/m2	64.98 cd/m2	164.81 cd/m2	0.61	0.39	0.64

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

	0.63	0.63	0.63	0.64	0.65	0.65	0.66	0.67	Min/Med	Med [cd/m2]	Min/Max
	109.68	111.89	110.44	106.80	103.86	101.10	101.33	104.00			
	71.00	75.00	79.00	83.00	87.00	91.00	95.00	99.00	[m]		
25.00	68.76	70.22	69.49	68.56	67.98	65.86	66.69	69.63	-25.93	68.28	0.90
	108.28	110.80	109.28	107.19	104.87	102.99	104.20	107.15	-24.68	106.71	0.88
	140.22	141.49	137.41	134.15	130.42	126.85	126.84	127.62	-23.43	133.01	0.86
22.50	109.60	110.08	106.02	103.10	101.25	96.54	96.00	97.26	-22.18	102.31	0.86
	80.54	81.26	79.90	77.99	76.48	73.79	73.53	75.34	-20.93	77.26	0.89
	81.43	83.06	83.04	80.51	78.61	75.81	75.68	78.33	-19.68	79.66	0.90
20.00	113.14	115.95	116.10	111.37	107.44	104.63	105.00	108.90	-18.43	110.64	0.89
	158.02	160.12	161.60	153.34	147.21	145.10	145.15	148.06	-17.18	153.15	0.86
	127.11	131.03	131.14	124.99	120.53	118.27	118.89	123.74	-15.93	124.77	0.89
17.50											

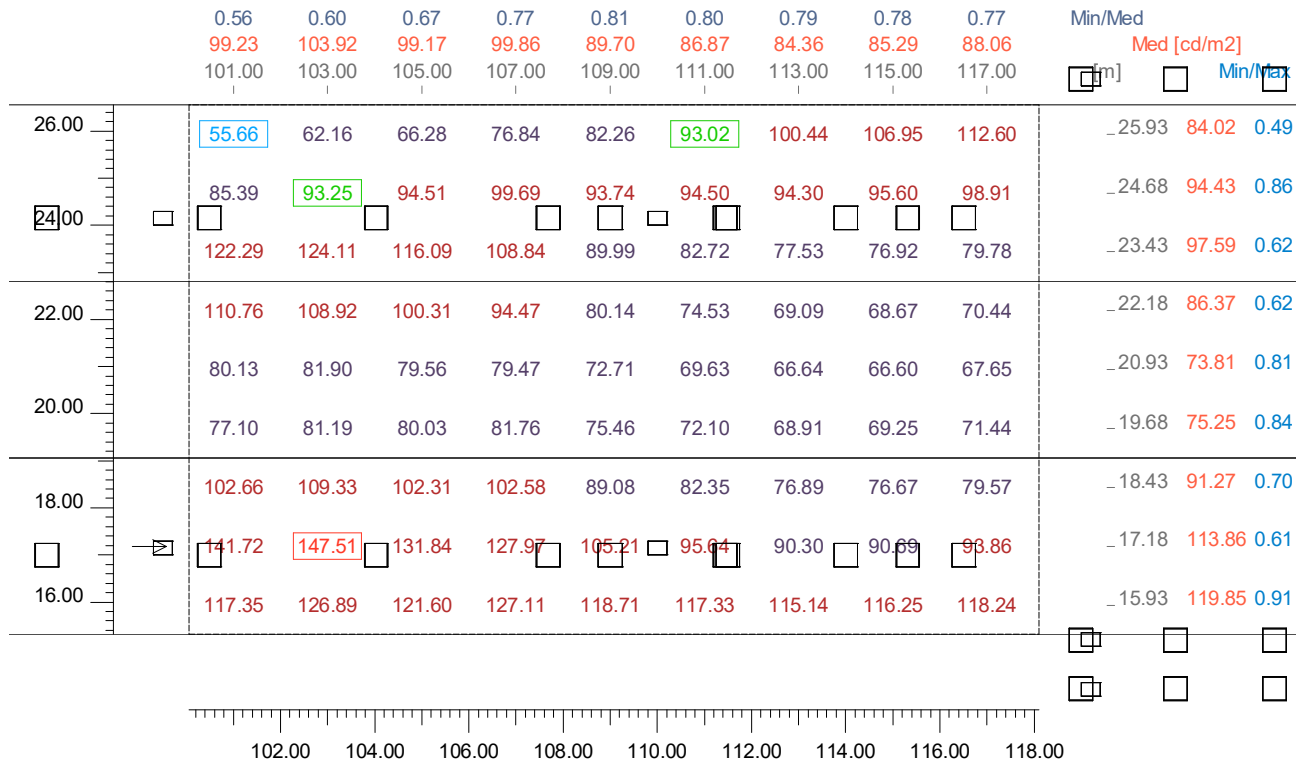


4.10 Valori delle Luminanze su: 5 - Autostrada A14 [Lpd (110-117m) (Autostrada - Sezione 2)] - Oss. 1 [

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	92.94 cd/m2	55.66 cd/m2	147.51 cd/m2	0.60	0.38	0.63

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)

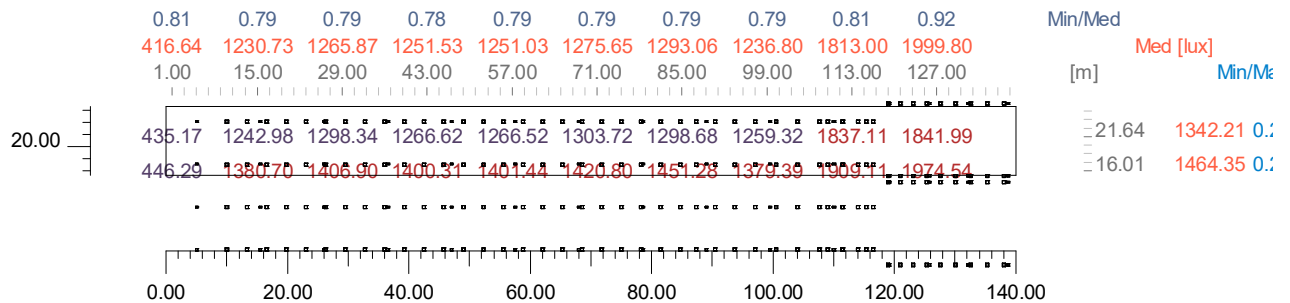


4.11 Valori di Illuminamento su: 5 - Autostrada A14

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1348.11 lx	337.06 lx	2363.12 lx	0.25	0.14	0.57

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



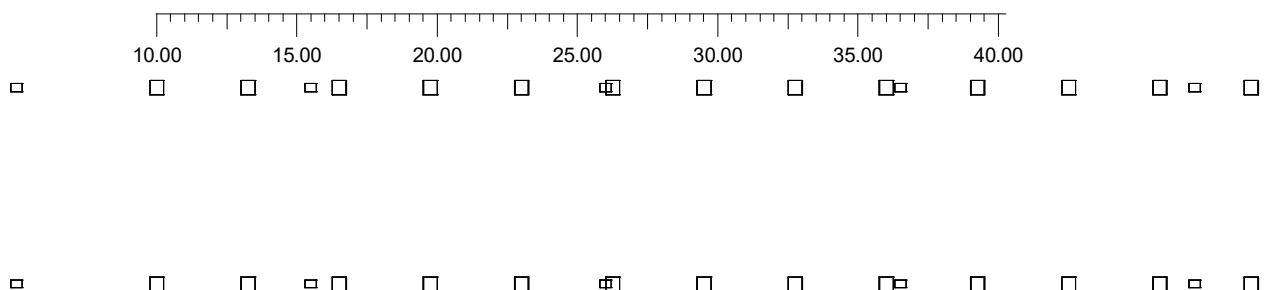
4.12 Valori di Illuminamento su: 5 - Autostrada A14 [Lpd (10-40m) (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1238.43 lx	860.98 lx	1422.60 lx	0.70	0.61	0.87

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	0.80	0.79	0.79	0.79	0.79	0.79	0.79	0.79	Min/Med	Med [lux]	Min/Max
	1082.69	1230.73	1260.58	1263.77	1242.35	1248.44	1269.73	1267.08	[m]		
	11.00	15.00	19.00	23.00	27.00	31.00	35.00	39.00			
25.00	860.98	977.76	1000.56	992.99	979.02	991.01	1006.95	1000.34	-25.86	979.11	0.87
	940.27	1069.57	1089.59	1086.48	1080.70	1085.83	1101.52	1088.66	-24.45	1072.97	0.87
	1027.69	1164.51	1194.38	1188.32	1172.04	1181.39	1203.31	1194.63	-23.04	1170.03	0.87
	1099.27	1242.98	1287.90	1288.23	1261.58	1264.23	1287.62	1298.52	-21.64	1258.76	0.87
20.00	1143.38	1284.50	1329.27	1343.85	1321.77	1312.72	1327.69	1349.44	-20.23	1308.42	0.87
	1202.00	1373.02	1402.11	1405.88	1375.88	1390.03	1412.53	1408.68	-18.83	1376.80	0.87
	1180.10	1352.78	1376.26	1392.60	1361.79	1365.13	1395.65	1385.86	-17.42	1357.74	0.87
	1207.84	1380.70	1404.60	1411.84	1386.05	1397.21	1422.60	1410.54	-16.01	1383.57	0.87



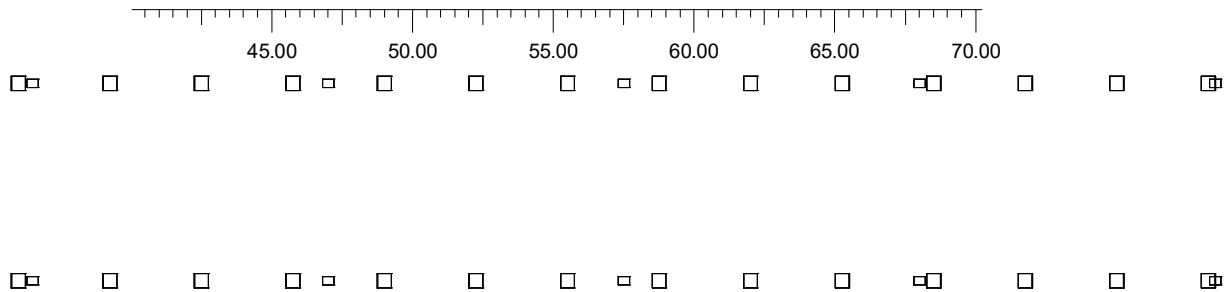
4.13 Valori di Illuminamento su: 5 - Autostrada A14 [Lpd (40-70m) (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1257.64 lx	977.73 lx	1421.78 lx	0.78	0.69	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	0.79	0.79	0.79	0.79	0.79	0.79	0.79	0.78	Min/Med	Med [lux]	Min/Max
	1257.95	1267.78	1265.53	1240.30	1251.03	1269.28	1267.74	1256.79	[m]		
	41.00	45.00	49.00	53.00	57.00	61.00	65.00	69.00			
25.00	999.48	1005.89	994.89	977.73	991.90	1007.70	1001.48	984.76	-25.86	993.85	0.88
	1093.86	1093.82	1087.29	1079.82	1086.04	1102.48	1088.45	1093.15	-24.45	1090.28	0.88
22.50	1191.28	1200.16	1189.09	1171.49	1181.59	1203.69	1195.62	1183.78	-23.04	1187.91	0.88
	1272.43	1295.75	1290.14	1259.37	1266.52	1286.65	1299.07	1272.28	-21.64	1277.32	0.88
20.00	1314.40	1338.15	1346.39	1318.34	1316.95	1325.55	1349.74	1333.11	-20.23	1327.96	0.88
	1402.91	1411.08	1408.32	1373.34	1393.52	1410.72	1409.02	1394.44	-18.83	1398.24	0.88
17.50	1380.08	1384.02	1394.12	1359.27	1370.25	1395.64	1386.65	1386.24	-17.42	1379.88	0.88
	1409.18	1413.28	1414.02	1383.01	1401.44	1421.78	1410.88	1406.55	-16.01	1405.66	0.88



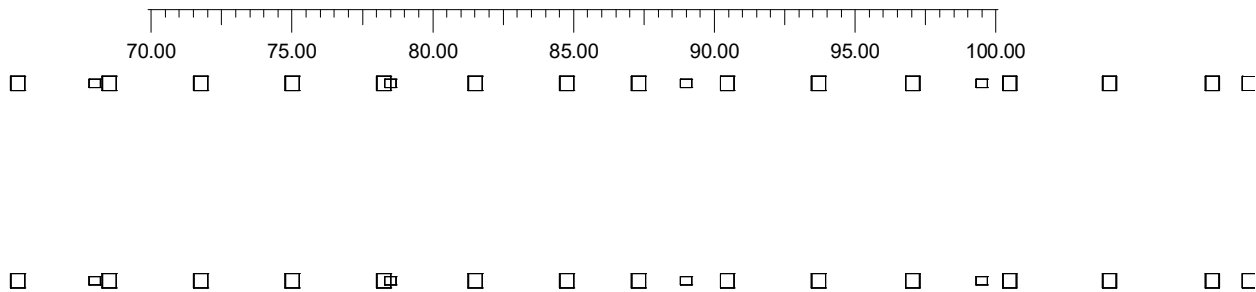
4.14 Valori di Illuminamento su: 5 - Autostrada A14 [Lpd (70-100m) (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1268.12 lx	951.32 lx	1474.69 lx	0.75	0.65	0.86

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	0.79	0.78	0.78	0.79	0.79	0.78	0.79	0.79	Min/Med	Med [lux]	Min/Max
	1275.65	1288.18	1289.77	1302.51	1293.94	1231.39	1197.01	1236.80			
	71.00	75.00	79.00	83.00	87.00	91.00	95.00	99.00	[m]		
25.00	1013.83	1011.00	1009.52	1030.78	1027.13	965.58	951.32	982.76	-25.86	1001.57	0.86
□	102.47	1106.93	1114.21	1131.11	1113.06	1071.00	1041.19	1078.09	-24.45	1098.09	0.86
22.50	1208.56	1211.35	1209.35	1229.81	1221.60	1159.32	1136.98	1178.01	-23.04	1197.30	0.86
□	1303.72	1313.89	1305.47	1320.55	1329.11	1248.54	1218.40	1259.32	-21.64	1288.84	0.86
20.00	1345.42	1370.91	1373.88	1373.36	1373.81	1309.16	1269.08	1296.61	-20.23	1339.90	0.86
□	1418.21	1433.22	1435.31	1449.37	1443.62	1365.37	1325.26	1371.59	-18.83	1410.50	0.86
17.50	1392.20	1419.53	1422.79	1429.04	1405.65	1356.03	1301.98	1348.63	-17.42	1391.40	0.86
□	1420.80	1438.66	1447.66	1456.10	1437.55	1376.11	1331.89	1379.39	-16.01	1417.40	0.86

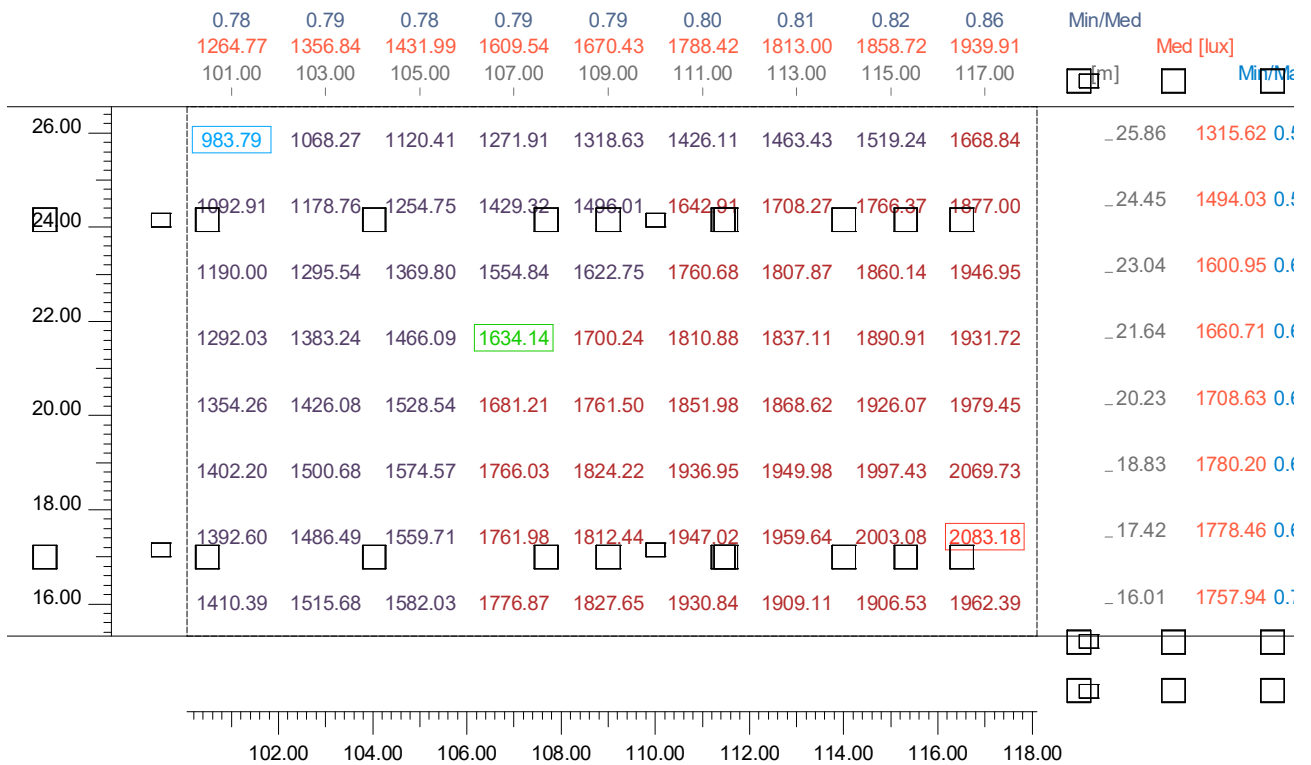


4.15 Valori di Illuminamento su: 5 - Autostrada A14 [Lpd (110-117m) (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1637.07 lx	983.79 lx	2083.18 lx	0.60	0.47	0.79

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

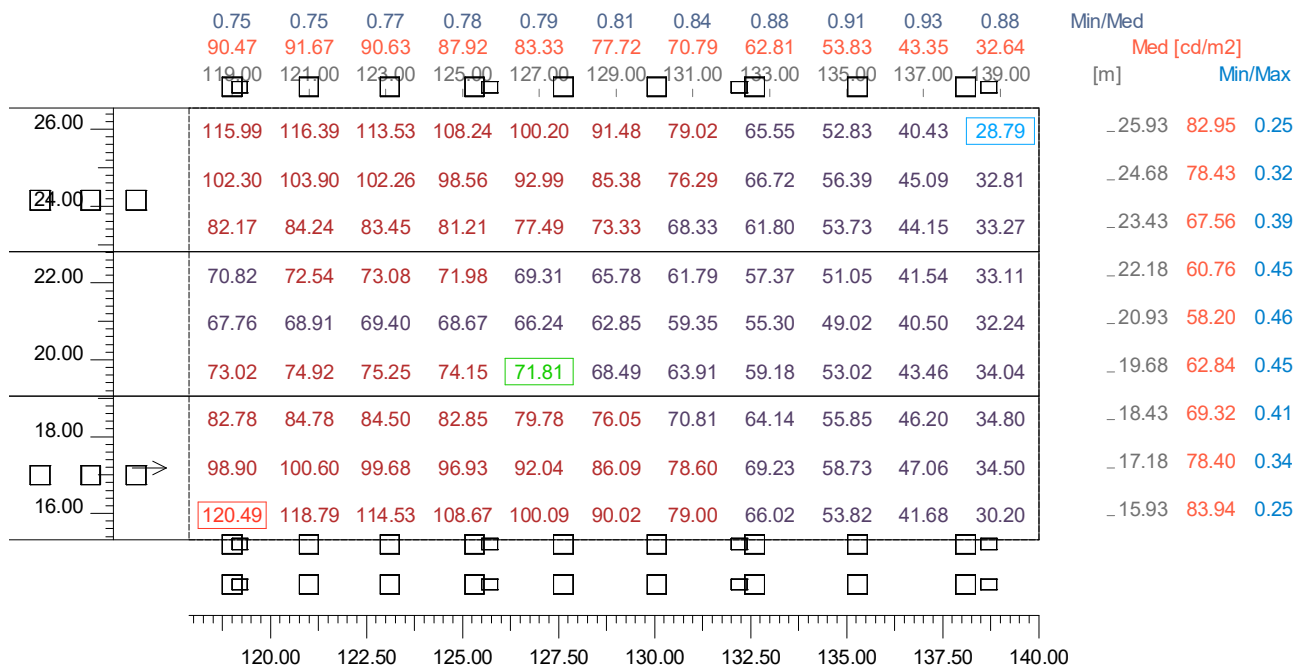


4.16 Valori delle Luminanze su: 5 - Autostrada A14 [Lpd (117-140m) (Autostrada - Sezione 1)] - Oss. 1 [

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	71.38 cd/m ²	28.79 cd/m ²	120.49 cd/m ²	0.40	0.24	0.59

Osservatore
Tipo Calcolo

[x=-60.00 y=17.18 z=1.50] m => [x=30.00 y=17.18 z=0.00] m
Dir.+Indir. (Accuratezza:2)



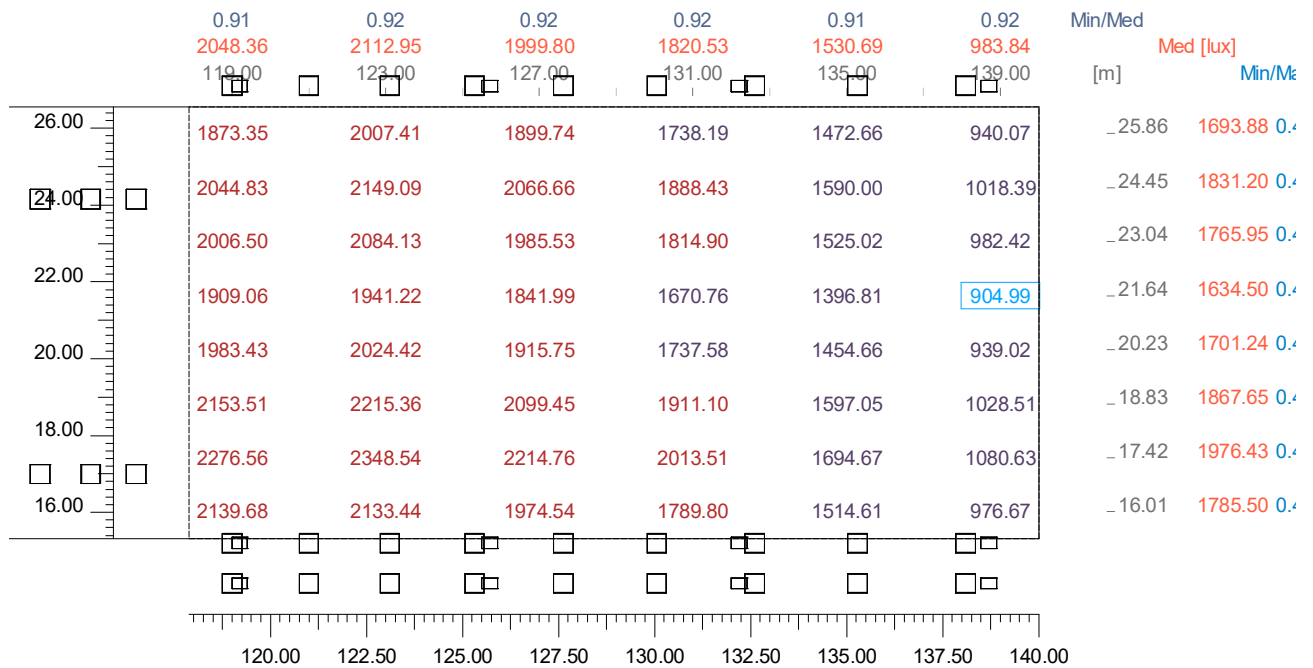
□ □ □

4.17 Valori di Illuminamento su: 5 - Autostrada A14 [Lpd (117-140m) (Autostrada - Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1782.04 lx	904.99 lx	2363.12 lx	0.51	0.38	0.75

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



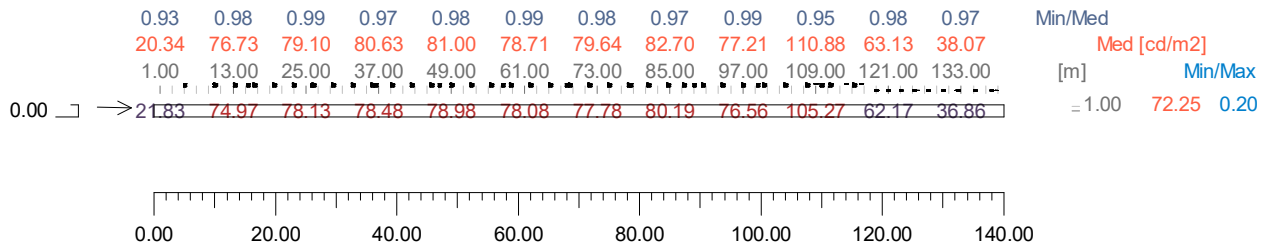
□ □ □

4.18 Valori delle Luminanze su: Parete Virtuale Sinistra - Oss. 1 (Lambert) [x=-60.00 y=2.14] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	73.87 cd/m2	18.86 cd/m2	116.49 cd/m2	0.26	0.16	0.63

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

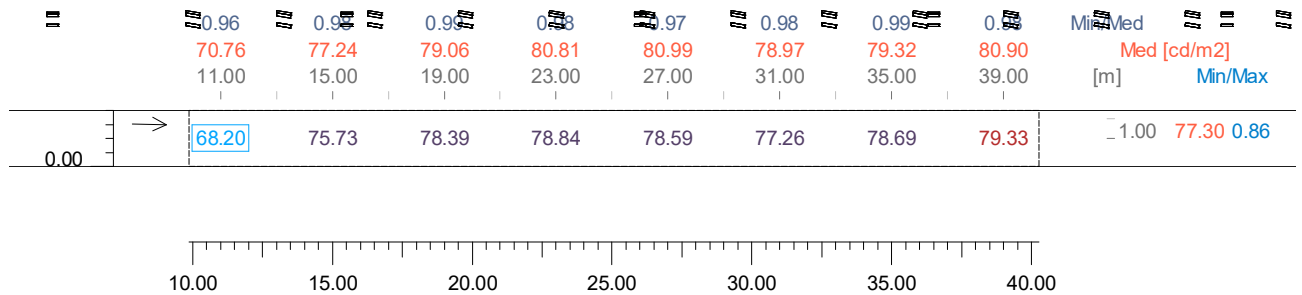


4.19 Valori delle Luminanze su: Parete Virtuale Sinistra [Lps (10-40m) (Autostrada - Sezione 2)] - Oss.

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	79.02 cd/m2	68.20 cd/m2	83.40 cd/m2	0.86	0.82	0.95

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

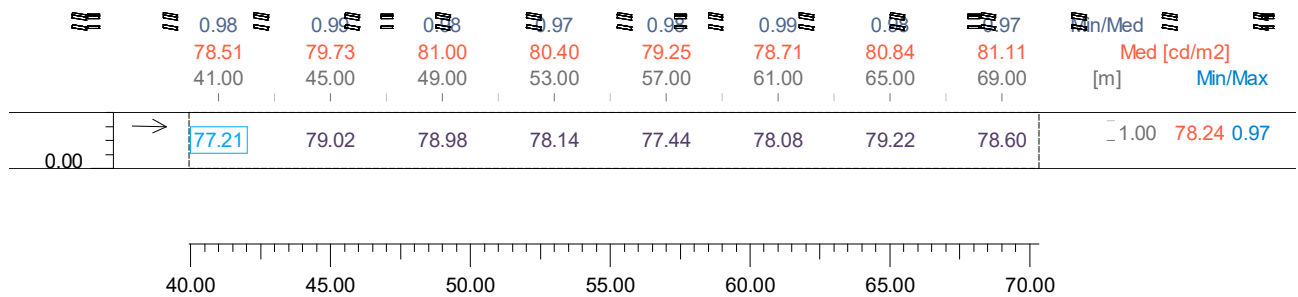


4.20 Valori delle Luminanze su: Parete Virtuale Sinistra [Lps (40-70m) (Autostrada - Sezione 2)] - Oss. 1

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	79.91 cd/m ²	77.21 cd/m ²	83.62 cd/m ²	0.97	0.92	0.96

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

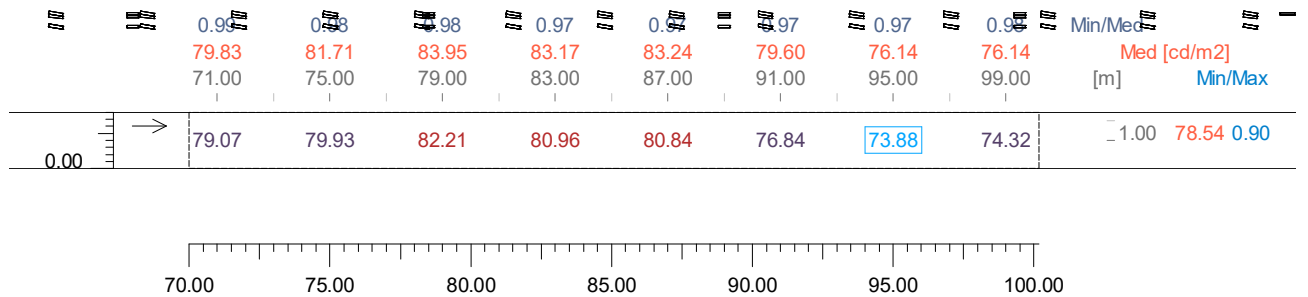


4.21 Valori delle Luminanze su: Parete Virtuale Sinistra [Lps (70-100m) (Autostrada - Sezione 2)] - Oss.

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	80.25 cd/m ²	73.88 cd/m ²	85.80 cd/m ²	0.92	0.86	0.94

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

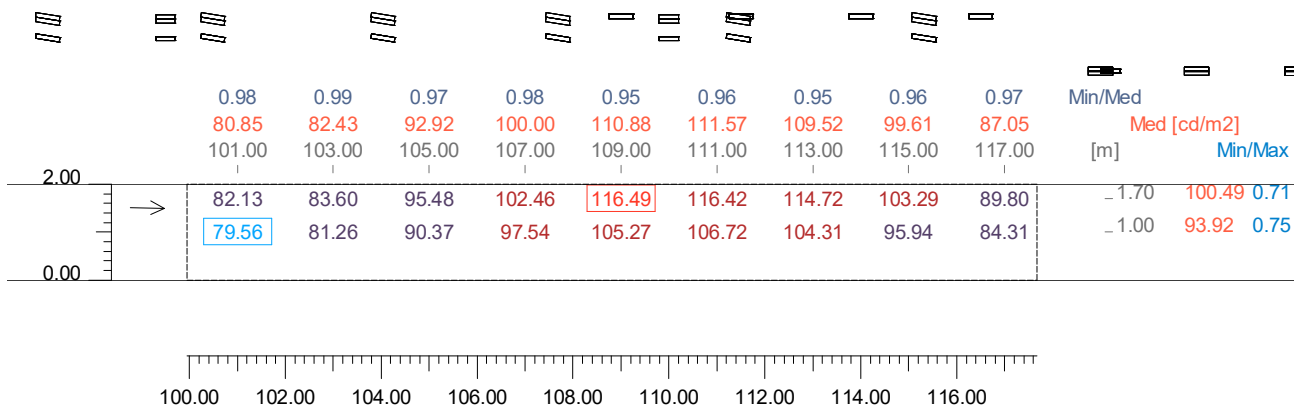


4.22 Valori delle Luminanze su: Parete Virtuale Sinistra [Lps (100-117m) (Autostrada - Sezione 2)] - Oss

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	97.20 cd/m2	79.56 cd/m2	116.49 cd/m2	0.82	0.68	0.83

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

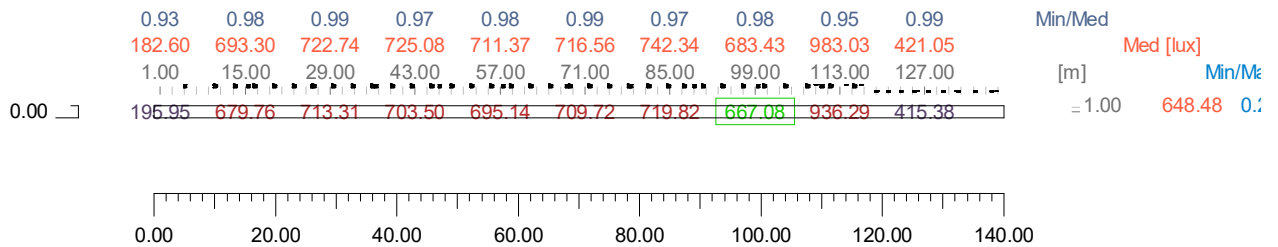


4.23 Valori di Illuminamento su: Parete Virtuale Sinistra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	663.08 lx	169.25 lx	1045.58 lx	0.26	0.16	0.63

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

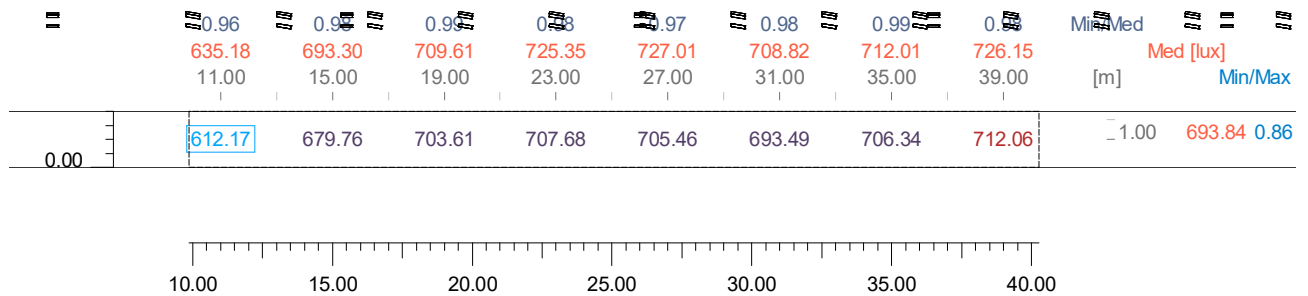


4.24 Valori di Illuminamento su: Parete Virtuale Sinistra [Lps (10-40m) (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	709.25 lx	612.17 lx	748.55 lx	0.86	0.82	0.95

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

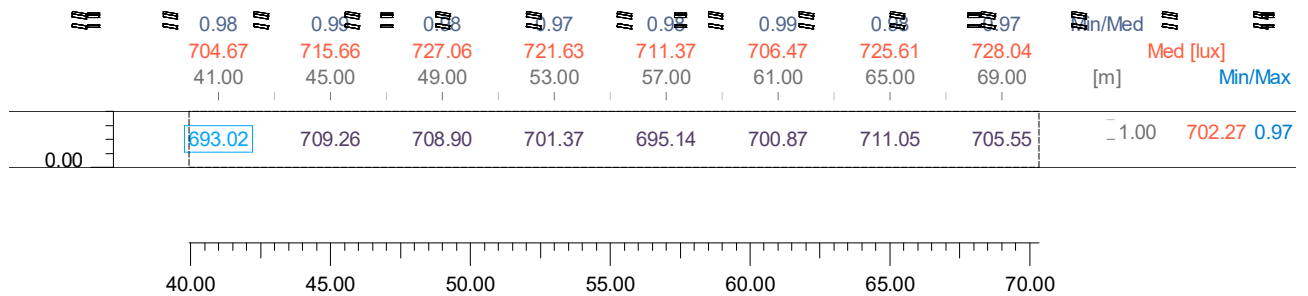


4.25 Valori di Illuminamento su: Parete Virtuale Sinistra [Lps (40-70m) (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	717.30 lx	693.02 lx	750.54 lx	0.97	0.92	0.96

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

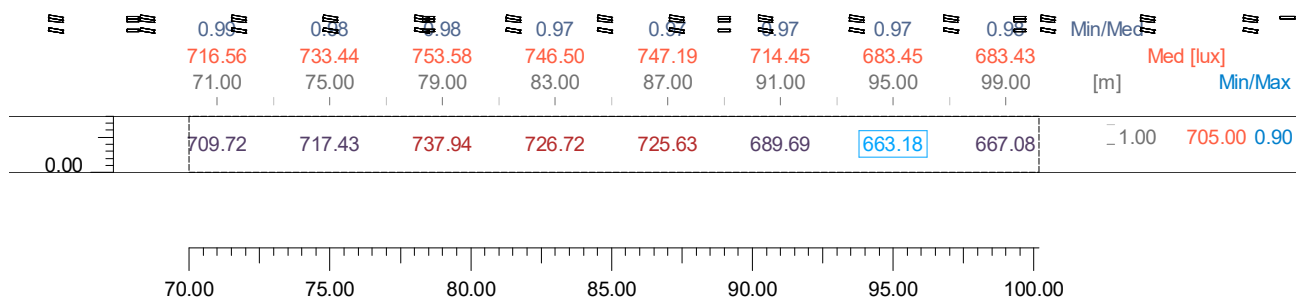


4.26 Valori di Illuminamento su: Parete Virtuale Sinistra [Lps (70-100m) (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	720.35 lx	663.18 lx	770.18 lx	0.92	0.86	0.94

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

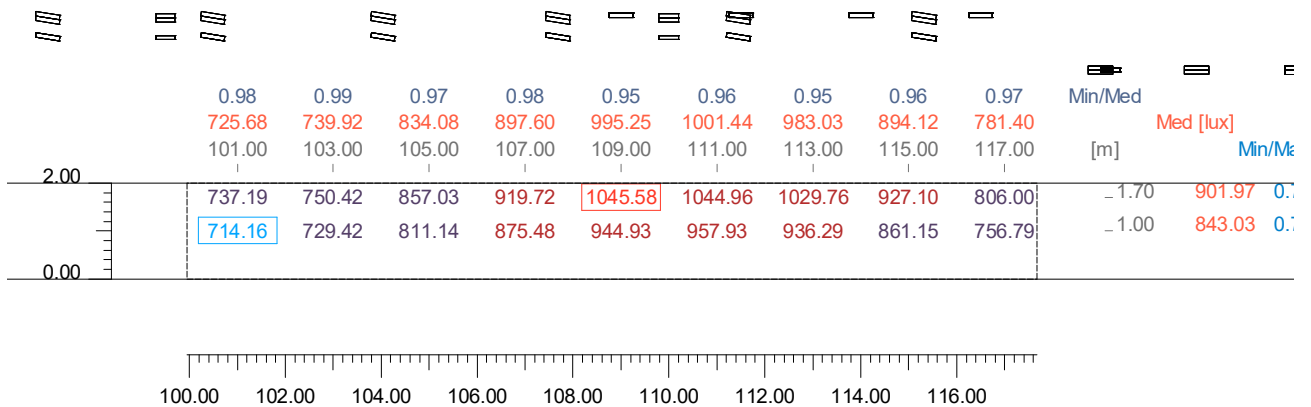


4.27 Valori di Illuminamento su: Parete Virtuale Sinistra [Lps (100-117m) (Autostrada - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	872.50 lx	714.16 lx	1045.58 lx	0.82	0.68	0.83

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

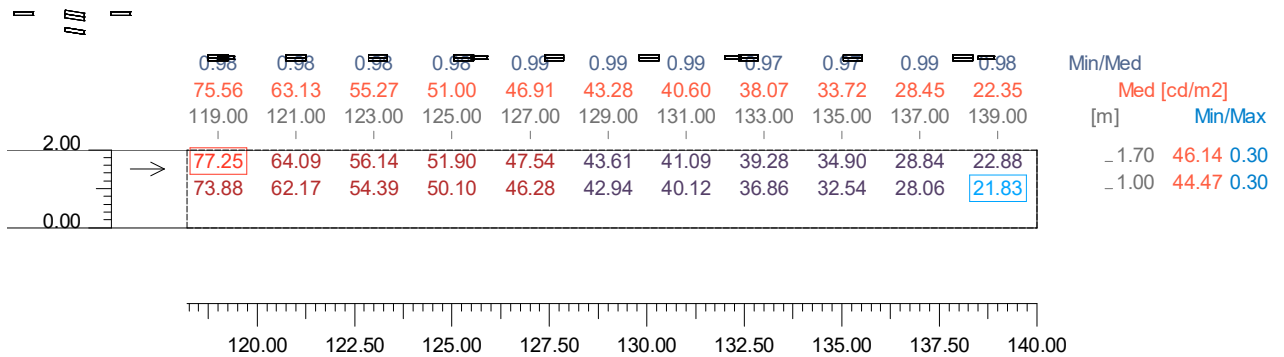


4.28 Valori delle Luminanze su: Parete Virtuale Sinistra [Lps (117-140m) (Autostrada - Sezione 1)] - Oss

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	45.30 cd/m2	21.83 cd/m2	77.25 cd/m2	0.48	0.28	0.59

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=2.14 z=1.50] m => [x=30.00 y=2.14 z=0.00] m
Dir.+Indir. (Accuratezza:2)

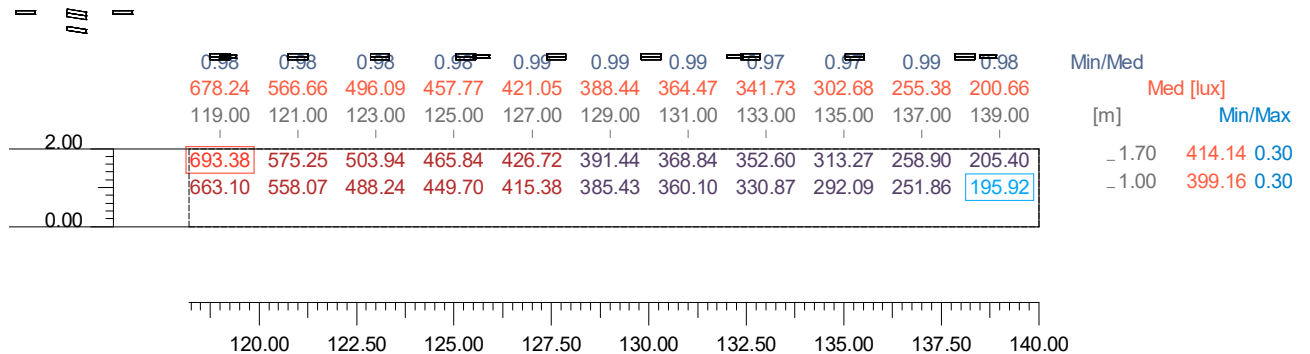


4.29 Valori di Illuminamento su: Parete Virtuale Sinistra [Lps (117-140m) (Autostrada - Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	406.65 lx	195.92 lx	693.38 lx	0.48	0.28	0.59

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

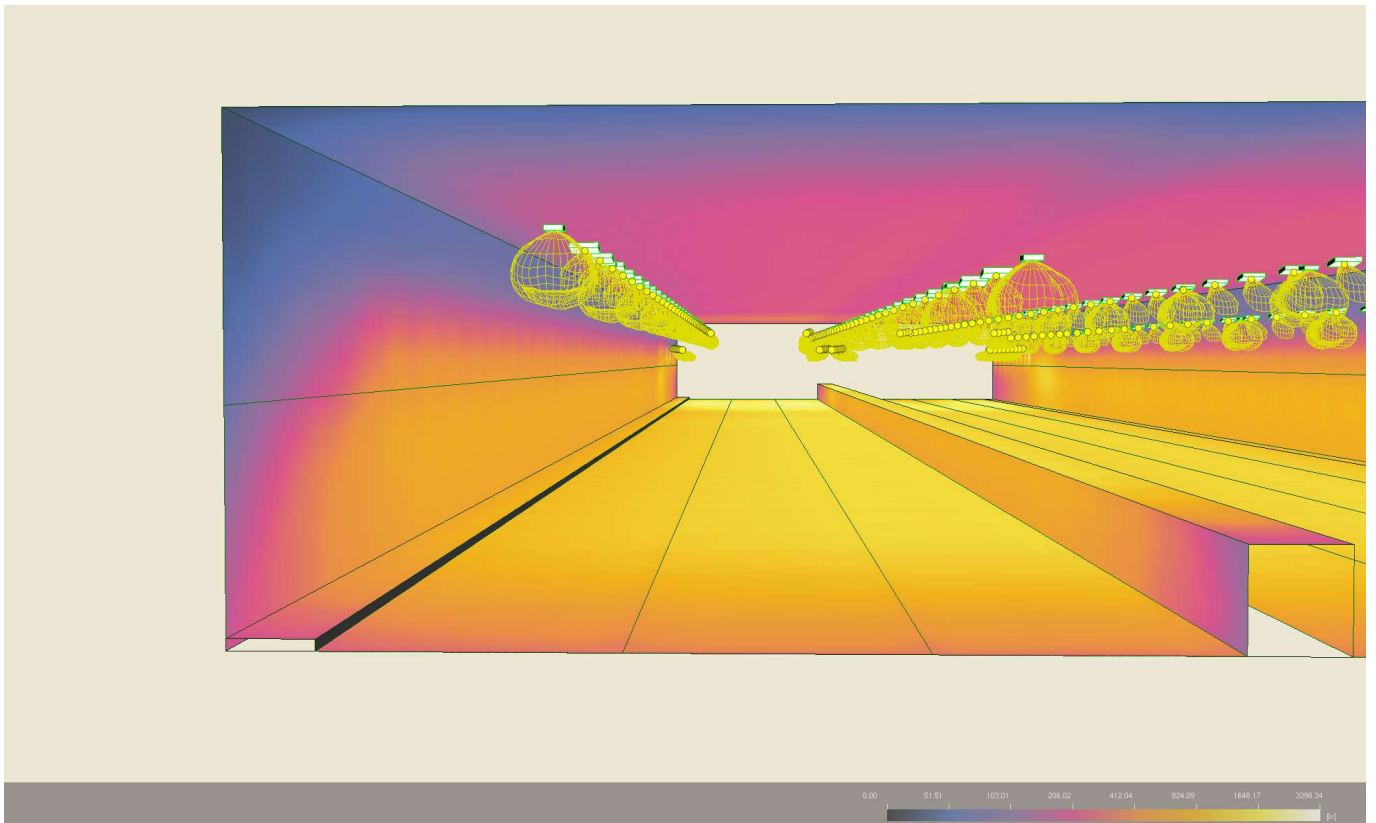


5. Immagini

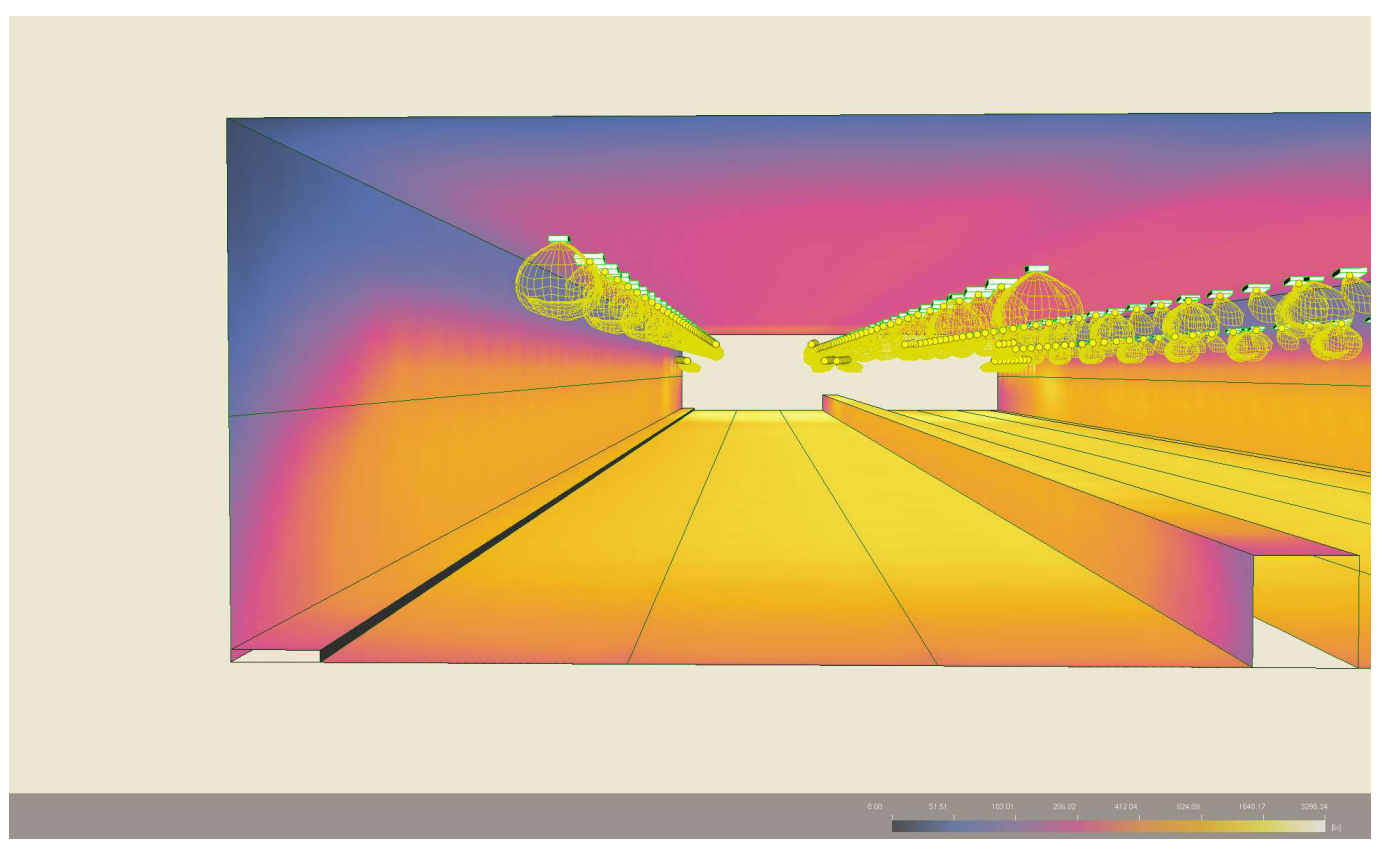
5.1 Immagini



5.2 Immagini



5.3 Immagini



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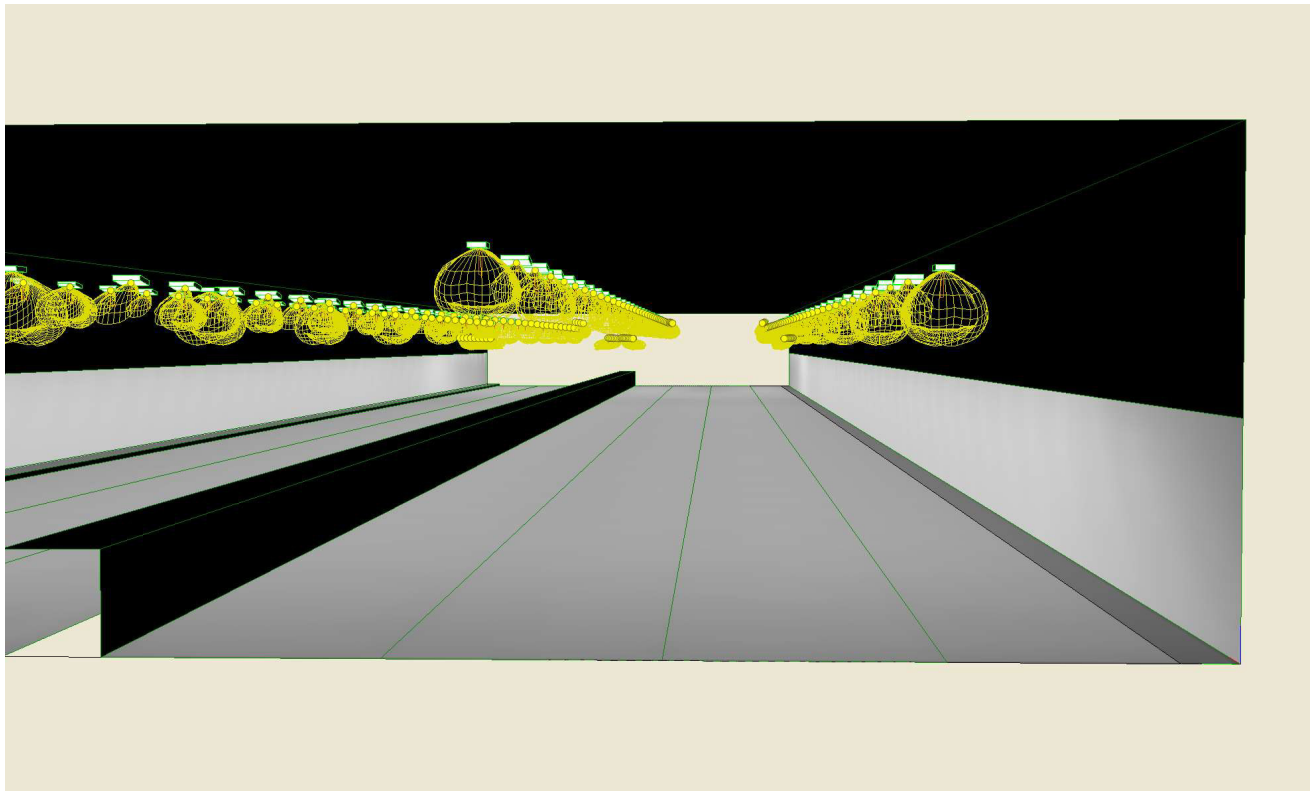
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Galleria San Donnino

Note Installazione: Rinforzo - Tangenziale - Sezione 2+1 - Direzione Milano
Cliente: Autostrade per l'Italia
Codice Progetto: DL21P177
Data: 17/05/2021

Note

UNI 11095-2019
Manto stradale C2 - Q0: 0,0560
Riflessione pareti 35%
H. galleria 6.61m
Fattore di manutenzione 80%
H. corpi illuminanti come da tabella sotto
Le = 100 cd/mq
Li = 2.25 cd/mq



Lighting Designer: Lorenzo Mazza
Indirizzo: Via Tre Ponti, 29 - Rezzato (BS)
Tel.-Fax: +39 3332619382

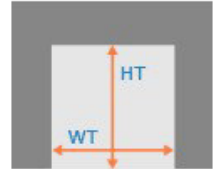
Avvertenze:

1. Dati Riepilogativi Progetto e Risultati

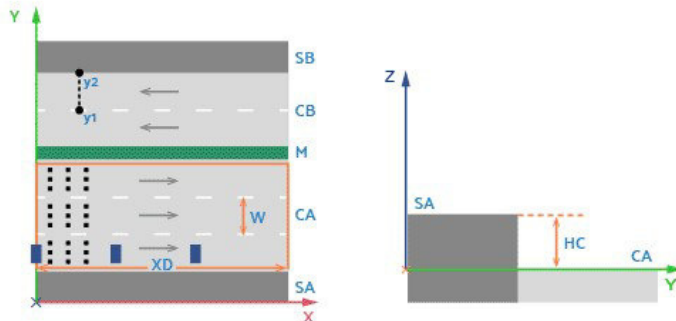
1.1 Informazioni Area

Osservatore Fisso (UNI 11095-2011+2019 - Italia)

Fornice	Cubo (A)
Larghezza (WT)	27.66 m
Altezza (HT)	6.61 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%



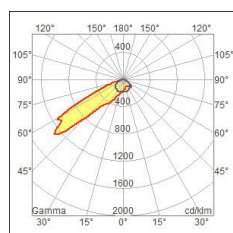
Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Marciapiede	Pista Ciclo/Pedona	Marciapiede	--->	0.72	0.00	0.72	3	3	0.00		0.3000
2. Carreggiata	Carrabile	Corsia d'Emergenz	--->	2.84	0.72	3.56	3	3	0.00	C2	0.0560
3. Tangenziale	Carrabile			10.50	3.56	14.06	7		0.00	C2	0.0560
		3.1 Corsia 1	--->	3.50	3.56	7.06		3			
		3.2 Corsia 2	--->	3.50	7.06	10.56		3			
		3.3 Corsia 3	--->	3.50	10.56	14.06		3			
4. Mediana Centra	Secondaria	Mediana Centrale	--->	1.25	14.06	15.31	3	3	1.35		0.0000
5. Autostrada A14	Carrabile			11.25	15.31	26.56	8		0.00	C2	0.0560
		5.1 Corsia 1	--->	3.75	15.31	19.06		3			
		5.2 Corsia 2	--->	3.75	19.06	22.81		3			
		5.3 Corsia 3	--->	3.75	22.81	26.56		3			
6. Marciapiede B	Pista Ciclo/Pedona	Marciapiede	--->	1.10	26.56	27.66	3	3	0.15		0.3000



1.2 Informazioni Apparecchi/Rilievi

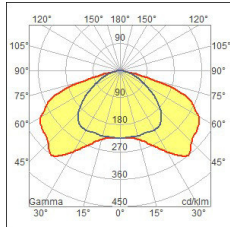
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
------	--	--	-------------	--------------	--------	------------	---------------	-----------	-------------

A	Detas SpA Radiant 8XXL_128D700_W218A	Radiant 8XXL_128D700_W218A	37971.00	0.80	100 %	255,255,255	132	Sorg-A	1
---	---	----------------------------	----------	------	-------	-------------	-----	--------	---

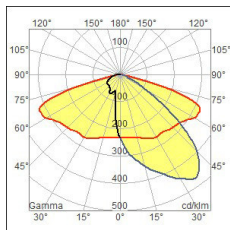


Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
------	--	--	----------------	-----------------	--------	---------------	------------------	-----------	----------------

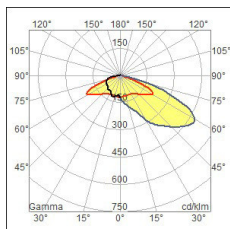
B Detas SpA Radiant 8XXL_96D830_W244S 35110.00 0.80 100 % 255,255,255 16 Sorg-B 1
Radiant 8XXL_96D830_W244S (Radiant 8XXL_96D830_W244S);
(Radiant 8XXL_96D830_W244S);



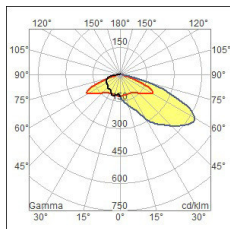
C Detas SpA Radiant 8XXL_128D750_W206A 37730.00 0.80 100 % 255,255,255 36 Sorg-C 1
Radiant 8XXL_128D750_W206A (Radiant 8XXL_128D750_W206A);
(Radiant 8XXL_128D750_W206A);



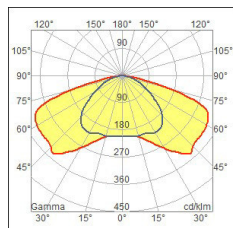
D Detas SpA Radiant 8S 16D700_W201A 4770.00 0.80 100 % 255,255,255 8 Sorg-D 1
Radiant 8S 16D700_W201A (Radiant 8S 16D700_W201A);
(Radiant 8S 16D700_W201A);



E Detas SpA Radiant 8S 16D440_W201A 3101.00 0.80 100 % 255,255,255 8 Sorg-E 1
Radiant 8S 16D440_W201A (Radiant 8S 16D440_W201A);
(Radiant 8S 16D440_W201A);



Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
F	Detas SpA Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	Radiant 8S 16D700_W244S (Radiant 8S 16D700_W244S)	5087.00	0.80	100 %	255,255,255	44	Sorg-F	1

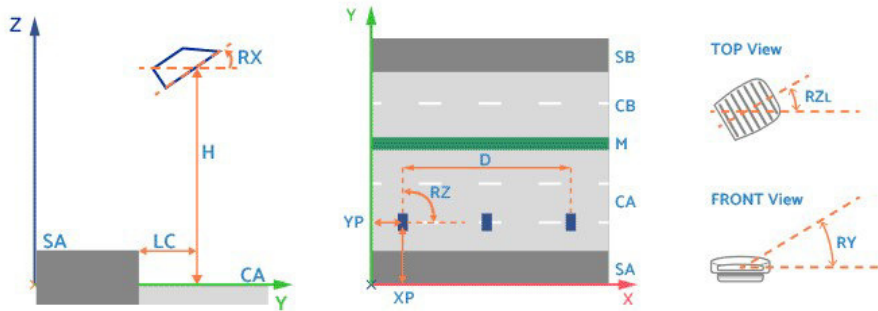


1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		128D700 282W	128D700 282W	282.00	0.0000	37971	6000	132
Sorg-B		96D830 256W	96D830 256W	256.00	0.0000	35110	6000	16
Sorg-C		128D750 304W	128D750 304W	304.00	0.0000	37730	6000	36
Sorg-D		16D700 35W	16D700 35W	35.00	0.0000	4770	6000	8
Sorg-E		16D440 22W	16D440 22W	22.00	0.0000	3101	6000	8
Sorg-F		16D700 35W	16D700 35W	35.00	0.0000	5087	6000	44

1.4 Dati Installazione Apparecchi

Nome Fila	Rif.	Circuito	Pos.X (XP) [m]	Pos.Y (YP) [m]	Altez.App. [m] (H)	Num. Apparecchi	Interd. [m] (D)	Incr.%	Tratto [m]	Ang.Incl. [°] (RX)	Ang.Rot.App. [°] (RZ)	Ang.Incl.Lat. [°] (RY)
Fila B	F		5.00	3.00	5.00	11	10.50	0.00	105.00	0	0	-0
Fila B	F		5.00	10.00	5.35	11	10.50	0.00	105.00	0	0	-0
Fila B	F		5.00	17.15	5.00	11	10.50	0.00	105.00	0	0	-0
Fila B	F		5.00	24.15	5.45	11	10.50	0.00	105.00	0	0	-0
Row	D	Layer 0	119.20	0.50	4.31	4	6.50	0.00	19.50	0	0	0
Row	E	Layer 0	119.20	14.15	4.31	4	6.50	0.00	19.50	0	180	0
Row	E	Layer 0	119.20	15.20	4.31	4	6.50	0.00	19.50	0	0	0
Row	D	Layer 0	119.20	27.10	4.31	4	6.50	0.00	19.50	0	180	0
Row	A	Layer 0	10.00	3.00	5.00	24	3.25	0.00	74.75	0	0	9
Row	A	Layer 0	10.00	10.00	5.35	24	3.25	0.00	74.75	0	0	9
Row	A	Layer 0	10.00	17.00	5.00	24	3.25	0.00	74.75	0	0	9
Row	A	Layer 0	10.00	24.15	5.45	24	3.25	0.00	74.75	0	0	9
Row	A	Layer 0	87.30	3.00	5.00	9	3.15	3.00	28.01	0	0	9
Row	A	Layer 0	87.30	10.00	5.35	9	3.15	3.00	28.01	0	0	9
Row	A	Layer 0	87.30	17.00	5.00	9	3.15	3.00	28.01	0	0	9
Row	A	Layer 0	87.30	24.15	5.45	9	3.15	3.00	28.01	0	0	9
Row	B	Layer 0	109.00	3.00	5.45	4	2.50	0.00	7.50	0	0	0
Row	B	Layer 0	109.00	10.00	5.45	4	2.50	0.00	7.50	0	0	0
Row	B	Layer 0	109.00	17.00	5.45	4	2.50	0.00	7.50	0	0	0
Row	B	Layer 0	109.00	24.15	5.45	4	2.50	0.00	7.50	0	0	0
Row	C	Layer 0	119.00	0.50	4.31	9	2.00	5.00	19.10	9	0	0
Row	C	Layer 0	119.00	14.15	4.31	9	2.00	5.00	19.10	9	180	0
Row	C	Layer 0	119.00	15.20	4.31	9	2.00	5.00	19.10	9	0	0
Row	C	Layer 0	119.00	27.10	4.31	9	2.00	5.00	19.10	9	180	0



1.5 Risultati dei Calcoli e Parametri di Uniformità

Riepilogo Risultati dei Calcoli

EN 13201:2015

1 - Marciapiede	Risultati	E _{Av} = 929.0 lux	E _{MIN} = 283.84 lux		
2 - Carreggiata	Risultati	L _{Av} = 109.00 cd/m ²	U _o (L) = 0.22	U _L = 0.22	f _{TI} = 12 %
	Oss. 1) [x=-60.00 y=2.14] m	L _{Av} = 109.00 cd/m ² *	U _o (L) = 0.22 *	U _L = 0.22 *	f _{TI} = 11.93 %
	Oss.Ti [x=0.14 y=2.14] m	L _v = 22.18			
3 - Tangenziale	Risultati	L _{Av} = 93.31 cd/m ²	U _o (L) = 0.26	U _L = 0.22	f _{TI} = 14 %
	Oss. 1) [x=-60.00 y=5.31] m	L _{Av} = 93.31 cd/m ² *	U _o (L) = 0.26	U _L = 0.30	f _{TI} = 13.22 %
	Oss. 2) [x=-60.00 y=8.81] m	L _{Av} = 94.56 cd/m ²	U _o (L) = 0.26	U _L = 0.22 *	f _{TI} = 14.19 %
	Oss. 3) [x=-60.00 y=12.31] m	L _{Av} = 95.58 cd/m ²	U _o (L) = 0.26 *	U _L = 0.32	f _{TI} = 13.51 %
	Oss.Ti 1) [x=-5.86 y=5.31] m				
	Oss.Ti 2) [x=-5.86 y=8.81] m				
	Oss.Ti 3) [x=-5.86 y=12.31] m				
	L _v = 16.34				
5 - Autostrada A14	Risultati	L _{Av} = 97.87 cd/m ²	U _o (L) = 0.29	U _L = 0.21	f _{TI} = 17 %
	Oss. 1) [x=-60.00 y=17.18] m	L _{Av} = 97.87 cd/m ² *	U _o (L) = 0.29	U _L = 0.21 *	f _{TI} = 16.93 %
	Oss. 2) [x=-60.00 y=20.93] m	L _{Av} = 98.66 cd/m ²	U _o (L) = 0.29	U _L = 0.41	f _{TI} = 12.37 %
	Oss. 3) [x=-60.00 y=24.68] m	L _{Av} = 98.87 cd/m ²	U _o (L) = 0.29 *	U _L = 0.24	f _{TI} = 12.39 %
	Oss.Ti 1) [x=0.14 y=17.18] m				
	Oss.Ti 2) [x=-5.86 y=20.93] m				
	Oss.Ti 3) [x=-1.86 y=24.68] m				
	L _v = 26.52				
6 - Marciapiede B	Risultati	E _{Av} = 870.3 lux	E _{MIN} = 268.48 lux		

Riepilogo Uniformità di Lur

Sezione Ingresso	[10.00..81.50] m	(Luminanza Costante)		
Parete Destra	L _{Av} %,(pd/c,o1) = 74.0 %	L _{Av} ,pd=90.75 cd/m ²	U _o ,pd=0.86	U _L ,pd=0.88 (y=1.70)
Parete Sinistra	L _{Av} %,(ps/c,o1) = 65.0 %	L _{Av} ,ps=79.81 cd/m ²	U _o ,ps=0.85	U _L ,ps=0.85 (y=1.70)
1 - Marciapiede	L _{Av} %,(md/c,o1) = 74.5 %	L _{Av} ,md,o1=91.45 cd/m ²	U _o ,md,o1=0.83	U _L ,o1=0.81 (y=0.36)
2 - Carreggiata	---	L _{Av} ,c,o1=122.71 cd/m ²	U _o ,c,o1=0.66	U _L ,o1=0.93 (y=2.14)
3 - Tangenziale	---	L _{Av} ,c,o1=103.99 cd/m ²	U _o ,c,o3=0.68	U _L ,o3=0.90 (y=12.31)
---	Oss. 1) [x=-60.00 y=5.31] m	L _{Av} ,c,o1=103.99 cd/m ² *	U _o ,c,o1=0.70	U _L ,o1=0.90 (y=5.31)
---	Oss. 2) [x=-60.00 y=8.81] m	L _{Av} ,c,o2=106.03 cd/m ²	U _o ,c,o2=0.69	U _L ,o2=0.92 (y=8.81)
---	Oss. 3) [x=-60.00 y=12.31] m	L _{Av} ,c,o3=107.72 cd/m ²	U _o ,c,o3=0.68 *	U _L ,o3=0.90 (y=12.31)
5 - Autostrada A14	---	L _{Av} ,c,o1=107.69 cd/m ²	U _o ,c,o1=0.50	U _L ,o2=0.90 (y=20.93)
---	Oss. 1) [x=-60.00 y=17.18] m	L _{Av} ,c,o1=107.69 cd/m ² *	U _o ,c,o1=0.50 *	U _L ,o1=0.92 (y=17.18)
---	Oss. 2) [x=-60.00 y=20.93] m	L _{Av} ,c,o2=108.68 cd/m ²	U _o ,c,o2=0.58	U _L ,o2=0.90 (y=20.93)
---	Oss. 3) [x=-60.00 y=24.68] m	L _{Av} ,c,o3=108.99 cd/m ²	U _o ,c,o3=0.65	U _L ,o3=0.92 (y=24.68)
6 - Marciapiede B	L _{Av} %,(ms/c,o1) = 66.1 %	L _{Av} ,ms,o1=81.16 cd/m ²	U _o ,ms,o1=0.81	U _L ,o1=0.82 (y=27.11)

6 - Marciapiede B	LAvt%,(ms/c,o1) = 66.1 %	LAvt,ms,o1=81.16 cd/m ²	Uo,ms,o1=0.81	UI,o1=0.82 (y=27.11)
Sezione Ingresso	[81.50..140.00] m	(Luminanza Variabile)		
Parete Destra	LAvt%(pd/c,o1) = 50.9 % (x=1	LAvt,pd=19.73 cd/m ² (x=139.0	Uot,pd=0.94 (x=113.00	
Parete Sinistra	LAvt%(ps/c,o1) = 56.8 % (x=1	LAvt,ps=22.35 cd/m ² (x=139.0	Uot,ps=0.95 (x=109.00	
1 - Marciapiede	LAvt%(md/c,o1) = 76.2 % (x=9	LAvt,md,o1=40.68 cd/m ² (x=1	Uot,md,o1=0.79 (x=135	
2 - Carreggiata	---->	LAvt,c,o1=28.13 cd/m ² (x=13	Uot,c,o1=0.72 (x=85.00	
3 - Tangenziale	---->	LAvt,c,o1=28.80 cd/m ² (x=13	Uot,c,o1=0.66 (x=123.0	
---->	Oss. 1) [x=-60.00 y=5.31] m	LAvt,c,o1=28.80 cd/m ² (x=13	Uot,c,o1=0.66 (x=123.0	
---->	Oss. 2) [x=-60.00 y=8.81] m	LAvt,c,o2=28.81 cd/m ² (x=13	Uot,c,o2=0.68 (x=123.0	
---->	Oss. 3) [x=-60.00 y=12.31] m	LAvt,c,o3=28.83 cd/m ² (x=13	Uot,c,o3=0.69 (x=123.0	
5 - Autostrada A14	---->	LAvt,c,o2=32.64 cd/m ² (x=13	Uot,c,o1=0.56 (x=101.0	
---->	Oss. 1) [x=-60.00 y=17.18] m	LAvt,c,o1=32.64 cd/m ² (x=13	Uot,c,o1=0.56 (x=101.0	
---->	Oss. 2) [x=-60.00 y=20.93] m	LAvt,c,o2=32.64 cd/m ² (x=13	Uot,c,o2=0.65 (x=101.0	
---->	Oss. 3) [x=-60.00 y=24.68] m	LAvt,c,o3=32.64 cd/m ² (x=13	Uot,c,o3=0.69 (x=85.00	
6 - Marciapiede B	LAvt%(ms/c,o1) = 67.4 % (x=9	LAvt,ms,o1=49.92 cd/m ² (x=1	Uot,ms,o1=0.67 (x=135	

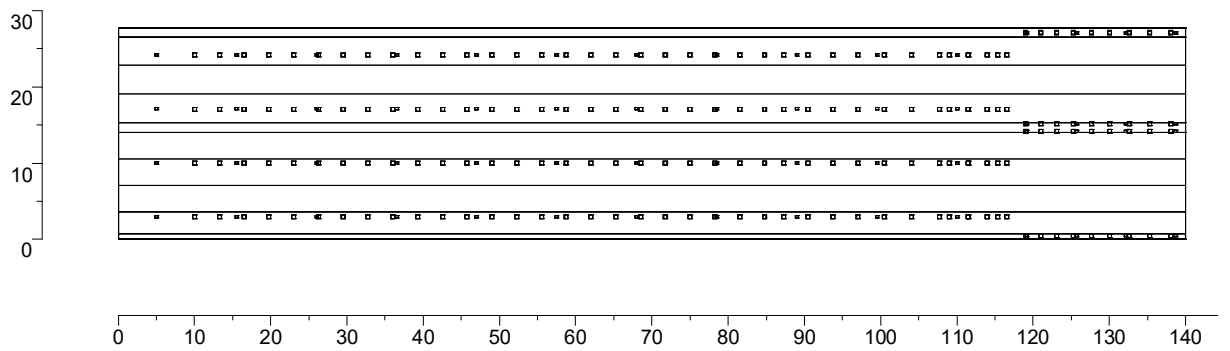
pd: Parete Destra ps: Parete Sinistra c: Carreggiata cm: Corsie di Marcia
md: Marciapiede Destro ms: Marciapiede Sinistro o: Osservatore

Inquinamento Luminoso

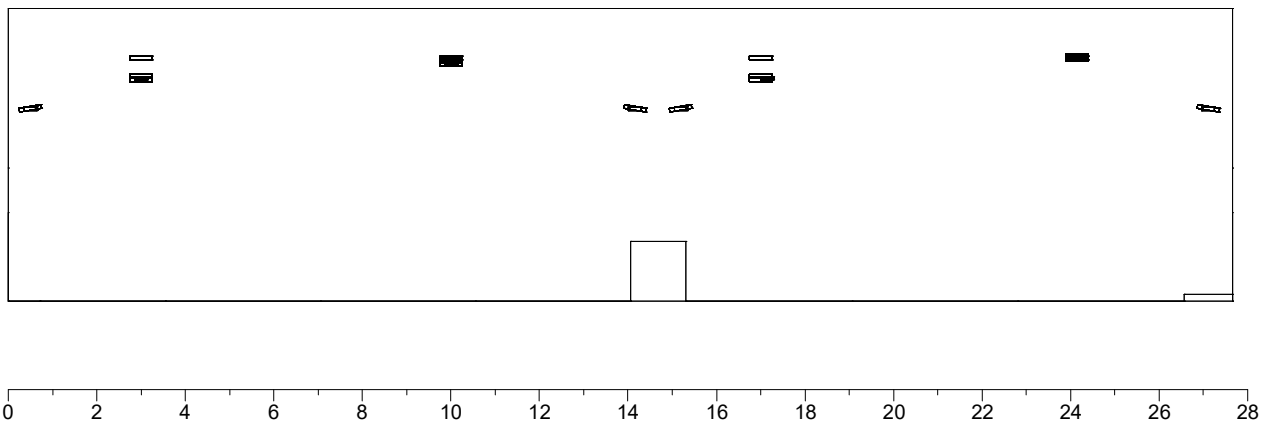
Rapporto Medio - Rn -
0.05 %

2. Viste Ambiente

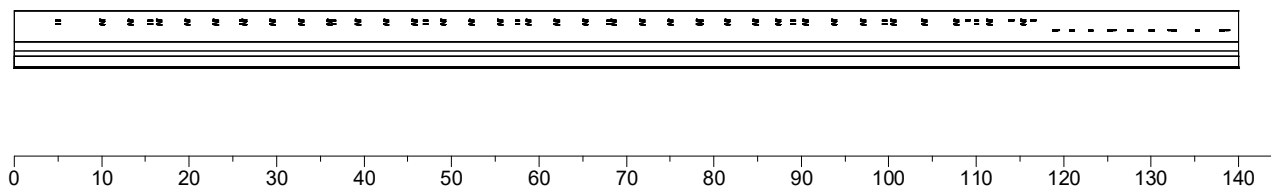
2.1 Vista 2D in Pianta



2.2 Vista Laterale

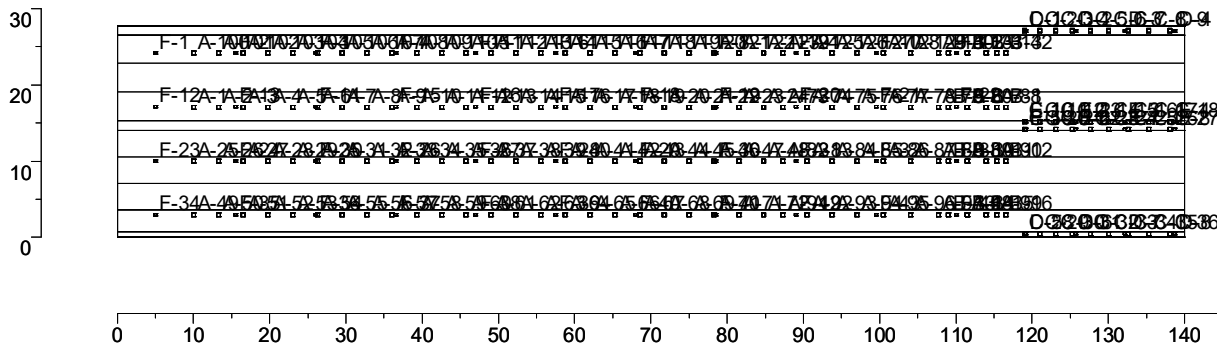


2.3 Vista Frontale



3. Dati Riepilogativi degli Apparecchi

3.1 Vista 2D in Pianta con Apparecchi



3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-1	100 %	10.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-2	100 %	13.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-3	100 %	16.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-4	100 %	19.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-5	100 %	23.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-6	100 %	26.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-7	100 %	29.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-8	100 %	32.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-9	100 %	36.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-10	100 %	39.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-11	100 %	42.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-12	100 %	45.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-13	100 %	49.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-14	100 %	52.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-15	100 %	55.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-16	100 %	58.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-17	100 %	62.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-18	100 %	65.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-19	100 %	68.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-20	100 %	71.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-21	100 %	75.00	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-22	100 %	78.25	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-23	100 %	81.50	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-24	100 %	84.75	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-25	100 %	10.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-26	100 %	13.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-27	100 %	16.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-28	100 %	19.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-29	100 %	23.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-30	100 %	26.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-31	100 %	29.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-32	100 %	32.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-33	100 %	36.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-34	100 %	39.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-35	100 %	42.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-36	100 %	45.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-37	100 %	49.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-38	100 %	52.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-39	100 %	55.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-40	100 %	58.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-41	100 %	62.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-42	100 %	65.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-43	100 %	68.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-44	100 %	71.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-45	100 %	75.00	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-46	100 %	78.25	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-47	100 %	81.50	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-48	100 %	84.75	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-49	100 %	10.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-50	100 %	13.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-51	100 %	16.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-52	100 %	19.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-53	100 %	23.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-54	100 %	26.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-55	100 %	29.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-56	100 %	32.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-57	100 %	36.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-58	100 %	39.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-59	100 %	42.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-60	100 %	45.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-61	100 %	49.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-62	100 %	52.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-63	100 %	55.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-64	100 %	58.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-65	100 %	62.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-66	100 %	65.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-67	100 %	68.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-68	100 %	71.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-69	100 %	75.00	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-70	100 %	78.25	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-71	100 %	81.50	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-72	100 %	84.75	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-73	100 %	87.30	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-74	100 %	90.45	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-75	100 %	93.69	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-76	100 %	97.04	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-77	100 %	100.48	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-78	100 %	104.02	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-79	100 %	107.68	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-80	100 %	111.44	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-81	100 %	115.31	17.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-82	100 %	87.30	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-83	100 %	90.45	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-84	100 %	93.69	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-85	100 %	97.04	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-86	100 %	100.48	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-87	100 %	104.02	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-88	100 %	107.68	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-89	100 %	111.44	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-90	100 %	115.31	10.00	5.35	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-91	100 %	87.30	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-92	100 %	90.45	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-93	100 %	93.69	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-94	100 %	97.04	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-95	100 %	100.48	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-96	100 %	104.02	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-97	100 %	107.68	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-98	100 %	111.44	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-99	100 %	115.31	3.00	5.00	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-100	100 %	10.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-101	100 %	13.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-102	100 %	16.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-103	100 %	19.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-104	100 %	23.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-105	100 %	26.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-106	100 %	29.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-107	100 %	32.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-108	100 %	36.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-109	100 %	39.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-110	100 %	42.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-111	100 %	45.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-112	100 %	49.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-113	100 %	52.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-114	100 %	55.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-115	100 %	58.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-116	100 %	62.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-117	100 %	65.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-118	100 %	68.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-119	100 %	71.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-120	100 %	75.00	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-121	100 %	78.25	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-122	100 %	81.50	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-123	100 %	84.75	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-124	100 %	87.30	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-125	100 %	90.45	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-126	100 %	93.69	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-127	100 %	97.04	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-128	100 %	100.48	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-129	100 %	104.02	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-130	100 %	107.68	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-131	100 %	111.44	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
A-132	100 %	115.31	24.15	5.45	0.0	9.0	0.0	Radiant 8XXL_128D700_W218A	128D700 282W
B-1	100 %	109.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-2	100 %	111.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-3	100 %	114.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-4	100 %	116.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-5	100 %	109.00	17.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
B-6	100 %	111.50	17.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-7	100 %	114.00	17.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-8	100 %	116.50	17.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-9	100 %	109.00	10.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-10	100 %	111.50	10.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-11	100 %	114.00	10.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-12	100 %	116.50	10.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-13	100 %	109.00	3.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-14	100 %	111.50	3.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-15	100 %	114.00	3.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
B-16	100 %	116.50	3.00	5.45	0.0	-0.0	0.0	Radiant 8XXL_96D830_W244S	96D830 256W
C-1	100 %	119.00	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-2	100 %	121.00	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-3	100 %	123.10	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-4	100 %	125.31	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-5	100 %	127.62	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-6	100 %	130.05	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-7	100 %	132.60	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-8	100 %	135.28	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-9	100 %	138.10	27.10	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-10	100 %	119.00	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-11	100 %	121.00	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-12	100 %	123.10	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-13	100 %	125.31	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-14	100 %	127.62	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-15	100 %	130.05	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-16	100 %	132.60	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-17	100 %	135.28	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-18	100 %	138.10	15.20	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-19	100 %	119.00	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-20	100 %	121.00	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-21	100 %	123.10	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-22	100 %	125.31	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-23	100 %	127.62	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-24	100 %	130.05	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-25	100 %	132.60	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-26	100 %	135.28	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-27	100 %	138.10	14.15	4.31	9.0	0.0	180.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-28	100 %	119.00	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-29	100 %	121.00	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-30	100 %	123.10	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-31	100 %	125.31	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-32	100 %	127.62	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-33	100 %	130.05	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-34	100 %	132.60	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-35	100 %	135.28	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
C-36	100 %	138.10	0.50	4.31	9.0	-0.0	0.0	Radiant 8XXL_128D750_W206A	128D750 304W
D-1	100 %	119.20	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
D-2	100 %	125.70	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
D-3	100 %	132.20	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
D-4	100 %	138.70	27.10	4.31	0.0	-0.0	180.0	Radiant 8S 16D700_W201A	16D700 35W
D-5	100 %	119.20	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
D-6	100 %	125.70	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
D-7	100 %	132.20	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
D-8	100 %	138.70	0.50	4.31	0.0	-0.0	0.0	Radiant 8S 16D700_W201A	16D700 35W
E-1	100 %	119.20	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
E-2	100 %	125.70	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
E-3	100 %	132.20	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
E-4	100 %	138.70	15.20	4.31	0.0	-0.0	0.0	Radiant 8S 16D440_W201A	16D440 22W
E-5	100 %	119.20	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
E-6	100 %	125.70	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
E-7	100 %	132.20	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
E-8	100 %	138.70	14.15	4.31	0.0	-0.0	180.0	Radiant 8S 16D440_W201A	16D440 22W
F-1	100 %	5.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-2	100 %	15.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-3	100 %	26.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-4	100 %	36.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-5	100 %	47.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-6	100 %	57.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-7	100 %	68.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
F-8	100 %	78.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-9	100 %	89.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-10	100 %	99.50	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-11	100 %	110.00	24.15	5.45	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-12	100 %	5.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-13	100 %	15.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-14	100 %	26.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-15	100 %	36.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-16	100 %	47.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-17	100 %	57.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-18	100 %	68.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-19	100 %	78.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-20	100 %	89.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-21	100 %	99.50	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-22	100 %	110.00	17.15	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-23	100 %	5.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-24	100 %	15.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-25	100 %	26.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-26	100 %	36.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-27	100 %	47.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-28	100 %	57.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-29	100 %	68.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-30	100 %	78.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-31	100 %	89.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-32	100 %	99.50	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-33	100 %	110.00	10.00	5.35	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-34	100 %	5.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-35	100 %	15.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-36	100 %	26.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-37	100 %	36.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-38	100 %	47.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-39	100 %	57.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-40	100 %	68.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-41	100 %	78.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-42	100 %	89.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-43	100 %	99.50	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W
F-44	100 %	110.00	3.00	5.00	0.0	-0.0	0.0	Radiant 8S 16D700_W244S	16D700 35W

3.3 Tabella Riepilogativa Puntamenti

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
	A-1	Radiant 8XXL_128D700_W218A	100 %	10.00	17.00	5.00	0.0	9.0	0.0	9.21	17.00	0.00	0.0
	A-2	Radiant 8XXL_128D700_W218A	100 %	13.25	17.00	5.00	0.0	9.0	0.0	12.46	17.00	0.00	0.0
	A-3	Radiant 8XXL_128D700_W218A	100 %	16.50	17.00	5.00	0.0	9.0	0.0	15.71	17.00	0.00	0.0
	A-4	Radiant 8XXL_128D700_W218A	100 %	19.75	17.00	5.00	0.0	9.0	0.0	18.96	17.00	0.00	0.0
	A-5	Radiant 8XXL_128D700_W218A	100 %	23.00	17.00	5.00	0.0	9.0	0.0	22.21	17.00	0.00	0.0
	A-6	Radiant 8XXL_128D700_W218A	100 %	26.25	17.00	5.00	0.0	9.0	0.0	25.46	17.00	0.00	0.0
	A-7	Radiant 8XXL_128D700_W218A	100 %	29.50	17.00	5.00	0.0	9.0	0.0	28.71	17.00	0.00	0.0
	A-8	Radiant 8XXL_128D700_W218A	100 %	32.75	17.00	5.00	0.0	9.0	0.0	31.96	17.00	0.00	0.0
	A-9	Radiant 8XXL_128D700_W218A	100 %	36.00	17.00	5.00	0.0	9.0	0.0	35.21	17.00	0.00	0.0
	A-10	Radiant 8XXL_128D700_W218A	100 %	39.25	17.00	5.00	0.0	9.0	0.0	38.46	17.00	0.00	0.0
	A-11	Radiant 8XXL_128D700_W218A	100 %	42.50	17.00	5.00	0.0	9.0	0.0	41.71	17.00	0.00	0.0
	A-12	Radiant 8XXL_128D700_W218A	100 %	45.75	17.00	5.00	0.0	9.0	0.0	44.96	17.00	0.00	0.0
	A-13	Radiant 8XXL_128D700_W218A	100 %	49.00	17.00	5.00	0.0	9.0	0.0	48.21	17.00	0.00	0.0
	A-14	Radiant 8XXL_128D700_W218A	100 %	52.25	17.00	5.00	0.0	9.0	0.0	51.46	17.00	0.00	0.0
	A-15	Radiant 8XXL_128D700_W218A	100 %	55.50	17.00	5.00	0.0	9.0	0.0	54.71	17.00	0.00	0.0
	A-16	Radiant 8XXL_128D700_W218A	100 %	58.75	17.00	5.00	0.0	9.0	0.0	57.96	17.00	0.00	0.0
	A-17	Radiant 8XXL_128D700_W218A	100 %	62.00	17.00	5.00	0.0	9.0	0.0	61.21	17.00	0.00	0.0
	A-18	Radiant 8XXL_128D700_W218A	100 %	65.25	17.00	5.00	0.0	9.0	0.0	64.46	17.00	0.00	0.0
	A-19	Radiant 8XXL_128D700_W218A	100 %	68.50	17.00	5.00	0.0	9.0	0.0	67.71	17.00	0.00	0.0
	A-20	Radiant 8XXL_128D700_W218A	100 %	71.75	17.00	5.00	0.0	9.0	0.0	70.96	17.00	0.00	0.0
	A-21	Radiant 8XXL_128D700_W218A	100 %	75.00	17.00	5.00	0.0	9.0	0.0	74.21	17.00	0.00	0.0
	A-22	Radiant 8XXL_128D700_W218A	100 %	78.25	17.00	5.00	0.0	9.0	0.0	77.46	17.00	0.00	0.0
	A-23	Radiant 8XXL_128D700_W218A	100 %	81.50	17.00	5.00	0.0	9.0	0.0	80.71	17.00	0.00	0.0
	A-24	Radiant 8XXL_128D700_W218A	100 %	84.75	17.00	5.00	0.0	9.0	0.0	83.96	17.00	0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	[°]
	A-95	Radiant 8XXL_128D700_W218A	100 %	100.48	3.00	5.00	0.0	9.0	0.0	99.69	3.00	0.00	0.0
	A-96	Radiant 8XXL_128D700_W218A	100 %	104.02	3.00	5.00	0.0	9.0	0.0	103.23	3.00	0.00	0.0
	A-97	Radiant 8XXL_128D700_W218A	100 %	107.68	3.00	5.00	0.0	9.0	0.0	106.88	3.00	0.00	0.0
	A-98	Radiant 8XXL_128D700_W218A	100 %	111.44	3.00	5.00	0.0	9.0	0.0	110.64	3.00	0.00	0.0
	A-99	Radiant 8XXL_128D700_W218A	100 %	115.31	3.00	5.00	0.0	9.0	0.0	114.52	3.00	0.00	0.0
	A-100	Radiant 8XXL_128D700_W218A	100 %	10.00	24.15	5.45	0.0	9.0	0.0	9.14	24.15	0.00	0.0
	A-101	Radiant 8XXL_128D700_W218A	100 %	13.25	24.15	5.45	0.0	9.0	0.0	12.39	24.15	0.00	0.0
	A-102	Radiant 8XXL_128D700_W218A	100 %	16.50	24.15	5.45	0.0	9.0	0.0	15.64	24.15	0.00	0.0
	A-103	Radiant 8XXL_128D700_W218A	100 %	19.75	24.15	5.45	0.0	9.0	0.0	18.89	24.15	0.00	0.0
	A-104	Radiant 8XXL_128D700_W218A	100 %	23.00	24.15	5.45	0.0	9.0	0.0	22.14	24.15	0.00	0.0
	A-105	Radiant 8XXL_128D700_W218A	100 %	26.25	24.15	5.45	0.0	9.0	0.0	25.39	24.15	0.00	0.0
	A-106	Radiant 8XXL_128D700_W218A	100 %	29.50	24.15	5.45	0.0	9.0	0.0	28.64	24.15	0.00	0.0
	A-107	Radiant 8XXL_128D700_W218A	100 %	32.75	24.15	5.45	0.0	9.0	0.0	31.89	24.15	0.00	0.0
	A-108	Radiant 8XXL_128D700_W218A	100 %	36.00	24.15	5.45	0.0	9.0	0.0	35.14	24.15	0.00	0.0
	A-109	Radiant 8XXL_128D700_W218A	100 %	39.25	24.15	5.45	0.0	9.0	0.0	38.39	24.15	0.00	0.0
	A-110	Radiant 8XXL_128D700_W218A	100 %	42.50	24.15	5.45	0.0	9.0	0.0	41.64	24.15	0.00	0.0
	A-111	Radiant 8XXL_128D700_W218A	100 %	45.75	24.15	5.45	0.0	9.0	0.0	44.89	24.15	0.00	0.0
	A-112	Radiant 8XXL_128D700_W218A	100 %	49.00	24.15	5.45	0.0	9.0	0.0	48.14	24.15	0.00	0.0
	A-113	Radiant 8XXL_128D700_W218A	100 %	52.25	24.15	5.45	0.0	9.0	0.0	51.39	24.15	0.00	0.0
	A-114	Radiant 8XXL_128D700_W218A	100 %	55.50	24.15	5.45	0.0	9.0	0.0	54.64	24.15	0.00	0.0
	A-115	Radiant 8XXL_128D700_W218A	100 %	58.75	24.15	5.45	0.0	9.0	0.0	57.89	24.15	0.00	0.0
	A-116	Radiant 8XXL_128D700_W218A	100 %	62.00	24.15	5.45	0.0	9.0	0.0	61.14	24.15	0.00	0.0
	A-117	Radiant 8XXL_128D700_W218A	100 %	65.25	24.15	5.45	0.0	9.0	0.0	64.39	24.15	0.00	0.0
	A-118	Radiant 8XXL_128D700_W218A	100 %	68.50	24.15	5.45	0.0	9.0	0.0	67.64	24.15	0.00	0.0
	A-119	Radiant 8XXL_128D700_W218A	100 %	71.75	24.15	5.45	0.0	9.0	0.0	70.89	24.15	0.00	0.0
	A-120	Radiant 8XXL_128D700_W218A	100 %	75.00	24.15	5.45	0.0	9.0	0.0	74.14	24.15	0.00	0.0
	A-121	Radiant 8XXL_128D700_W218A	100 %	78.25	24.15	5.45	0.0	9.0	0.0	77.39	24.15	0.00	0.0
	A-122	Radiant 8XXL_128D700_W218A	100 %	81.50	24.15	5.45	0.0	9.0	0.0	80.64	24.15	0.00	0.0
	A-123	Radiant 8XXL_128D700_W218A	100 %	84.75	24.15	5.45	0.0	9.0	0.0	83.89	24.15	0.00	0.0
	A-124	Radiant 8XXL_128D700_W218A	100 %	87.30	24.15	5.45	0.0	9.0	0.0	86.44	24.15	0.00	0.0
	A-125	Radiant 8XXL_128D700_W218A	100 %	90.45	24.15	5.45	0.0	9.0	0.0	89.59	24.15	0.00	0.0
	A-126	Radiant 8XXL_128D700_W218A	100 %	93.69	24.15	5.45	0.0	9.0	0.0	92.83	24.15	0.00	0.0
	A-127	Radiant 8XXL_128D700_W218A	100 %	97.04	24.15	5.45	0.0	9.0	0.0	96.17	24.15	0.00	0.0
	A-128	Radiant 8XXL_128D700_W218A	100 %	100.48	24.15	5.45	0.0	9.0	0.0	99.62	24.15	0.00	0.0
	A-129	Radiant 8XXL_128D700_W218A	100 %	104.02	24.15	5.45	0.0	9.0	0.0	103.16	24.15	0.00	0.0
	A-130	Radiant 8XXL_128D700_W218A	100 %	107.68	24.15	5.45	0.0	9.0	0.0	106.81	24.15	0.00	0.0
	A-131	Radiant 8XXL_128D700_W218A	100 %	111.44	24.15	5.45	0.0	9.0	0.0	110.57	24.15	0.00	0.0
	A-132	Radiant 8XXL_128D700_W218A	100 %	115.31	24.15	5.45	0.0	9.0	0.0	114.45	24.15	0.00	0.0
	B-1	Radiant 8XXL_96D830_W244S	100 %	109.00	24.15	5.45	0.0	-0.0	0.0	109.00	24.15	0.00	0.0
	B-2	Radiant 8XXL_96D830_W244S	100 %	111.50	24.15	5.45	0.0	-0.0	0.0	111.50	24.15	0.00	0.0
	B-3	Radiant 8XXL_96D830_W244S	100 %	114.00	24.15	5.45	0.0	-0.0	0.0	114.00	24.15	0.00	0.0
	B-4	Radiant 8XXL_96D830_W244S	100 %	116.50	24.15	5.45	0.0	-0.0	0.0	116.50	24.15	0.00	0.0
	B-5	Radiant 8XXL_96D830_W244S	100 %	109.00	17.00	5.45	0.0	-0.0	0.0	109.00	17.00	0.00	0.0
	B-6	Radiant 8XXL_96D830_W244S	100 %	111.50	17.00	5.45	0.0	-0.0	0.0	111.50	17.00	0.00	0.0
	B-7	Radiant 8XXL_96D830_W244S	100 %	114.00	17.00	5.45	0.0	-0.0	0.0	114.00	17.00	0.00	0.0
	B-8	Radiant 8XXL_96D830_W244S	100 %	116.50	17.00	5.45	0.0	-0.0	0.0	116.50	17.00	0.00	0.0
	B-9	Radiant 8XXL_96D830_W244S	100 %	109.00	10.00	5.45	0.0	-0.0	0.0	109.00	10.00	0.00	0.0
	B-10	Radiant 8XXL_96D830_W244S	100 %	111.50	10.00	5.45	0.0	-0.0	0.0	111.50	10.00	0.00	0.0
	B-11	Radiant 8XXL_96D830_W244S	100 %	114.00	10.00	5.45	0.0	-0.0	0.0	114.00	10.00	0.00	0.0
	B-12	Radiant 8XXL_96D830_W244S	100 %	116.50	10.00	5.45	0.0	-0.0	0.0	116.50	10.00	0.00	0.0
	B-13	Radiant 8XXL_96D830_W244S	100 %	109.00	3.00	5.45	0.0	-0.0	0.0	109.00	3.00	0.00	0.0
	B-14	Radiant 8XXL_96D830_W244S	100 %	111.50	3.00	5.45	0.0	-0.0	0.0	111.50	3.00	0.00	0.0
	B-15	Radiant 8XXL_96D830_W244S	100 %	114.00	3.00	5.45	0.0	-0.0	0.0	114.00	3.00	0.00	0.0
	B-16	Radiant 8XXL_96D830_W244S	100 %	116.50	3.00	5.45	0.0	-0.0	0.0	116.50	3.00	0.00	0.0
	C-1	Radiant 8XXL_128D750_W206A	100 %	119.00	27.10	4.31	9.0	0.0	180.0	119.00	26.42	-0.00	0.0
	C-2	Radiant 8XXL_128D750_W206A	100 %	121.00	27.10	4.31	9.0	0.0	180.0	121.00	26.42	-0.00	0.0
	C-3	Radiant 8XXL_128D750_W206A	100 %	123.10	27.10	4.31	9.0	0.0	180.0	123.10	26.42	-0.00	0.0
	C-4	Radiant 8XXL_128D750_W206A	100 %	125.31	27.10	4.31	9.0	0.0	180.0	125.31	26.42	-0.00	0.0
	C-5	Radiant 8XXL_128D750_W206A	100 %	127.62	27.10	4.31	9.0	0.0	180.0	127.62	26.42	-0.00	0.0
	C-6	Radiant 8XXL_128D750_W206A	100 %	130.05	27.10	4.31	9.0	0.0	180.0	130.05	26.42	-0.00	0.0
	C-7	Radiant 8XXL_128D750_W206A	100 %	132.60	27.10	4.31	9.0	0.0	180.0	132.60	26.42	-0.00	0.0
	C-8	Radiant 8XXL_128D750_W206A	100 %	135.28	27.10	4.31	9.0	0.0	180.0	135.28	26.42	-0.00	0.0
	C-9	Radiant 8XXL_128D750_W206A	100 %	138.10	27.10	4.31	9.0	0.0	180.0	138.10	26.42	-0.00	0.0
	C-10	Radiant 8XXL_128D750_W206A	100 %	119.00	15.20	4.31	9.0	-0.0	0.0	119.00	15.88	-0.00	0.0
	C-11	Radiant 8XXL_128D750_W206A	100 %	121.00	15.20	4.31	9.0	-0.0	0.0	121.00	15.88	-0.00	0.0
	C-12	Radiant 8XXL_128D750_W206A	100 %	123.10	15.20	4.31	9.0	-0.0	0.0	123.10	15.88	-0.00	0.0
	C-13	Radiant 8XXL_128D750_W206A	100 %	125.31	15.20	4.31	9.0	-0.0	0.0	125.31	15.88	-0.00	0.0
	C-14	Radiant 8XXL_128D750_W206A	100 %	127.62	15.20	4.31	9.0	-0.0	0.0	127.62	15.88	-0.00	0.0
	C-15	Radiant 8XXL_128D750_W206A	100 %	130.05	15.20	4.31	9.0	-0.0	0.0	130.05	15.88	-0.00	0.0
	C-16	Radiant 8XXL_128D750_W206A	100 %	132.60	15.20	4.31	9.0	-0.0	0.0	132.60	15.88	-0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Puntamenti			R.Asse [°]
				x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]	x[m]	y[m]	z[m]	
C-17		Radiant 8XXL_128D750_W206A	100 %	135.28	15.20	4.31	9.0	-0.0	0.0	135.28	15.88	-0.00	0.0
C-18		Radiant 8XXL_128D750_W206A	100 %	138.10	15.20	4.31	9.0	-0.0	0.0	138.10	15.88	-0.00	0.0
C-19		Radiant 8XXL_128D750_W206A	100 %	119.00	14.15	4.31	9.0	0.0	180.0	119.00	13.47	-0.00	0.0
C-20		Radiant 8XXL_128D750_W206A	100 %	121.00	14.15	4.31	9.0	0.0	180.0	121.00	13.47	-0.00	0.0
C-21		Radiant 8XXL_128D750_W206A	100 %	123.10	14.15	4.31	9.0	0.0	180.0	123.10	13.47	-0.00	0.0
C-22		Radiant 8XXL_128D750_W206A	100 %	125.31	14.15	4.31	9.0	0.0	180.0	125.31	13.47	-0.00	0.0
C-23		Radiant 8XXL_128D750_W206A	100 %	127.62	14.15	4.31	9.0	0.0	180.0	127.62	13.47	-0.00	0.0
C-24		Radiant 8XXL_128D750_W206A	100 %	130.05	14.15	4.31	9.0	0.0	180.0	130.05	13.47	-0.00	0.0
C-25		Radiant 8XXL_128D750_W206A	100 %	132.60	14.15	4.31	9.0	0.0	180.0	132.60	13.47	-0.00	0.0
C-26		Radiant 8XXL_128D750_W206A	100 %	135.28	14.15	4.31	9.0	0.0	180.0	135.28	13.47	-0.00	0.0
C-27		Radiant 8XXL_128D750_W206A	100 %	138.10	14.15	4.31	9.0	0.0	180.0	138.10	13.47	-0.00	0.0
C-28		Radiant 8XXL_128D750_W206A	100 %	119.00	0.50	4.31	9.0	-0.0	0.0	119.00	1.18	-0.00	0.0
C-29		Radiant 8XXL_128D750_W206A	100 %	121.00	0.50	4.31	9.0	-0.0	0.0	121.00	1.18	-0.00	0.0
C-30		Radiant 8XXL_128D750_W206A	100 %	123.10	0.50	4.31	9.0	-0.0	0.0	123.10	1.18	-0.00	0.0
C-31		Radiant 8XXL_128D750_W206A	100 %	125.31	0.50	4.31	9.0	-0.0	0.0	125.31	1.18	-0.00	0.0
C-32		Radiant 8XXL_128D750_W206A	100 %	127.62	0.50	4.31	9.0	-0.0	0.0	127.62	1.18	-0.00	0.0
C-33		Radiant 8XXL_128D750_W206A	100 %	130.05	0.50	4.31	9.0	-0.0	0.0	130.05	1.18	-0.00	0.0
C-34		Radiant 8XXL_128D750_W206A	100 %	132.60	0.50	4.31	9.0	-0.0	0.0	132.60	1.18	-0.00	0.0
C-35		Radiant 8XXL_128D750_W206A	100 %	135.28	0.50	4.31	9.0	-0.0	0.0	135.28	1.18	-0.00	0.0
C-36		Radiant 8XXL_128D750_W206A	100 %	138.10	0.50	4.31	9.0	-0.0	0.0	138.10	1.18	-0.00	0.0
D-1		Radiant 8S_16D700_W201A	100 %	119.20	27.10	4.31	0.0	-0.0	180.0	119.20	27.10	0.00	0.0
D-2		Radiant 8S_16D700_W201A	100 %	125.70	27.10	4.31	0.0	-0.0	180.0	125.70	27.10	0.00	0.0
D-3		Radiant 8S_16D700_W201A	100 %	132.20	27.10	4.31	0.0	-0.0	180.0	132.20	27.10	0.00	0.0
D-4		Radiant 8S_16D700_W201A	100 %	138.70	27.10	4.31	0.0	-0.0	180.0	138.70	27.10	0.00	0.0
D-5		Radiant 8S_16D700_W201A	100 %	119.20	0.50	4.31	0.0	-0.0	0.0	119.20	0.50	0.00	0.0
D-6		Radiant 8S_16D700_W201A	100 %	125.70	0.50	4.31	0.0	-0.0	0.0	125.70	0.50	0.00	0.0
D-7		Radiant 8S_16D700_W201A	100 %	132.20	0.50	4.31	0.0	-0.0	0.0	132.20	0.50	0.00	0.0
D-8		Radiant 8S_16D700_W201A	100 %	138.70	0.50	4.31	0.0	-0.0	0.0	138.70	0.50	0.00	0.0
E-1		Radiant 8S_16D440_W201A	100 %	119.20	15.20	4.31	0.0	-0.0	0.0	119.20	15.20	0.00	0.0
E-2		Radiant 8S_16D440_W201A	100 %	125.70	15.20	4.31	0.0	-0.0	0.0	125.70	15.20	0.00	0.0
E-3		Radiant 8S_16D440_W201A	100 %	132.20	15.20	4.31	0.0	-0.0	0.0	132.20	15.20	0.00	0.0
E-4		Radiant 8S_16D440_W201A	100 %	138.70	15.20	4.31	0.0	-0.0	0.0	138.70	15.20	0.00	0.0
E-5		Radiant 8S_16D440_W201A	100 %	119.20	14.15	4.31	0.0	-0.0	180.0	119.20	14.15	0.00	0.0
E-6		Radiant 8S_16D440_W201A	100 %	125.70	14.15	4.31	0.0	-0.0	180.0	125.70	14.15	0.00	0.0
E-7		Radiant 8S_16D440_W201A	100 %	132.20	14.15	4.31	0.0	-0.0	180.0	132.20	14.15	0.00	0.0
E-8		Radiant 8S_16D440_W201A	100 %	138.70	14.15	4.31	0.0	-0.0	180.0	138.70	14.15	0.00	0.0
F-1		Radiant 8S_16D700_W244S	100 %	5.00	24.15	5.45	0.0	-0.0	0.0	5.00	24.15	0.00	0.0
F-2		Radiant 8S_16D700_W244S	100 %	15.50	24.15	5.45	0.0	-0.0	0.0	15.50	24.15	0.00	0.0
F-3		Radiant 8S_16D700_W244S	100 %	26.00	24.15	5.45	0.0	-0.0	0.0	26.00	24.15	0.00	0.0
F-4		Radiant 8S_16D700_W244S	100 %	36.50	24.15	5.45	0.0	-0.0	0.0	36.50	24.15	0.00	0.0
F-5		Radiant 8S_16D700_W244S	100 %	47.00	24.15	5.45	0.0	-0.0	0.0	47.00	24.15	0.00	0.0
F-6		Radiant 8S_16D700_W244S	100 %	57.50	24.15	5.45	0.0	-0.0	0.0	57.50	24.15	0.00	0.0
F-7		Radiant 8S_16D700_W244S	100 %	68.00	24.15	5.45	0.0	-0.0	0.0	68.00	24.15	0.00	0.0
F-8		Radiant 8S_16D700_W244S	100 %	78.50	24.15	5.45	0.0	-0.0	0.0	78.50	24.15	0.00	0.0
F-9		Radiant 8S_16D700_W244S	100 %	89.00	24.15	5.45	0.0	-0.0	0.0	89.00	24.15	0.00	0.0
F-10		Radiant 8S_16D700_W244S	100 %	99.50	24.15	5.45	0.0	-0.0	0.0	99.50	24.15	0.00	0.0
F-11		Radiant 8S_16D700_W244S	100 %	110.00	24.15	5.45	0.0	-0.0	0.0	110.00	24.15	0.00	0.0
F-12		Radiant 8S_16D700_W244S	100 %	5.00	17.15	5.00	0.0	-0.0	0.0	5.00	17.15	0.00	0.0
F-13		Radiant 8S_16D700_W244S	100 %	15.50	17.15	5.00	0.0	-0.0	0.0	15.50	17.15	0.00	0.0
F-14		Radiant 8S_16D700_W244S	100 %	26.00	17.15	5.00	0.0	-0.0	0.0	26.00	17.15	0.00	0.0
F-15		Radiant 8S_16D700_W244S	100 %	36.50	17.15	5.00	0.0	-0.0	0.0	36.50	17.15	0.00	0.0
F-16		Radiant 8S_16D700_W244S	100 %	47.00	17.15	5.00	0.0	-0.0	0.0	47.00	17.15	0.00	0.0
F-17		Radiant 8S_16D700_W244S	100 %	57.50	17.15	5.00	0.0	-0.0	0.0	57.50	17.15	0.00	0.0
F-18		Radiant 8S_16D700_W244S	100 %	68.00	17.15	5.00	0.0	-0.0	0.0	68.00	17.15	0.00	0.0
F-19		Radiant 8S_16D700_W244S	100 %	78.50	17.15	5.00	0.0	-0.0	0.0	78.50	17.15	0.00	0.0
F-20		Radiant 8S_16D700_W244S	100 %	89.00	17.15	5.00	0.0	-0.0	0.0	89.00	17.15	0.00	0.0
F-21		Radiant 8S_16D700_W244S	100 %	99.50	17.15	5.00	0.0	-0.0	0.0	99.50	17.15	0.00	0.0
F-22		Radiant 8S_16D700_W244S	100 %	110.00	17.15	5.00	0.0	-0.0	0.0	110.00	17.15	0.00	0.0
F-23		Radiant 8S_16D700_W244S	100 %	5.00	10.00	5.35	0.0	-0.0	0.0	5.00	10.00	0.00	0.0
F-24		Radiant 8S_16D700_W244S	100 %	15.50	10.00	5.35	0.0	-0.0	0.0	15.50	10.00	0.00	0.0
F-25		Radiant 8S_16D700_W244S	100 %	26.00	10.00	5.35	0.0	-0.0	0.0	26.00	10.00	0.00	0.0
F-26		Radiant 8S_16D700_W244S	100 %	36.50	10.00	5.35	0.0	-0.0	0.0	36.50	10.00	0.00	0.0
F-27		Radiant 8S_16D700_W244S	100 %	47.00	10.00	5.35	0.0	-0.0	0.0	47.00	10.00	0.00	0.0
F-28		Radiant 8S_16D700_W244S	100 %	57.50	10.00	5.35	0.0	-0.0	0.0	57.50	10.00	0.00	0.0
F-29		Radiant 8S_16D700_W244S	100 %	68.00	10.00	5.35	0.0	-0.0	0.0	68.00	10.00	0.00	0.0
F-30		Radiant 8S_16D700_W244S	100 %	78.50	10.00	5.35	0.0	-0.0	0.0	78.50	10.00	0.00	0.0
F-31		Radiant 8S_16D700_W244S	100 %	89.00	10.00	5.35	0.0	-0.0	0.0	89.00	10.00	0.00	0.0
F-32		Radiant 8S_16D700_W244S	100 %	99.50	10.00	5.35	0.0	-0.0	0.0	99.50	10.00	0.00	0.0
F-33		Radiant 8S_16D700_W244S	100 %	110.00	10.00	5.35	0.0	-0.0	0.0	110.00	10.00	0.00	0.0
F-34		Radiant 8S_16D700_W244S	100 %	5.00	3.00	5.00	0.0	-0.0	0.0	5.00	3.00	0.00	0.0

Struttura	Rif.	Codice Apparecchio	Dimmer	Posizione Apparecchi x[m] y[m] z[m]	Rotazione Apparecchi rx[°] ry[°] rz[°]	Puntamenti x[m] y[m] z[m]	R.Asse [°]
	F-35	Radiant 8S 16D700_W244S	100 %	15.50 3.00 5.00	0.0 -0.0 0.0	15.50 3.00 0.00	0.0
	F-36	Radiant 8S 16D700_W244S	100 %	26.00 3.00 5.00	0.0 -0.0 0.0	26.00 3.00 0.00	0.0
	F-37	Radiant 8S 16D700_W244S	100 %	36.50 3.00 5.00	0.0 -0.0 0.0	36.50 3.00 0.00	0.0
	F-38	Radiant 8S 16D700_W244S	100 %	47.00 3.00 5.00	0.0 -0.0 0.0	47.00 3.00 0.00	0.0
	F-39	Radiant 8S 16D700_W244S	100 %	57.50 3.00 5.00	0.0 -0.0 0.0	57.50 3.00 0.00	0.0
	F-40	Radiant 8S 16D700_W244S	100 %	68.00 3.00 5.00	0.0 -0.0 0.0	68.00 3.00 0.00	0.0
	F-41	Radiant 8S 16D700_W244S	100 %	78.50 3.00 5.00	0.0 -0.0 0.0	78.50 3.00 0.00	0.0
	F-42	Radiant 8S 16D700_W244S	100 %	89.00 3.00 5.00	0.0 -0.0 0.0	89.00 3.00 0.00	0.0
	F-43	Radiant 8S 16D700_W244S	100 %	99.50 3.00 5.00	0.0 -0.0 0.0	99.50 3.00 0.00	0.0
	F-44	Radiant 8S 16D700_W244S	100 %	110.00 3.00 5.00	0.0 -0.0 0.0	110.00 3.00 0.00	0.0

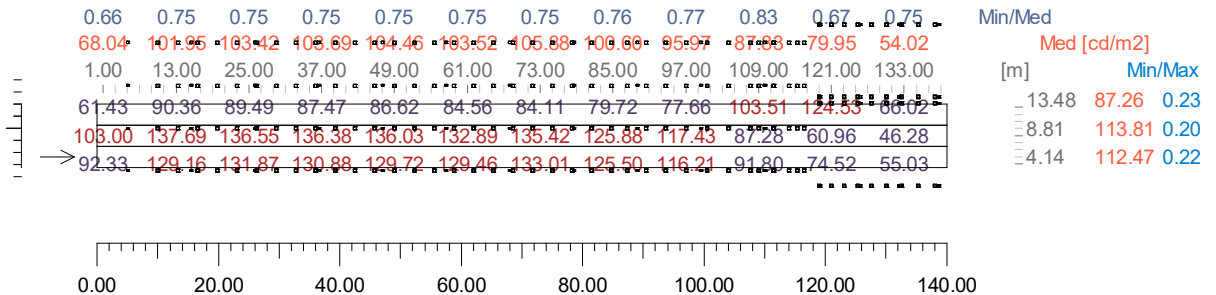
4. Tabelle dei Risultati

4.1 Valori delle Luminanze su: 3 - Tangenziale - Oss. 1 [x=-60.00 y=5.31] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	93.31 cd/m2	24.37 cd/m2	148.63 cd/m2	0.26	0.16	0.63

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

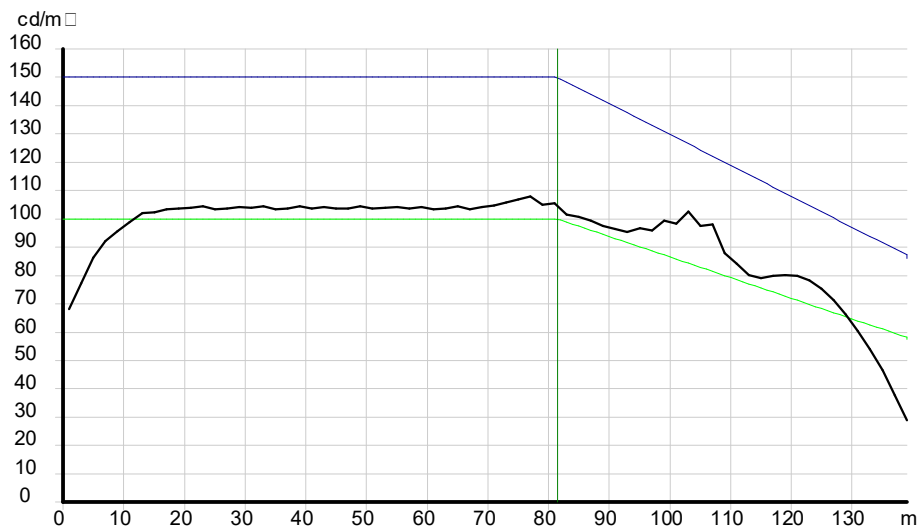


4.2 Curva di Luminanza su: 3 - Tangenziale - Oss. 1 [x=-60.00 y=5.31] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	93.31 cd/m ²	24.37 cd/m ²	148.63 cd/m ²	0.26	0.16	0.63

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

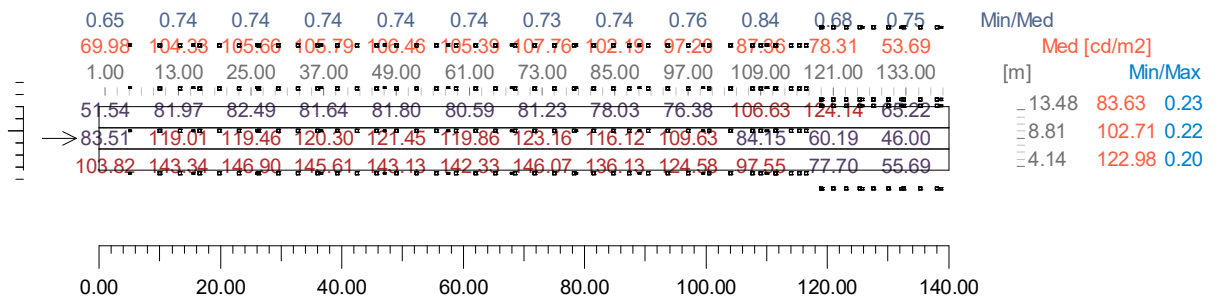


4.3 Valori delle Luminanze su: 3 - Tangenziale - Oss. 2 [x=-60.00 y=8.81] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	94.56 cd/m2	24.39 cd/m2	153.09 cd/m2	0.26	0.16	0.62

Osservatore
Tipo Calcolo

[x=-60.00 y=8.81 z=1.50] m => [x=30.00 y=8.81 z=0.00] m
Dir.+Indir. (Accuratezza:2)

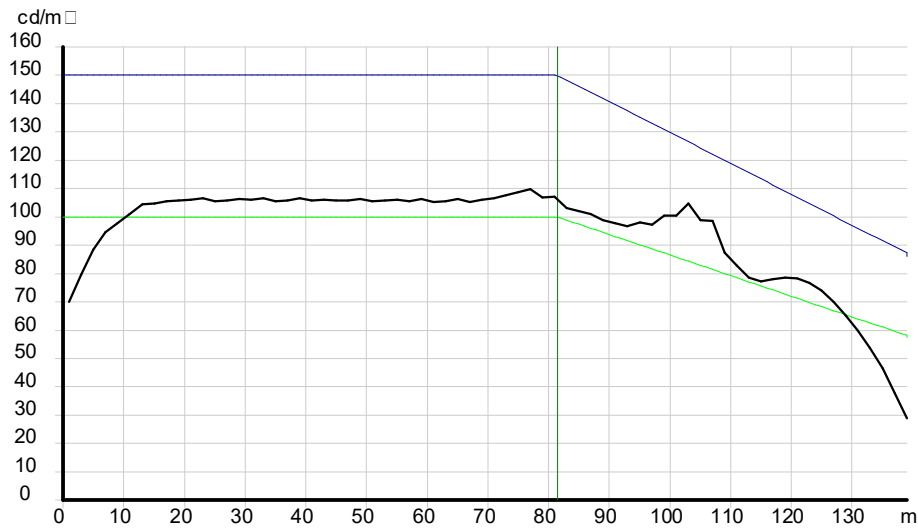


4.4 Curva di Luminanza su: 3 - Tangenziale - Oss. 2 [x=-60.00 y=8.81] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	94.56 cd/m ²	24.39 cd/m ²	153.09 cd/m ²	0.26	0.16	0.62

Osservatore
Tipo Calcolo

[x=-60.00 y=8.81 z=1.50] m => [x=30.00 y=8.81 z=0.00] m
Dir.+Iindir. (Accuratezza:2)

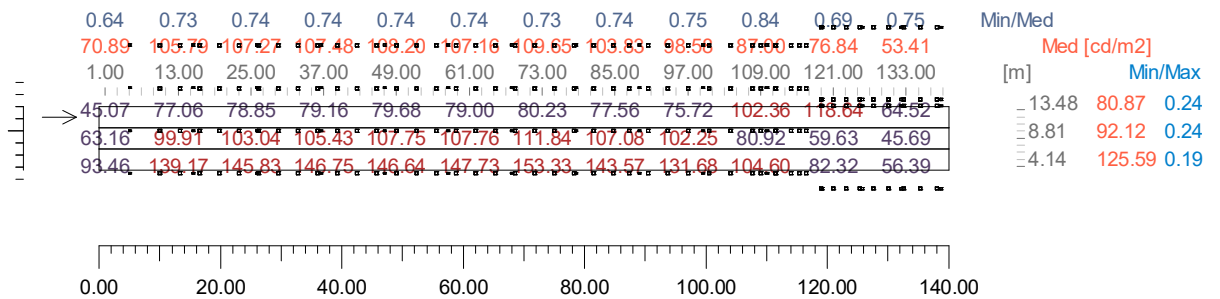


4.5 Valori delle Luminanze su: 3 - Tangenziale - Oss. 3 [x=-60.00 y=12.31] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	95.58 cd/m2	24.43 cd/m2	154.68 cd/m2	0.26	0.16	0.62

Osservatore
Tipo Calcolo

[x=-60.00 y=12.31 z=1.50] m => [x=30.00 y=12.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

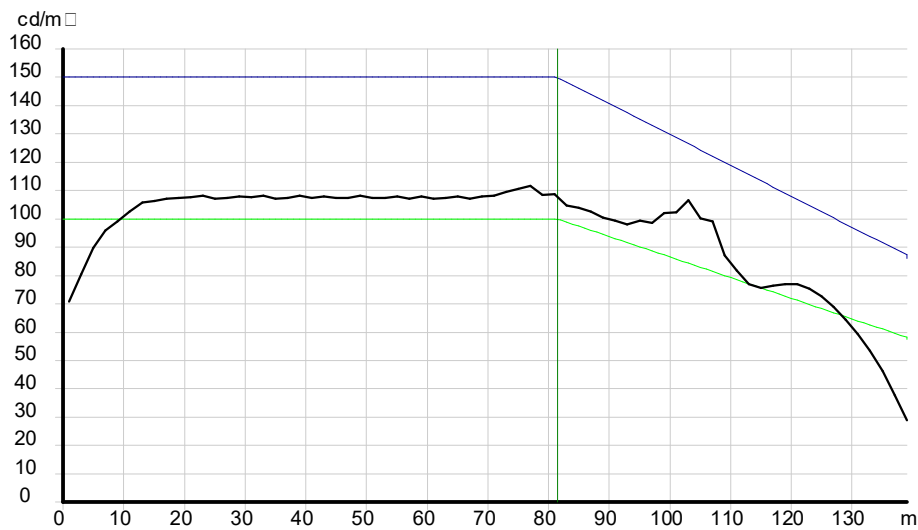


4.6 Curva di Luminanza su: 3 - Tangenziale - Oss. 3 [x=-60.00 y=12.31] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	95.58 cd/m ²	24.43 cd/m ²	154.68 cd/m ²	0.26	0.16	0.62

Osservatore
Tipo Calcolo

[x=-60.00 y=12.31 z=1.50] m => [x=30.00 y=12.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

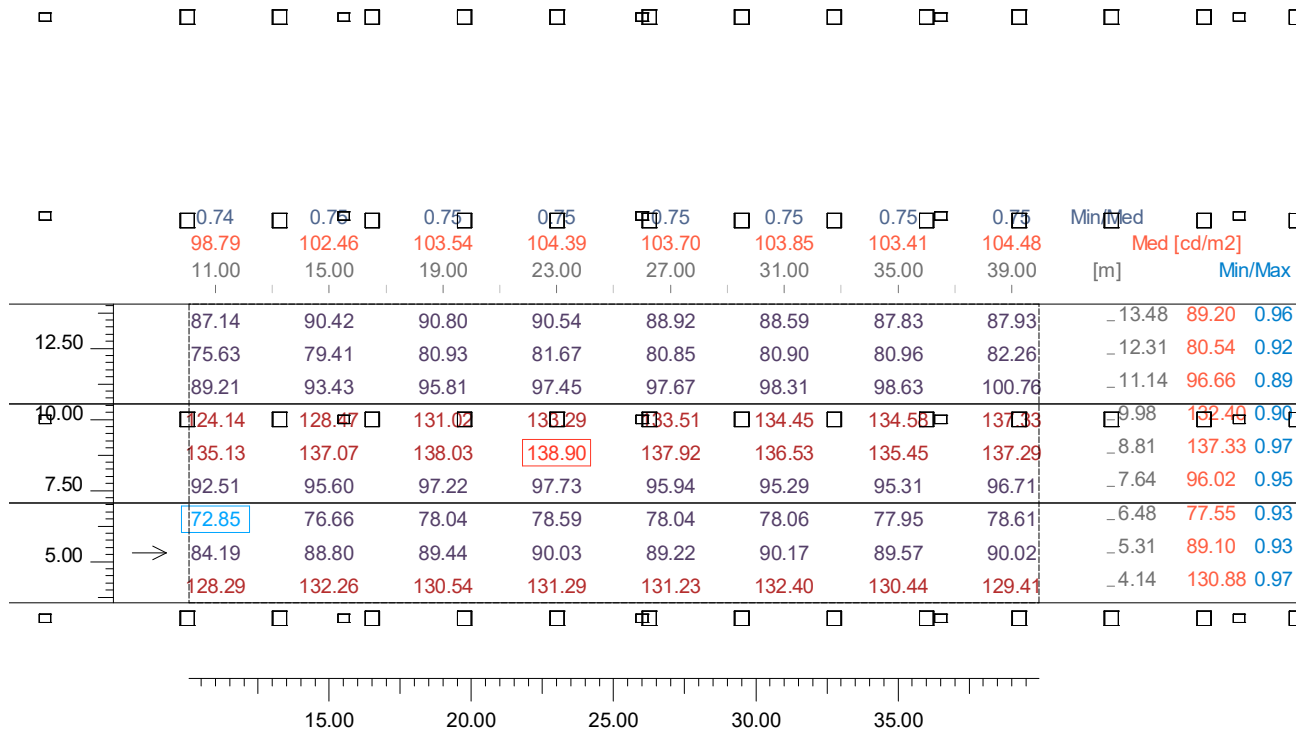


4.7 Valori delle Luminanze su: 3 - Tangenziale [L (10-40) (Tangenziale - Sezione 2)] - Oss. 1 [x=-60.00 y=...

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	103.30 cd/m2	72.85 cd/m2	138.90 cd/m2	0.71	0.52	0.74

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

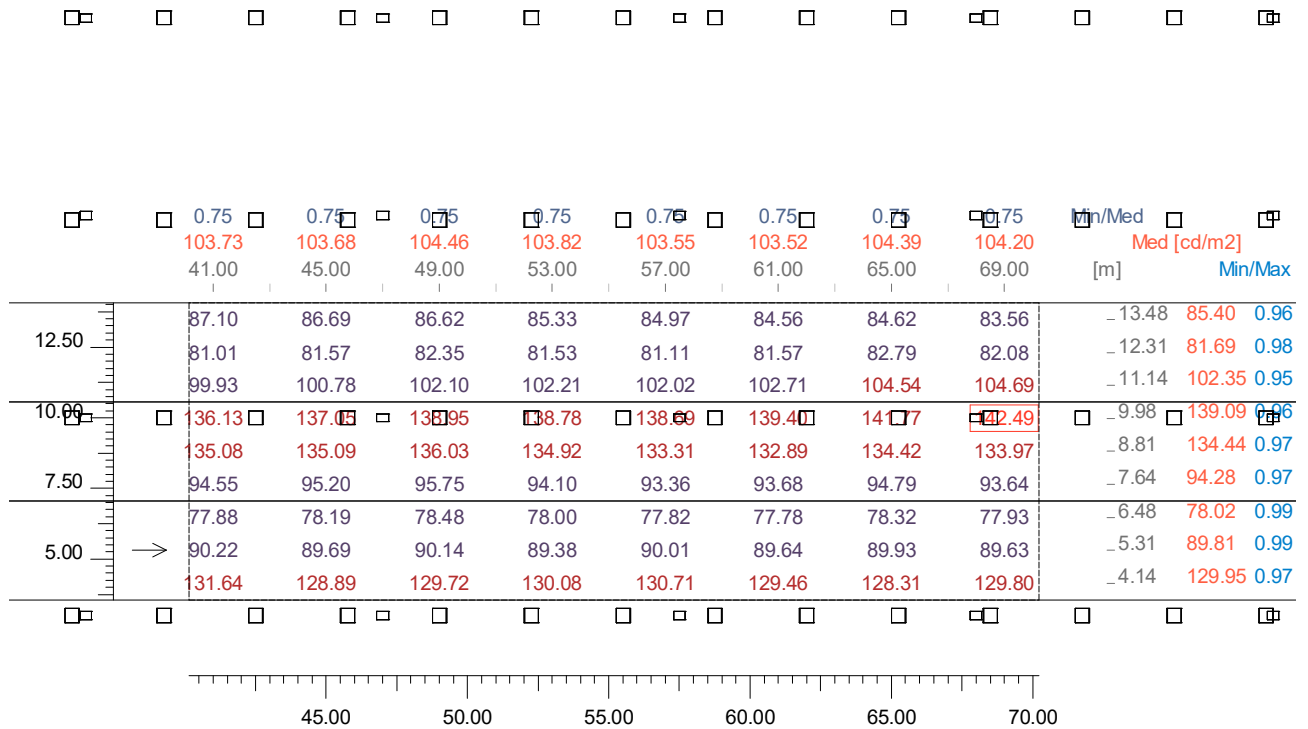


4.8 Valori delle Luminanze su: 3 - Tangenziale [L (40-70m) (Tangenziale - Sezione 2)] - Oss. 1 [x=-60.00

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	103.89 cd/m2	77.55 cd/m2	142.49 cd/m2	0.75	0.54	0.73

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

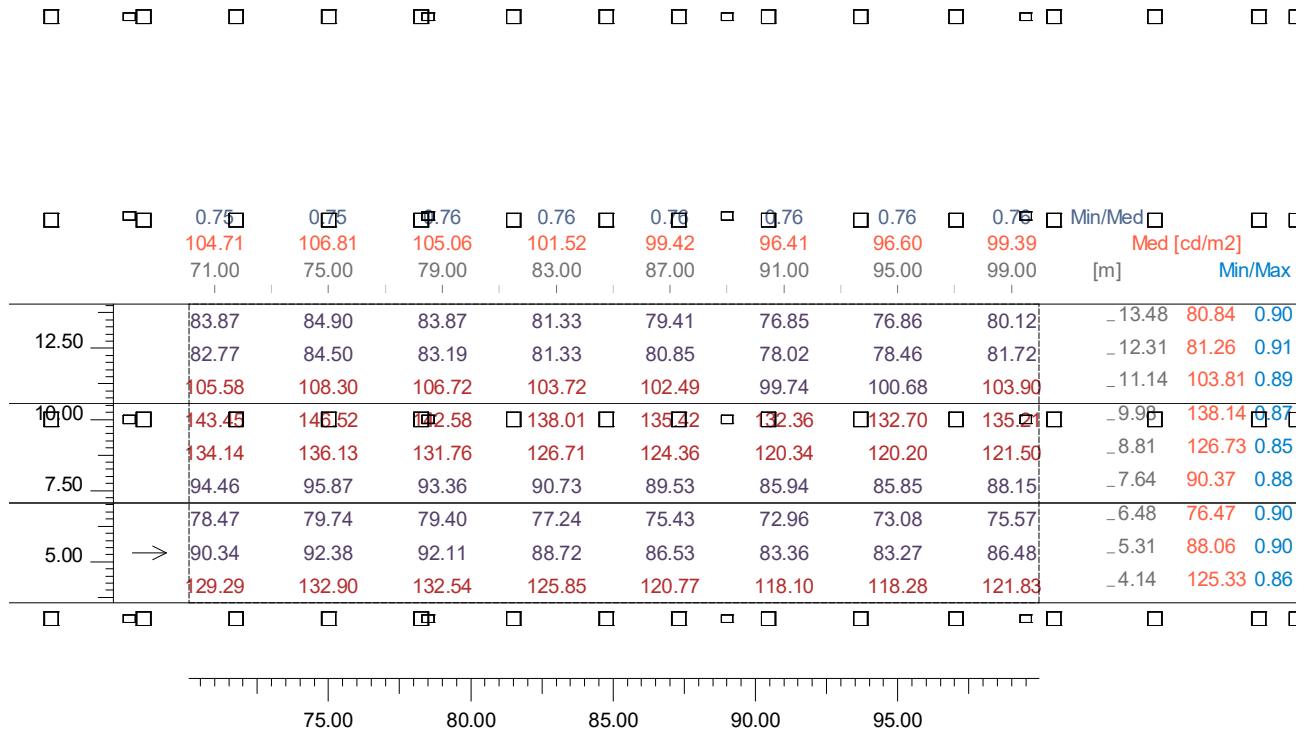


4.9 Valori delle Luminanze su: 3 - Tangenziale [L (70-100m) (Tangenziale - Sezione 2)] - Oss. 1 [x=-60.0

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	101.22 cd/m2	72.61 cd/m2	148.63 cd/m2	0.72	0.49	0.68

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

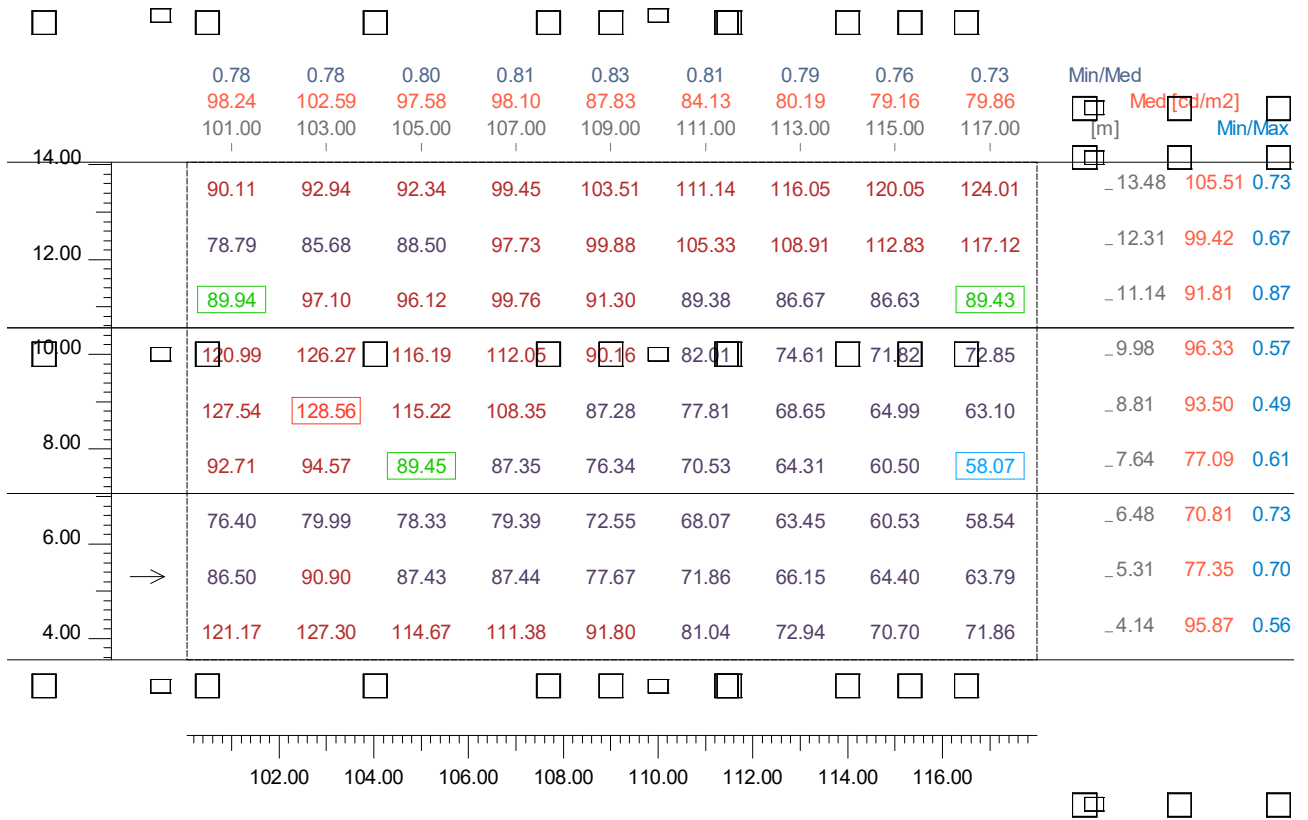


4.10 Valori delle Luminanze su: 3 - Tangenziale [L (100-117) (Tangenziale - Sezione 2)] - Oss. 1 [x=-60.0

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	89.74 cd/m2	58.07 cd/m2	128.56 cd/m2	0.65	0.45	0.70

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

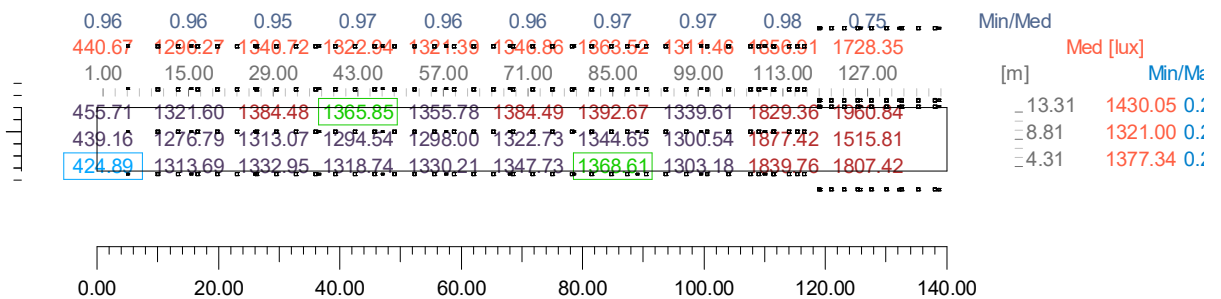


4.11 Valori di Illuminamento su: 3 - Tangenziale

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1368.18 lx	424.89 lx	2296.98 lx	0.31	0.18	0.60

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

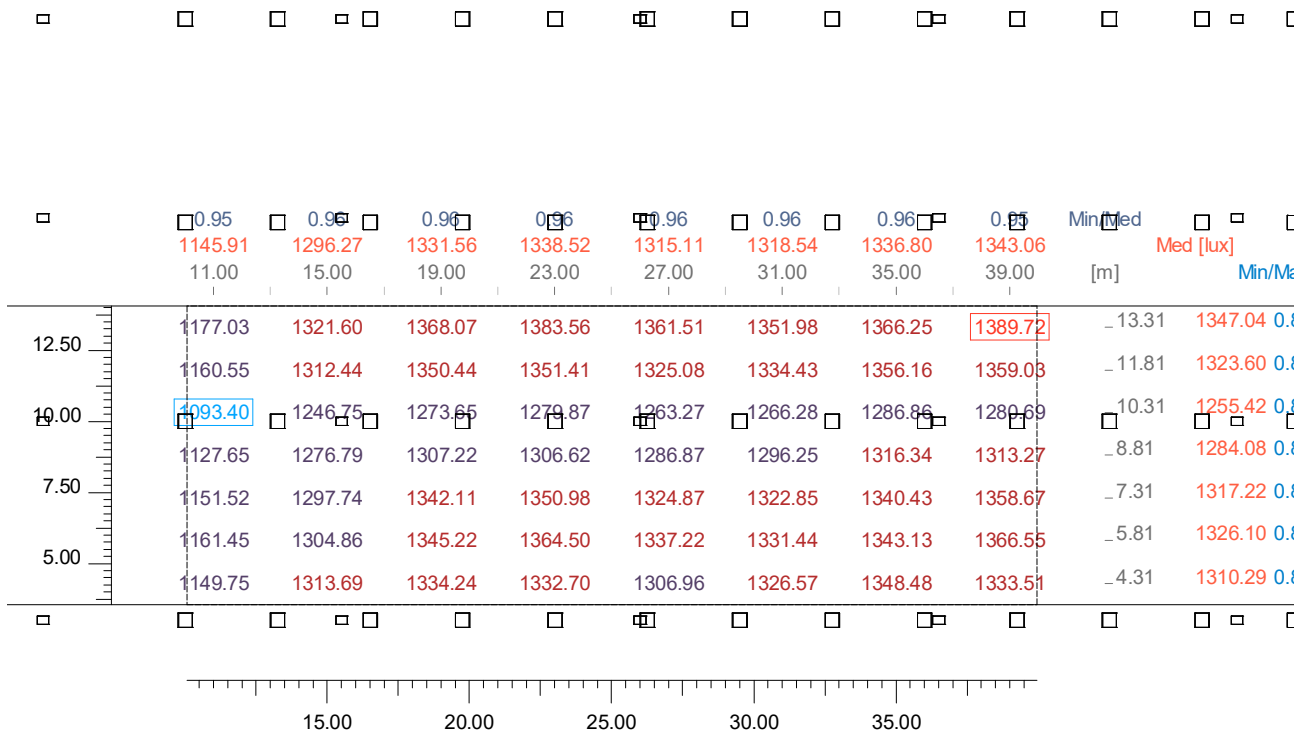


4.12 Valori di Illuminamento su: 3 - Tangenziale [L (10-40) (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1309.11 lx	1093.40 lx	1389.72 lx	0.84	0.79	0.94

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

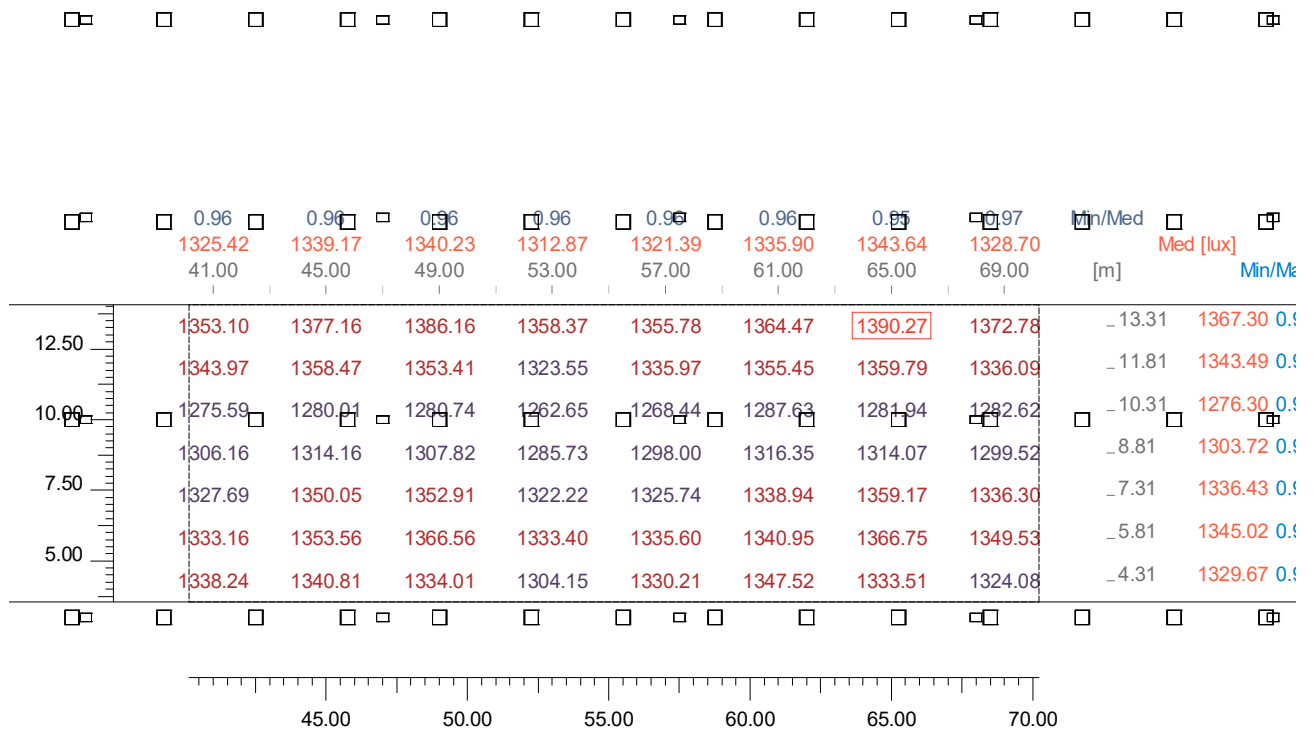


4.13 Valori di Illuminamento su: 3 - Tangenziale [L (40-70m) (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1328.85 lx	1256.38 lx	1390.27 lx	0.95	0.90	0.96

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

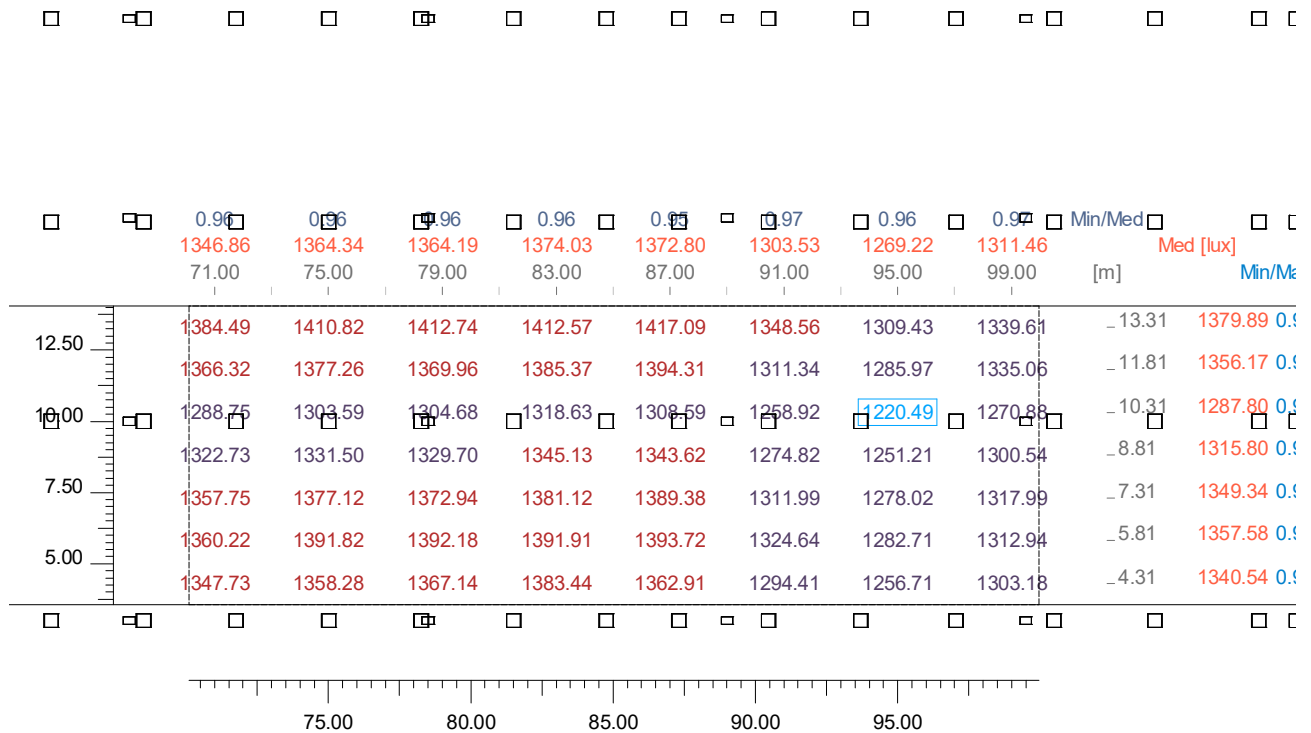


4.14 Valori di Illuminamento su: 3 - Tangenziale [L (70-100m) (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1341.02 lx	1220.49 lx	1446.03 lx	0.91	0.84	0.93

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



4.15 Valori di Illuminamento su: 3 - Tangenziale [L (100-117) (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1689.77 lx	1302.14 lx	2045.36 lx	0.77	0.64	0.83

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

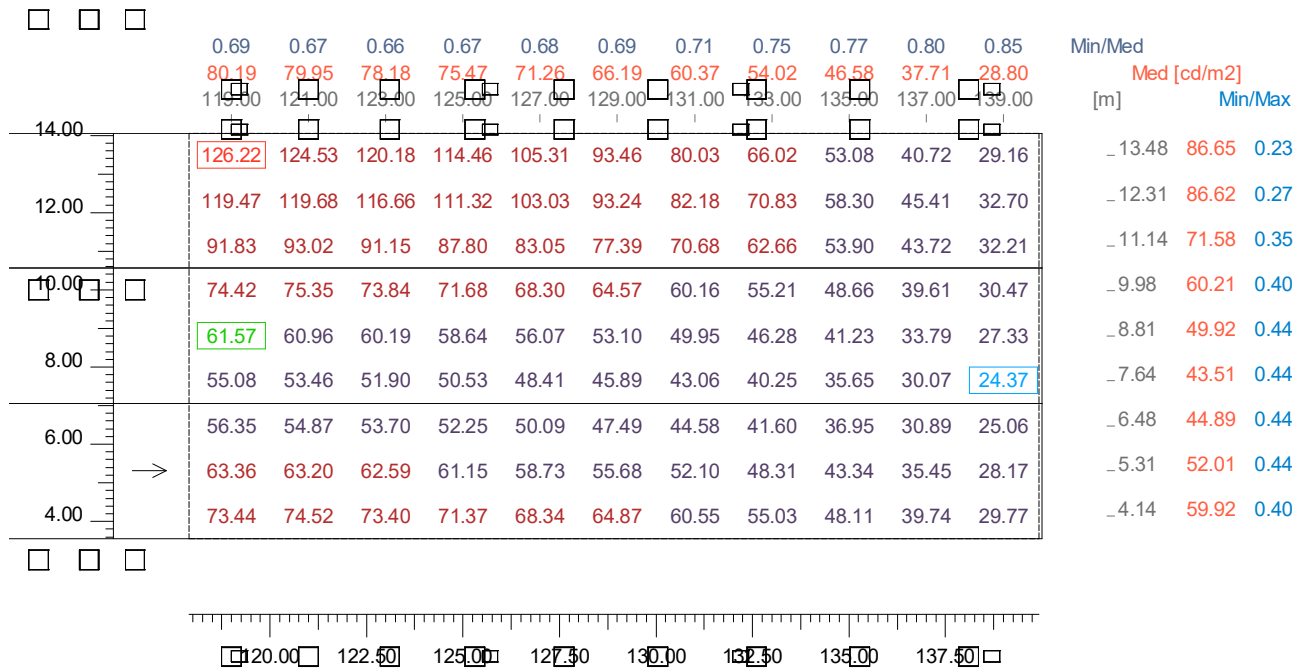


4.16 Valori delle Luminanze su: 3 - Tangenziale [L (117-140m) (Tangenziale - Sezione 1)] - Oss. 1 [x=-60

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	61.70 cd/m2	24.37 cd/m2	126.22 cd/m2	0.39	0.19	0.49

Osservatore
Tipo Calcolo

[x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

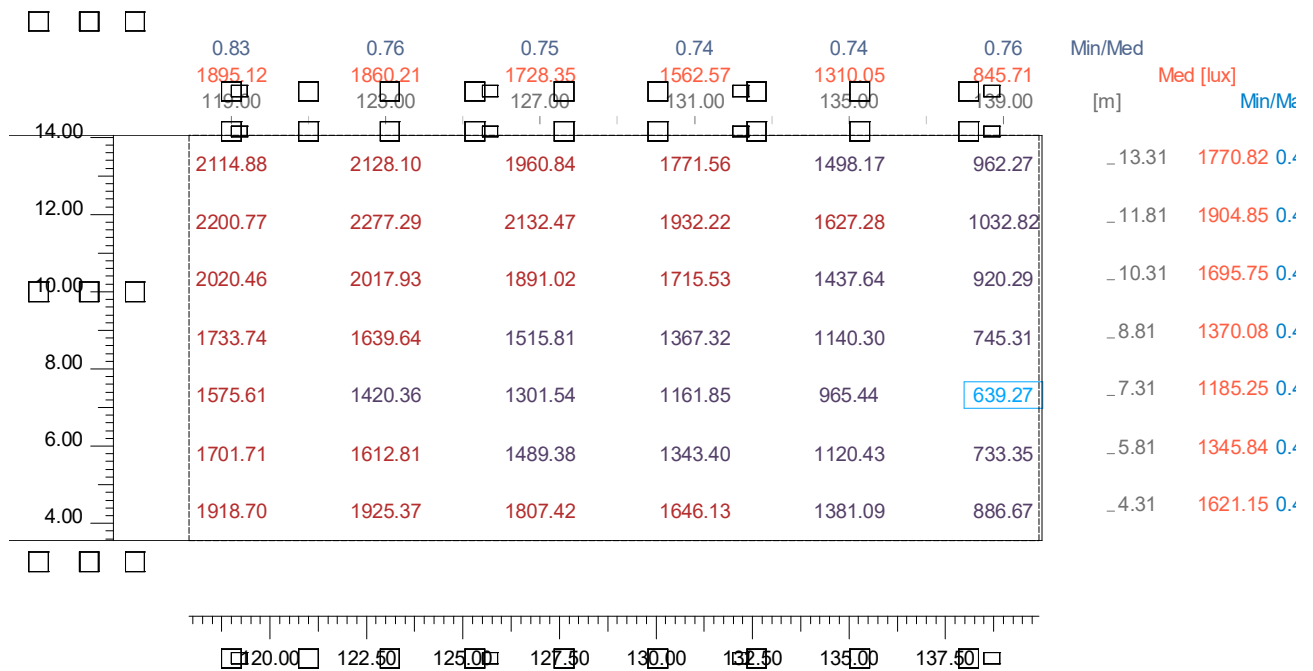


4.17 Valori di Illuminamento su: 3 - Tangenziale [L (117-140m) (Tangenziale - Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	1556.25 lx	639.27 lx	2296.98 lx	0.41	0.28	0.68

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



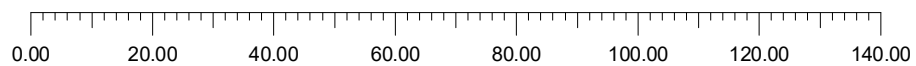
4.18 Valori delle Luminanze su: Parete Virtuale Destra - Oss. 2 (Lambert) [x=-60.00 y=5.31] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	81.88 cd/m ²	17.36 cd/m ²	133.46 cd/m ²	0.21	0.13	0.61

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

Min/Med	1.00	0.99	0.96	0.98	1.00	0.96	0.97	0.98	0.97	0.95	0.99	0.97	
Med [cd/m ²]	60.94	88.76	90.61	91.68	89.74	90.51	95.90	91.18	92.11	106.45	42.36	19.74	
Min/Max [m]	133.00	121.00	109.00	97.00	85.00	73.00	61.00	49.00	37.00	25.00	13.00	1.00	
0.16 79.84 1.00 =>	61.14	87.70	87.03	90.03	89.46	87.01	92.86	89.16	89.42	101.50	42.13	19.07	□ 0.00



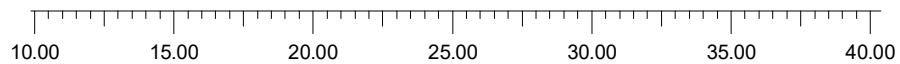
4.19 Valori delle Luminanze su: Parete Virtuale Destra [Lpd (10-40m) (Tangenziale - Sezione 2)] - Oss. 2

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	89.95 cd/m2	78.40 cd/m2	96.69 cd/m2	0.87	0.81	0.93

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

Min/Med	0.95	0.95	0.95	1.00	0.97	0.96	0.97	1.00		
Med [cd/m2]	82.95	89.00	88.76	90.94	92.78	90.61	89.46	90.61		
Min/Max [m]	129.00	125.00	121.00	117.00	113.00	109.00	105.00	101.00		
0.87 87.80 1.00	78.40	85.31	87.70	90.63	89.80	87.03	87.11	90.59		0.00



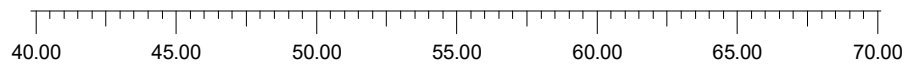
4.20 Valori delle Luminanze su: Parete Virtuale Destra [Lpd (40-70m) (Tangenziale - Sezione 2)] - Oss. 2

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	90.85 cd/m2	86.24 cd/m2	96.60 cd/m2	0.95	0.89	0.94

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

	0.96	0.95	1.00	0.97	0.95	0.97	1.00	0.98				
Min/Med	0.96	0.95	1.00	0.97	0.95	0.97	1.00	0.98				
Med [cd/m2]	89.95	89.43	91.33	92.02	91.37	88.88	90.24	92.56				
Min/Max [m]	99.00	95.00	91.00	87.00	83.00	79.00	75.00	71.00				
	0.95	88.69	1.00									
				86.65	88.26	91.05	89.27	87.47	86.64	90.22	90.80	0.00



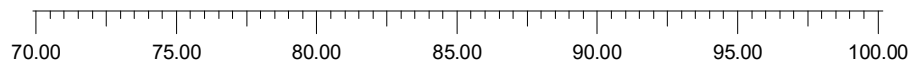
4.21 Valori delle Luminanze su: Parete Virtuale Destra [Lpd (70-100m) (Tangenziale - Sezione 2)] - Oss.

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	91.29 cd/m2	84.03 cd/m2	99.95 cd/m2	0.92	0.84	0.91

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

	0.90	0.95	1.00	1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50
Min/Max	0.90	0.95	1.00	1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50
Med [cd/m2]	89.26	91.79	95.90	94.31	94.01	91.18	87.99	87.41					
Min/Max [m]	69.00	65.00	61.00	57.00	53.00	49.00	45.00	41.00					
	0.90	88.99	1.00	→	88.19	91.86	92.86	90.96	92.84	89.16	84.23	84.03	0.00

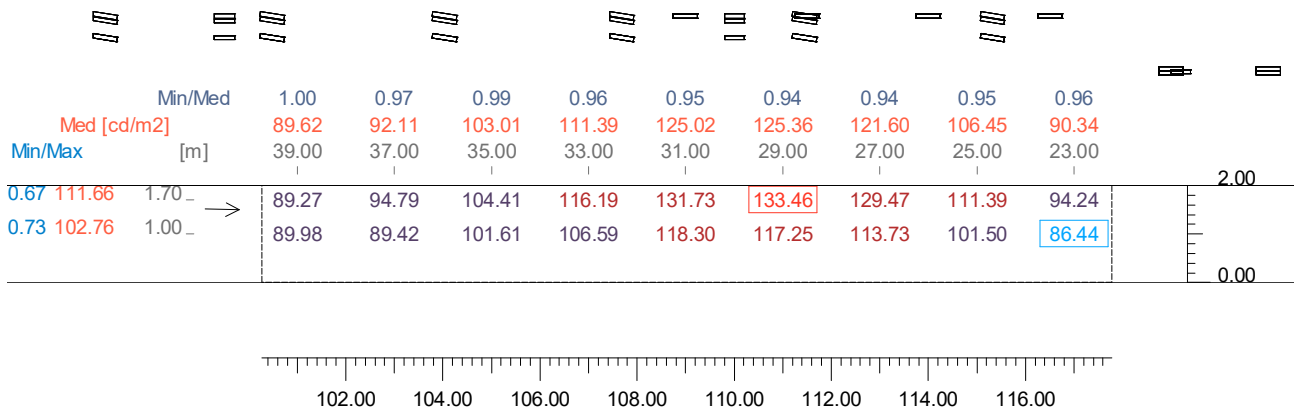


4.22 Valori delle Luminanze su: Parete Virtuale Destra [Lpd (100-117m) (Tangenziale - Sezione 2)] - Oss

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	107.21 cd/m ²	86.44 cd/m ²	133.46 cd/m ²	0.81	0.65	0.80

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

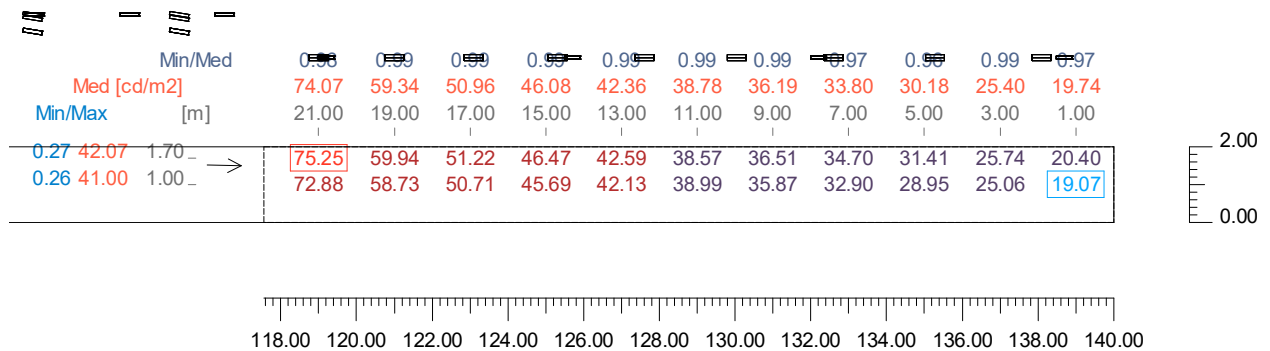


4.23 Valori delle Luminanze su: Parete Virtuale Destra [Lpd (117-140m) (Tangenziale - Sezione 1)] - Oss

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza L	41.54 cd/m2	19.07 cd/m2	75.25 cd/m2	0.46	0.25	0.55

Osservatore
Tipo Calcolo

(Lambert) [x=-60.00 y=5.31 z=1.50] m => [x=30.00 y=5.31 z=0.00] m
Dir.+Indir. (Accuratezza:2)

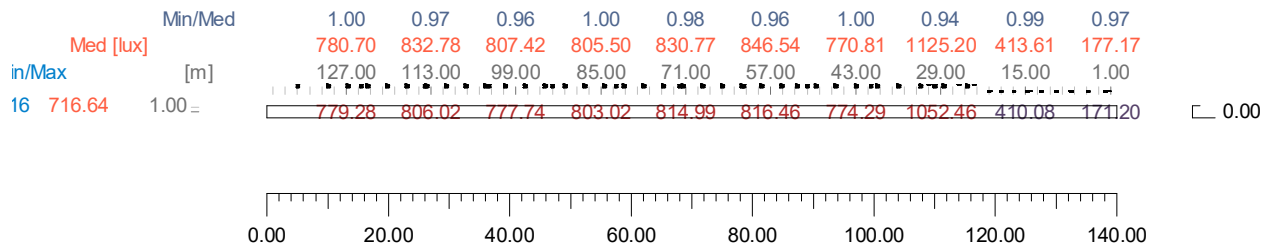


4.24 Valori di Illuminamento su: Parete Virtuale Destra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	734.92 lx	155.82 lx	1197.95 lx	0.21	0.13	0.61

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

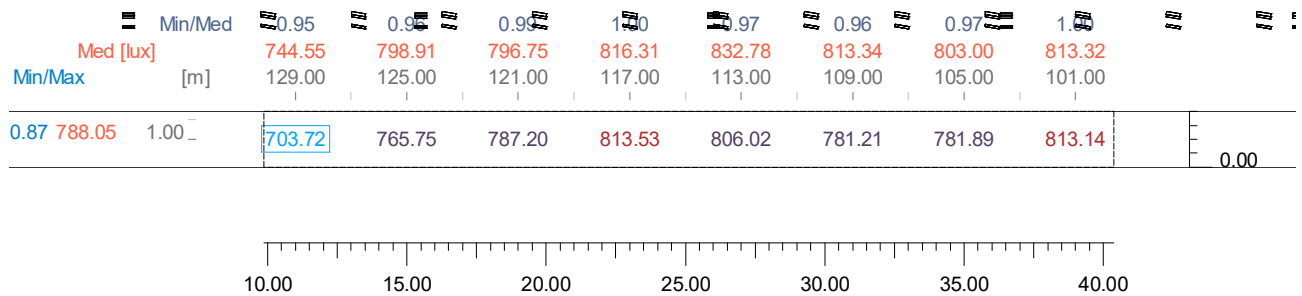


4.25 Valori di Illuminamento su: Parete Virtuale Destra [Lpd (10-40m) (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	807.37 lx	703.72 lx	867.91 lx	0.87	0.81	0.93

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

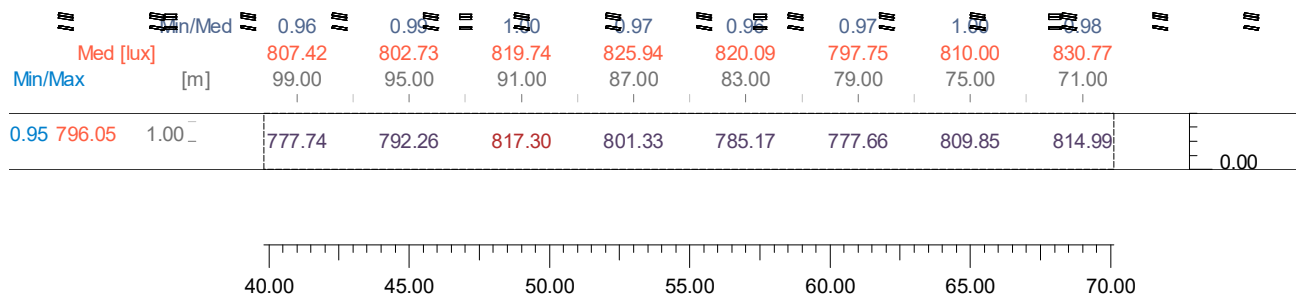


4.26 Valori di Illuminamento su: Parete Virtuale Destra [Lpd (40-70m) (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	815.51 lx	774.08 lx	867.07 lx	0.95	0.89	0.94

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

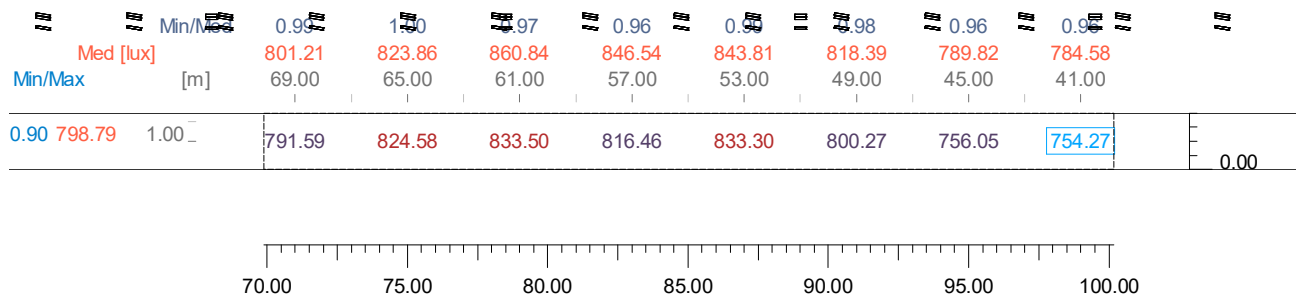


4.27 Valori di Illuminamento su: Parete Virtuale Destra [Lpd (70-100m) (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	819.42 lx	754.27 lx	897.13 lx	0.92	0.84	0.91

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

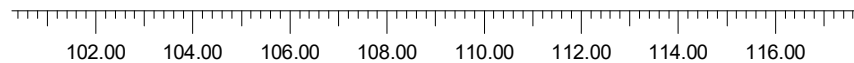


4.28 Valori di Illuminamento su: Parete Virtuale Destra [Lpd (100-117m) (Tangenziale - Sezione 2)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	962.32 lx	775.93 lx	1197.95 lx	0.81	0.65	0.80

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

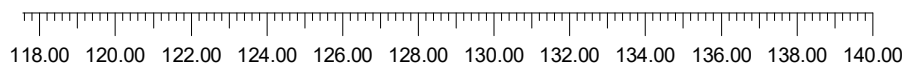
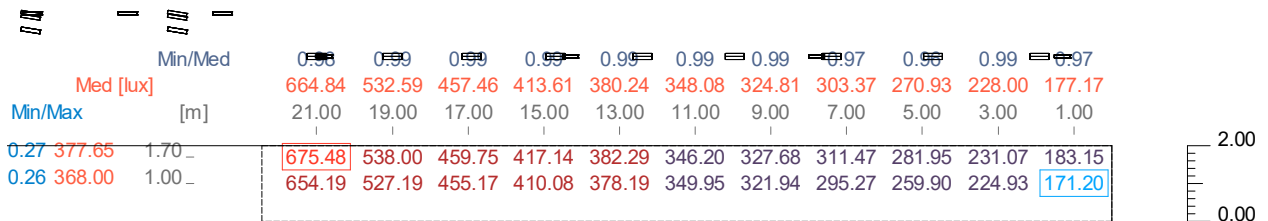


4.29 Valori di Illuminamento su: Parete Virtuale Destra [Lpd (117-140m) (Tangenziale - Sezione 1)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale (E)	372.83 lx	171.20 lx	675.48 lx	0.46	0.25	0.55

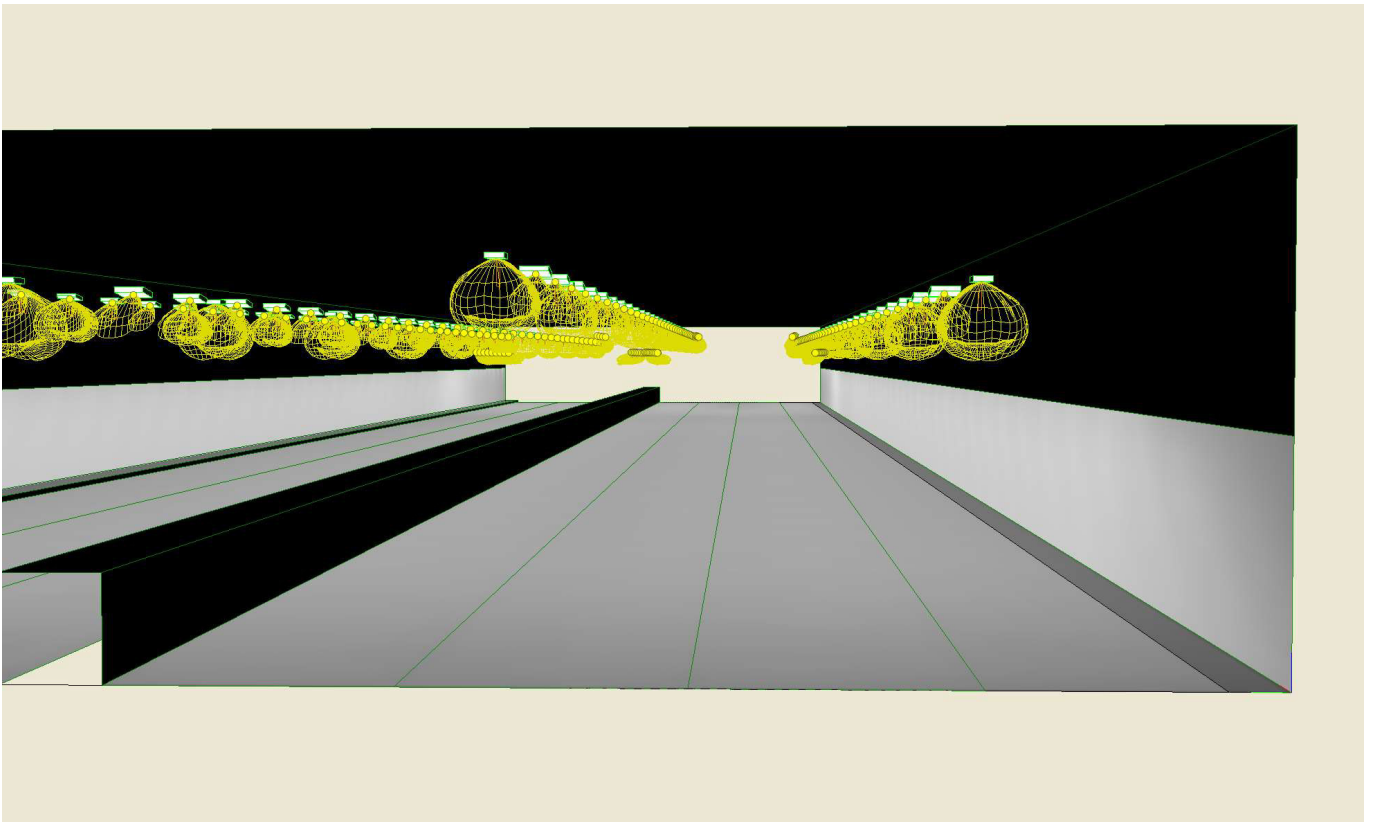
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

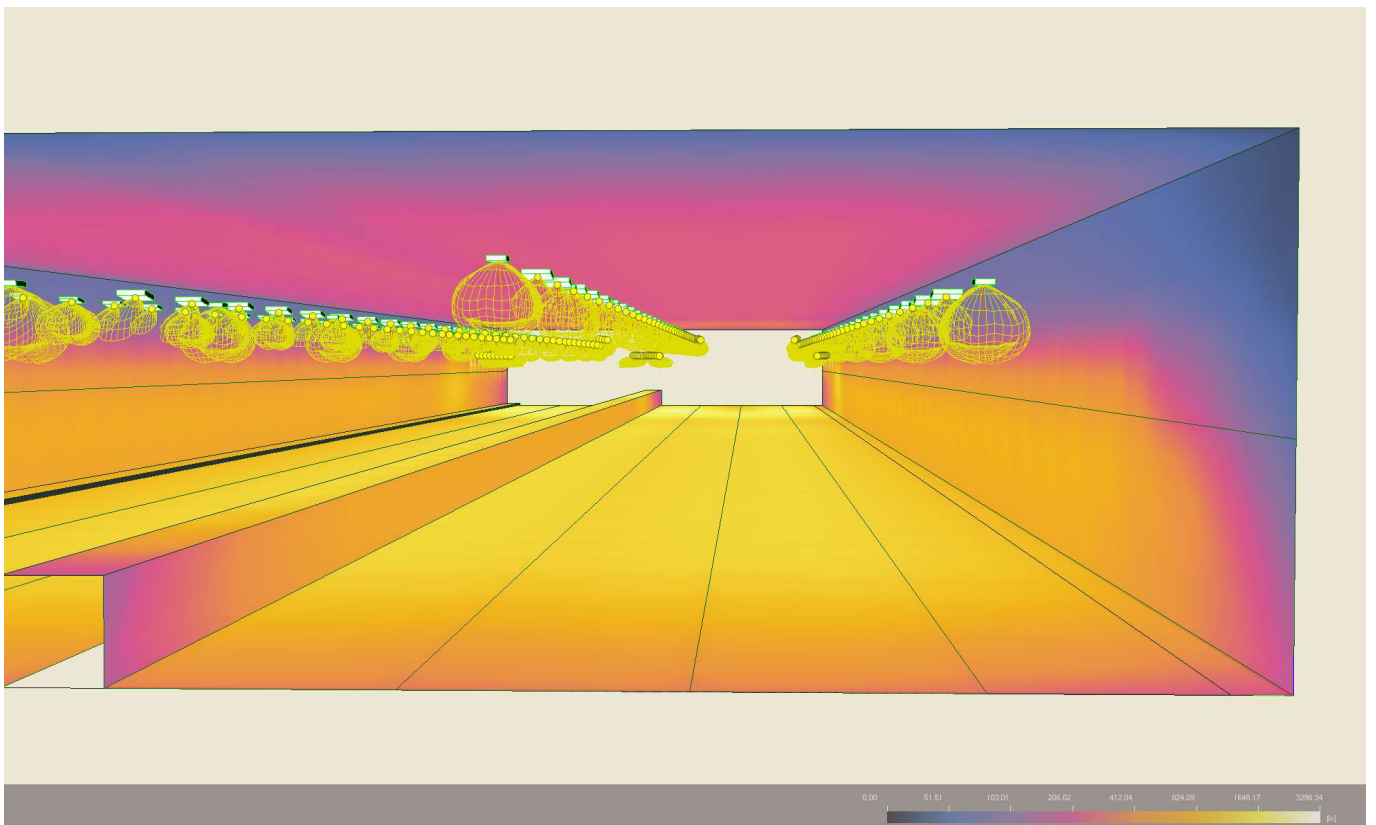


5. Immagini

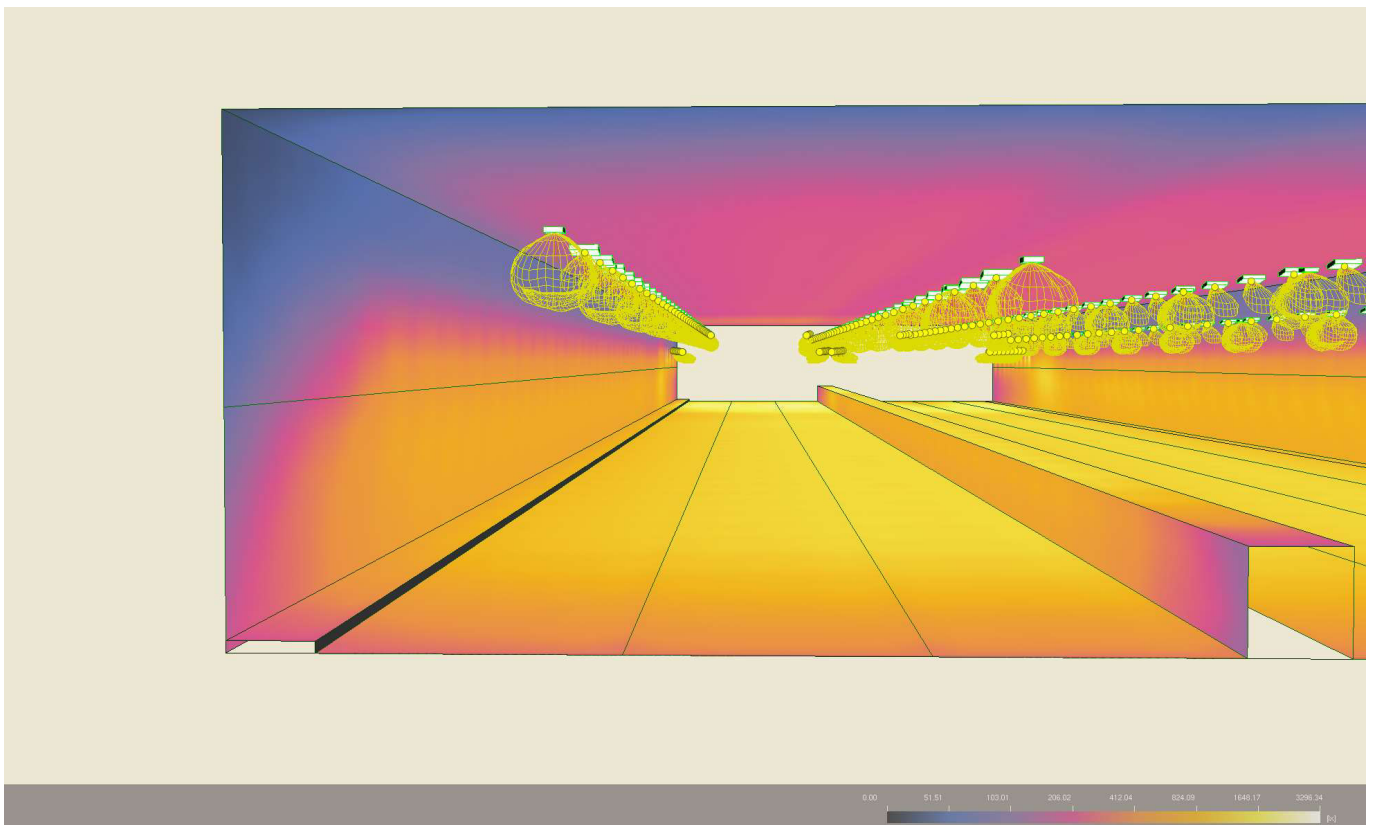
5.1 Immagini



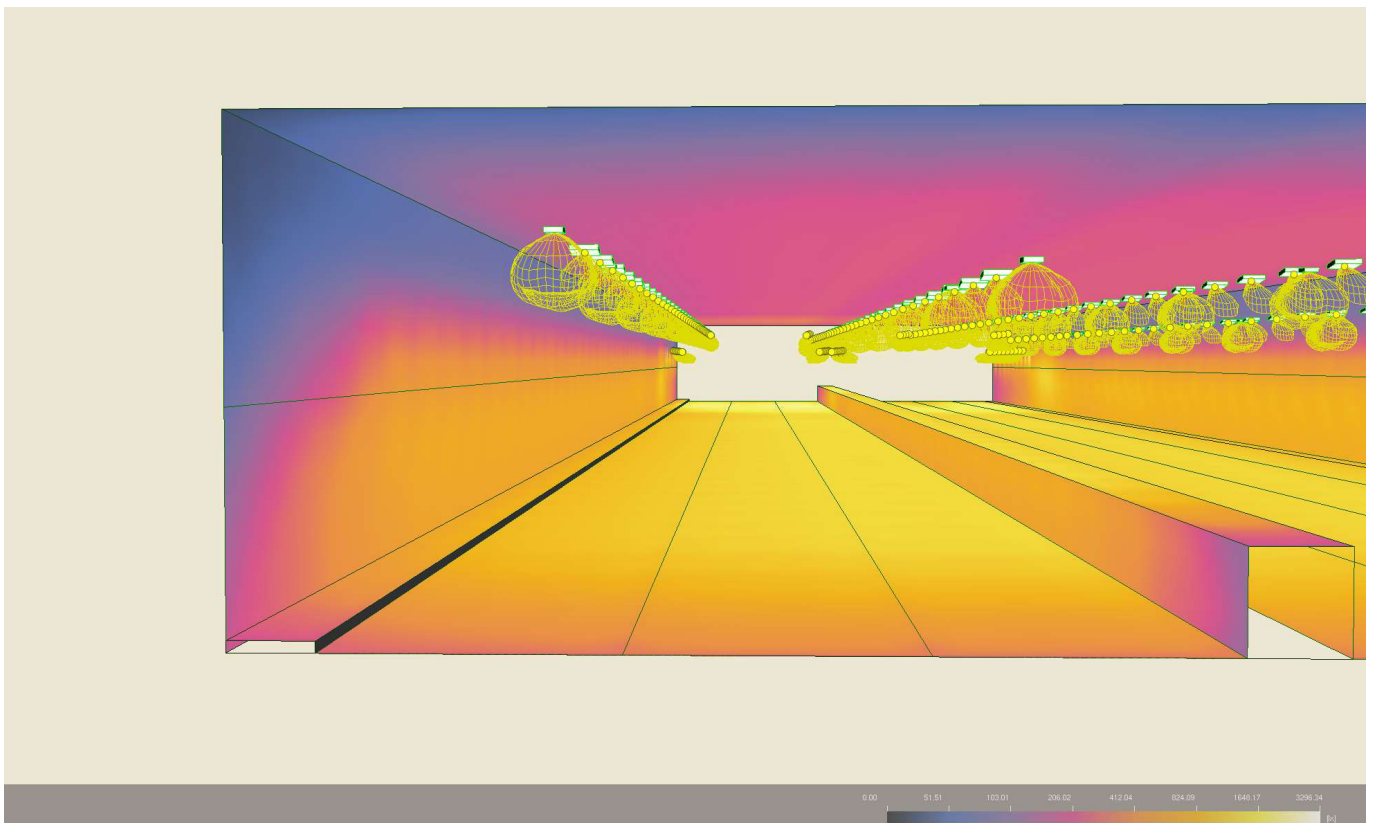
5.2 Immagini



5.3 Immagini



5.4 Immagini



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