

## 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

## TANGENZIALE NORD E SUD



### OPERE D' ARTE MAGGIORI

## SEMI-GALLERIA FONICA CROCE DEL BIACCO - NORD

### Calcoli Illuminotecnici

<b>IL PROGETTISTA SPECIALISTICO</b>  Ing. Enrico Franzese Ord. Ingg. Firenze N. 7706 Sezione A  Responsabile Impianti	<b>IL RESPONSABILE INTEGRAZIONE PRESTAZIONI SPECIALISTICHE</b>  Ing. Raffaele Rinaldesi Ord. Ingg. Macerata N. A1068	<b>IL DIRETTORE TECNICO</b>  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	CF2	IM001	IMP00	R	OPT	0234	- 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    <b>Ministero delle Infrastrutture e dei Trasporti</b> <small>DIPARTIMENTO PER LE INFRASTRUTTURE, GLI AFFARI GENERALI ED IL PERSONALE STRUTTURA DI VIGILANZA SULLE CONCESSIONARIE AUTOSTRADALI</small>
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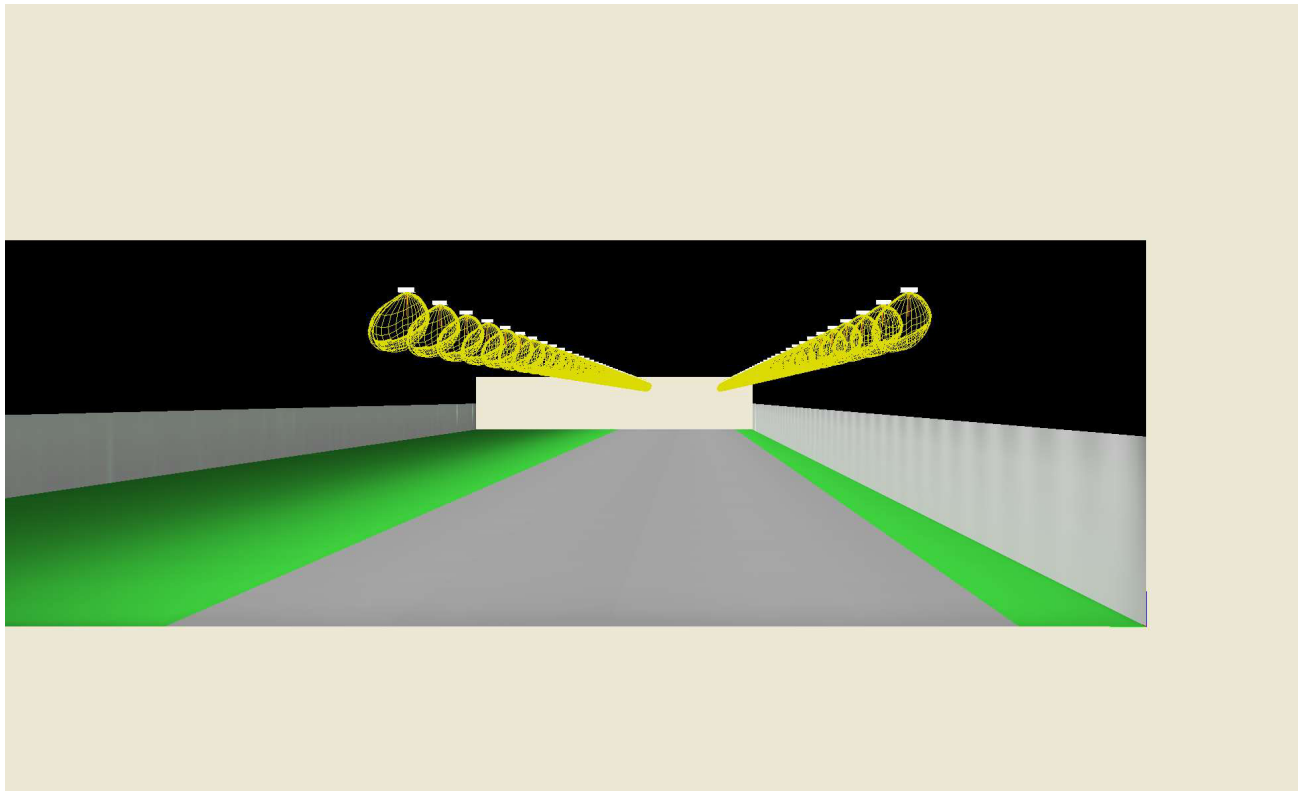
## Galleria Croce del Biacco

Note Installazione: Permanente  
Cliente: Autostrade per l'Italia  
Codice Progetto: DL21P187  
Data: 24/05/2021

### Note

UNI 11095-2021  
Manto stradale C2 - Q0: 0,0560  
Riflessione pareti 40%  
H. galleria 6.1m  
Fattore di manutenzione 80%  
H. corpi illuminanti 5.4m

Li = 2.25 cd/mq



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

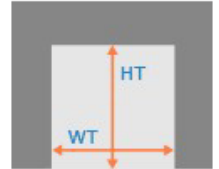
Avvertenze:

# 1. Dati Riepilogativi Progetto e Risultati

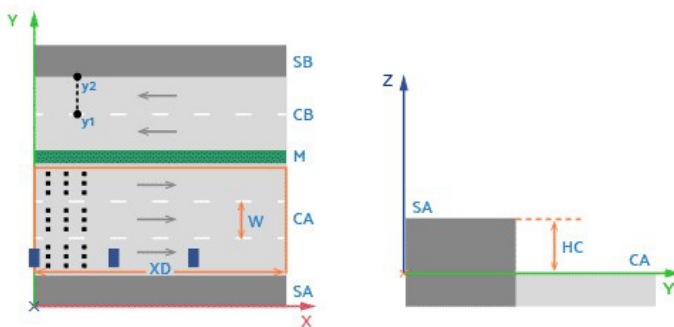
## 1.1 Informazioni Area

Osservatore Mobile

Fornice Cubo (A)  
Larghezza (WT) 31.90 m  
Altezza (HT) 6.10 m  
Alt.Parete Attiva 3.00 m  
Col.Parete Attiva (255,255,255) 35%  
Colore Soffitto (0,0,0) 0%

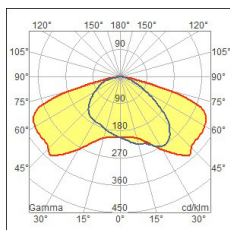


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Generica	Secondaria	Striscia di margine	--->	2.00	0.00	2.00	3	3	0.00		0.7600
2. Carreggiata	Carrabile	Corsia d'Emergenza	--->	3.00	2.00	5.00	3	3	0.00	C2	0.0560
3. Carreggiata A Carrabile				10.50	5.00	15.50	7		0.00	C2	0.0560
		3.1 Corsia 1	--->	3.50	5.00	8.50		3			
		3.2 Corsia 2	--->	3.50	8.50	12.00		3			
		3.3 Corsia 3	--->	3.50	12.00	15.50		3			
4. Generica	Secondaria	Striscia di margine	--->	16.40	15.50	31.90	11	3	0.00		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 32D440_W279A (Radiant 8S 32D440_W279A)	Radiant 8S 32D440_W279A (Radiant 8S 32D440_W279A)	6604.00	0.80	100 %	255,255,255	88	Sorg-A	1

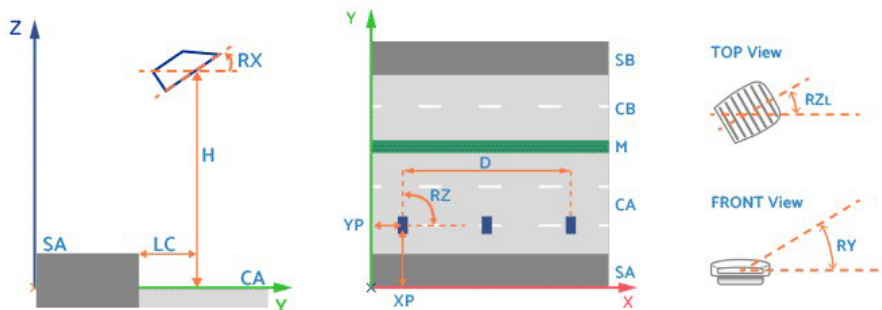


### 1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		32D440 43W	32D440 43W	43.00	0.0000	6604	6000	88

### 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 A	A		5.00	3.50	5.40	44	10.00	0.00	430.00	0	0	0
Fila B	A		5.00	12.00	5.40	44	10.00	0.00	430.00	0	0	0



### 1.5 Risultati dei Calcoli e Parametri di Uniformità

#### Riepilogo Risultati dei Calcoli

EN 13201:2015

2 - Carreggiata	Risultati	LAV = 3.31 cd/m <sup>2</sup>	Uo(L) = 0.28	UL = 0.27	fTI = 9 %
	Oss. 1) [x=-86.00 y=3.50] m	LAV = 3.31 cd/m <sup>2</sup> *	Uo(L) = 0.28 *	UL = 0.27 *	
	Oss.Ti 1) [x=-5.73 y=3.50] m				fTI = 8.66 % *
	Lv = 0.37				
3 - Carreggiata A	Risultati	LAV = 2.70 cd/m <sup>2</sup>	Uo(L) = 0.31	UL = 0.33	fTI = 9 %
	Oss. 1) [x=-86.00 y=6.75] m	LAV = 2.70 cd/m <sup>2</sup> *	Uo(L) = 0.33	UL = 0.41	
	Oss. 2) [x=-86.00 y=10.25] m	LAV = 2.77 cd/m <sup>2</sup>	Uo(L) = 0.32	UL = 0.35	
	Oss. 3) [x=-86.00 y=13.75] m	LAV = 2.85 cd/m <sup>2</sup>	Uo(L) = 0.31 *	UL = 0.33 *	
	Oss.Ti 1) [x=-5.73 y=6.75] m				fTI = 8.56 %
	Oss.Ti 2) [x=-5.73 y=10.25] m				fTI = 8.00 %
	Oss.Ti 3) [x=-5.73 y=13.75] m				fTI = 9.21 % *
	Lv = 0.32				

#### Riepilogo Uniformità di Luminanz

Sezione Permanente	[10.00..430.00] m	(Luminanza Costante)		
Parete Destra	LAV%,(pd/c,o1) = 103.9 %	LAV,pd=3.49 cd/m <sup>2</sup>	Uo,pd=0.88	Ul,pd=0.36 (y=1.70 m)
Parete Sinistra	LAV%,(ps/c,o1) = 7.4 %	LAV,ps=0.25 cd/m <sup>2</sup>	Uo,ps=0.79	Ul,ps=0.74 (y=1.70 m)
2 - Carreggiata	--->	LAV,c,o1=3.36 cd/m <sup>2</sup>	Uo,c,o1=0.73	Ul,o1=0.75 (y=3.50 m)
3 - Carreggiata A	--->	LAV,c,o1=2.73 cd/m <sup>2</sup>	Uo,c,o1=0.66	Ul,o3=0.82 (y=13.75 m)
--->	Oss. 1) [x=-86.00 y=6.75] m	LAV,c,o1=2.73 cd/m <sup>2</sup> *	Uo,c,o1=0.66 *	Ul,o1=0.86 (y=6.75 m)
--->	Oss. 2) [x=-86.00 y=10.25] m	LAV,c,o2=2.81 cd/m <sup>2</sup>	Uo,c,o2=0.67	Ul,o2=0.83 (y=10.25 m)
--->	Oss. 3) [x=-86.00 y=13.75] m	LAV,c,o3=2.89 cd/m <sup>2</sup>	Uo,c,o3=0.67	Ul,o3=0.82 (y=13.75 m)

Galleria Croce del Biacco  
Lorenzo Mazza

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24/05/2021  
+39 3332619382

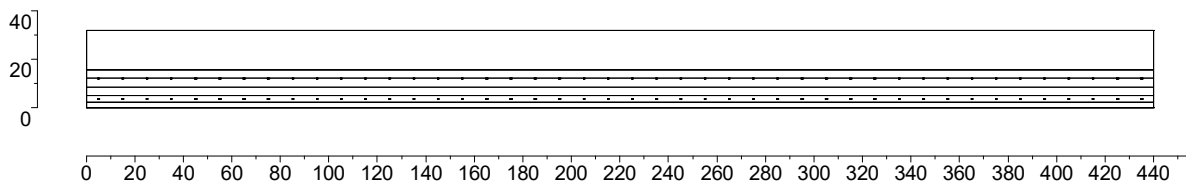
pd: Parete Destra      ps: Parete Sinistra      c: Carreggiata      cm: Corsie di Marcia  $U_{l,03}=0.82$  ( $y=13.75$  m)  
md: Marciapiede Destro      ms: Marciapiede Sinistro      o: Osservatore

**Inquinamento Luminoso**

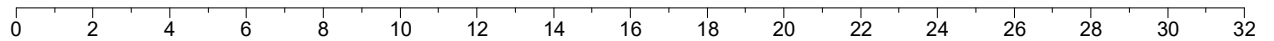
Rapporto Medio - $R_n$ -
0.00 %

## 2. Viste Ambiente

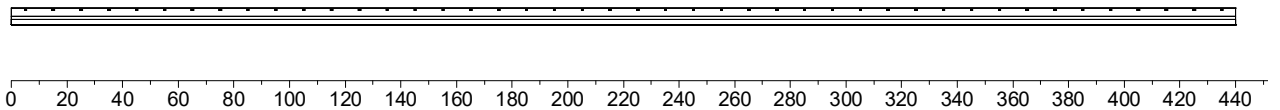
### 2.1 Vista 2D in Pianta



## 2.2 Vista Laterale



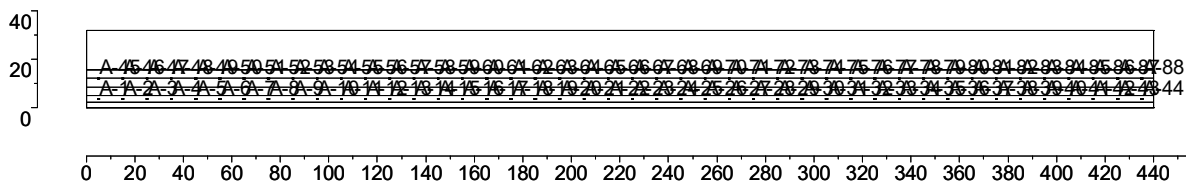
## 2.3 Vista Frontale





### 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	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-2	100 %	15.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-3	100 %	25.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-4	100 %	35.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-5	100 %	45.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-6	100 %	55.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-7	100 %	65.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-8	100 %	75.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-9	100 %	85.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-10	100 %	95.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-11	100 %	105.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-12	100 %	115.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-13	100 %	125.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-14	100 %	135.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-15	100 %	145.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-16	100 %	155.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-17	100 %	165.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-18	100 %	175.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-19	100 %	185.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-20	100 %	195.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-21	100 %	205.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-22	100 %	215.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-23	100 %	225.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-24	100 %	235.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-25	100 %	245.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-26	100 %	255.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-27	100 %	265.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-28	100 %	275.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-29	100 %	285.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-30	100 %	295.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-31	100 %	305.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-32	100 %	315.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-33	100 %	325.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-34	100 %	335.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-35	100 %	345.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-36	100 %	355.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-37	100 %	365.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-38	100 %	375.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-39	100 %	385.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-40	100 %	395.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-41	100 %	405.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-42	100 %	415.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-43	100 %	425.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-44	100 %	435.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-45	100 %	5.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-46	100 %	15.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-47	100 %	25.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-48	100 %	35.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-49	100 %	45.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-50	100 %	55.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-51	100 %	65.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-52	100 %	75.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-53	100 %	85.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-54	100 %	95.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-55	100 %	105.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-56	100 %	115.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-57	100 %	125.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-58	100 %	135.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-59	100 %	145.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-60	100 %	155.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-61	100 %	165.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-62	100 %	175.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-63	100 %	185.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-64	100 %	195.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-65	100 %	205.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-66	100 %	215.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-67	100 %	225.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
A-68	100 %	235.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-69	100 %	245.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-70	100 %	255.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-71	100 %	265.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-72	100 %	275.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-73	100 %	285.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-74	100 %	295.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-75	100 %	305.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-76	100 %	315.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-77	100 %	325.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-78	100 %	335.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-79	100 %	345.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-80	100 %	355.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-81	100 %	365.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-82	100 %	375.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-83	100 %	385.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-84	100 %	395.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-85	100 %	405.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-86	100 %	415.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-87	100 %	425.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
A-88	100 %	435.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W

### 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 32D440_W279A	100 %	5.00	3.50	5.40	0.0	-0.0	0.0	5.00	3.50	-0.00	0.0
A-2		Radiant 8S 32D440_W279A	100 %	15.00	3.50	5.40	0.0	-0.0	0.0	15.00	3.50	-0.00	0.0
A-3		Radiant 8S 32D440_W279A	100 %	25.00	3.50	5.40	0.0	-0.0	0.0	25.00	3.50	-0.00	0.0
A-4		Radiant 8S 32D440_W279A	100 %	35.00	3.50	5.40	0.0	-0.0	0.0	35.00	3.50	-0.00	0.0
A-5		Radiant 8S 32D440_W279A	100 %	45.00	3.50	5.40	0.0	-0.0	0.0	45.00	3.50	-0.00	0.0
A-6		Radiant 8S 32D440_W279A	100 %	55.00	3.50	5.40	0.0	-0.0	0.0	55.00	3.50	-0.00	0.0
A-7		Radiant 8S 32D440_W279A	100 %	65.00	3.50	5.40	0.0	-0.0	0.0	65.00	3.50	-0.00	0.0
A-8		Radiant 8S 32D440_W279A	100 %	75.00	3.50	5.40	0.0	-0.0	0.0	75.00	3.50	-0.00	0.0
A-9		Radiant 8S 32D440_W279A	100 %	85.00	3.50	5.40	0.0	-0.0	0.0	85.00	3.50	-0.00	0.0
A-10		Radiant 8S 32D440_W279A	100 %	95.00	3.50	5.40	0.0	-0.0	0.0	95.00	3.50	-0.00	0.0
A-11		Radiant 8S 32D440_W279A	100 %	105.00	3.50	5.40	0.0	-0.0	0.0	105.00	3.50	-0.00	0.0
A-12		Radiant 8S 32D440_W279A	100 %	115.00	3.50	5.40	0.0	-0.0	0.0	115.00	3.50	-0.00	0.0
A-13		Radiant 8S 32D440_W279A	100 %	125.00	3.50	5.40	0.0	-0.0	0.0	125.00	3.50	-0.00	0.0
A-14		Radiant 8S 32D440_W279A	100 %	135.00	3.50	5.40	0.0	-0.0	0.0	135.00	3.50	-0.00	0.0
A-15		Radiant 8S 32D440_W279A	100 %	145.00	3.50	5.40	0.0	-0.0	0.0	145.00	3.50	-0.00	0.0
A-16		Radiant 8S 32D440_W279A	100 %	155.00	3.50	5.40	0.0	-0.0	0.0	155.00	3.50	-0.00	0.0
A-17		Radiant 8S 32D440_W279A	100 %	165.00	3.50	5.40	0.0	-0.0	0.0	165.00	3.50	-0.00	0.0
A-18		Radiant 8S 32D440_W279A	100 %	175.00	3.50	5.40	0.0	-0.0	0.0	175.00	3.50	-0.00	0.0
A-19		Radiant 8S 32D440_W279A	100 %	185.00	3.50	5.40	0.0	-0.0	0.0	185.00	3.50	-0.00	0.0
A-20		Radiant 8S 32D440_W279A	100 %	195.00	3.50	5.40	0.0	-0.0	0.0	195.00	3.50	-0.00	0.0
A-21		Radiant 8S 32D440_W279A	100 %	205.00	3.50	5.40	0.0	-0.0	0.0	205.00	3.50	-0.00	0.0
A-22		Radiant 8S 32D440_W279A	100 %	215.00	3.50	5.40	0.0	-0.0	0.0	215.00	3.50	-0.00	0.0
A-23		Radiant 8S 32D440_W279A	100 %	225.00	3.50	5.40	0.0	-0.0	0.0	225.00	3.50	-0.00	0.0
A-24		Radiant 8S 32D440_W279A	100 %	235.00	3.50	5.40	0.0	-0.0	0.0	235.00	3.50	-0.00	0.0
A-25		Radiant 8S 32D440_W279A	100 %	245.00	3.50	5.40	0.0	-0.0	0.0	245.00	3.50	-0.00	0.0
A-26		Radiant 8S 32D440_W279A	100 %	255.00	3.50	5.40	0.0	-0.0	0.0	255.00	3.50	-0.00	0.0
A-27		Radiant 8S 32D440_W279A	100 %	265.00	3.50	5.40	0.0	-0.0	0.0	265.00	3.50	-0.00	0.0
A-28		Radiant 8S 32D440_W279A	100 %	275.00	3.50	5.40	0.0	-0.0	0.0	275.00	3.50	-0.00	0.0
A-29		Radiant 8S 32D440_W279A	100 %	285.00	3.50	5.40	0.0	-0.0	0.0	285.00	3.50	-0.00	0.0
A-30		Radiant 8S 32D440_W279A	100 %	295.00	3.50	5.40	0.0	-0.0	0.0	295.00	3.50	-0.00	0.0
A-31		Radiant 8S 32D440_W279A	100 %	305.00	3.50	5.40	0.0	-0.0	0.0	305.00	3.50	-0.00	0.0
A-32		Radiant 8S 32D440_W279A	100 %	315.00	3.50	5.40	0.0	-0.0	0.0	315.00	3.50	-0.00	0.0
A-33		Radiant 8S 32D440_W279A	100 %	325.00	3.50	5.40	0.0	-0.0	0.0	325.00	3.50	-0.00	0.0
A-34		Radiant 8S 32D440_W279A	100 %	335.00	3.50	5.40	0.0	-0.0	0.0	335.00	3.50	-0.00	0.0
A-35		Radiant 8S 32D440_W279A	100 %	345.00	3.50	5.40	0.0	-0.0	0.0	345.00	3.50	-0.00	0.0
A-36		Radiant 8S 32D440_W279A	100 %	355.00	3.50	5.40	0.0	-0.0	0.0	355.00	3.50	-0.00	0.0
A-37		Radiant 8S 32D440_W279A	100 %	365.00	3.50	5.40	0.0	-0.0	0.0	365.00	3.50	-0.00	0.0
A-38		Radiant 8S 32D440_W279A	100 %	375.00	3.50	5.40	0.0	-0.0	0.0	375.00	3.50	-0.00	0.0
A-39		Radiant 8S 32D440_W279A	100 %	385.00	3.50	5.40	0.0	-0.0	0.0	385.00	3.50	-0.00	0.0
A-40		Radiant 8S 32D440_W279A	100 %	395.00	3.50	5.40	0.0	-0.0	0.0	395.00	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]	
A-41		Radiant 8S 32D440_W279A	100 %	405.00	3.50	5.40	0.0	-0.0	0.0	405.00	3.50	-0.00	0.0
A-42		Radiant 8S 32D440_W279A	100 %	415.00	3.50	5.40	0.0	-0.0	0.0	415.00	3.50	-0.00	0.0
A-43		Radiant 8S 32D440_W279A	100 %	425.00	3.50	5.40	0.0	-0.0	0.0	425.00	3.50	-0.00	0.0
A-44		Radiant 8S 32D440_W279A	100 %	435.00	3.50	5.40	0.0	-0.0	0.0	435.00	3.50	-0.00	0.0
A-45		Radiant 8S 32D440_W279A	100 %	5.00	12.00	5.40	0.0	-0.0	0.0	5.00	12.00	-0.00	0.0
A-46		Radiant 8S 32D440_W279A	100 %	15.00	12.00	5.40	0.0	-0.0	0.0	15.00	12.00	-0.00	0.0
A-47		Radiant 8S 32D440_W279A	100 %	25.00	12.00	5.40	0.0	-0.0	0.0	25.00	12.00	-0.00	0.0
A-48		Radiant 8S 32D440_W279A	100 %	35.00	12.00	5.40	0.0	-0.0	0.0	35.00	12.00	-0.00	0.0
A-49		Radiant 8S 32D440_W279A	100 %	45.00	12.00	5.40	0.0	-0.0	0.0	45.00	12.00	-0.00	0.0
A-50		Radiant 8S 32D440_W279A	100 %	55.00	12.00	5.40	0.0	-0.0	0.0	55.00	12.00	-0.00	0.0
A-51		Radiant 8S 32D440_W279A	100 %	65.00	12.00	5.40	0.0	-0.0	0.0	65.00	12.00	-0.00	0.0
A-52		Radiant 8S 32D440_W279A	100 %	75.00	12.00	5.40	0.0	-0.0	0.0	75.00	12.00	-0.00	0.0
A-53		Radiant 8S 32D440_W279A	100 %	85.00	12.00	5.40	0.0	-0.0	0.0	85.00	12.00	-0.00	0.0
A-54		Radiant 8S 32D440_W279A	100 %	95.00	12.00	5.40	0.0	-0.0	0.0	95.00	12.00	-0.00	0.0
A-55		Radiant 8S 32D440_W279A	100 %	105.00	12.00	5.40	0.0	-0.0	0.0	105.00	12.00	-0.00	0.0
A-56		Radiant 8S 32D440_W279A	100 %	115.00	12.00	5.40	0.0	-0.0	0.0	115.00	12.00	-0.00	0.0
A-57		Radiant 8S 32D440_W279A	100 %	125.00	12.00	5.40	0.0	-0.0	0.0	125.00	12.00	-0.00	0.0
A-58		Radiant 8S 32D440_W279A	100 %	135.00	12.00	5.40	0.0	-0.0	0.0	135.00	12.00	-0.00	0.0
A-59		Radiant 8S 32D440_W279A	100 %	145.00	12.00	5.40	0.0	-0.0	0.0	145.00	12.00	-0.00	0.0
A-60		Radiant 8S 32D440_W279A	100 %	155.00	12.00	5.40	0.0	-0.0	0.0	155.00	12.00	-0.00	0.0
A-61		Radiant 8S 32D440_W279A	100 %	165.00	12.00	5.40	0.0	-0.0	0.0	165.00	12.00	-0.00	0.0
A-62		Radiant 8S 32D440_W279A	100 %	175.00	12.00	5.40	0.0	-0.0	0.0	175.00	12.00	-0.00	0.0
A-63		Radiant 8S 32D440_W279A	100 %	185.00	12.00	5.40	0.0	-0.0	0.0	185.00	12.00	-0.00	0.0
A-64		Radiant 8S 32D440_W279A	100 %	195.00	12.00	5.40	0.0	-0.0	0.0	195.00	12.00	-0.00	0.0
A-65		Radiant 8S 32D440_W279A	100 %	205.00	12.00	5.40	0.0	-0.0	0.0	205.00	12.00	-0.00	0.0
A-66		Radiant 8S 32D440_W279A	100 %	215.00	12.00	5.40	0.0	-0.0	0.0	215.00	12.00	-0.00	0.0
A-67		Radiant 8S 32D440_W279A	100 %	225.00	12.00	5.40	0.0	-0.0	0.0	225.00	12.00	-0.00	0.0
A-68		Radiant 8S 32D440_W279A	100 %	235.00	12.00	5.40	0.0	-0.0	0.0	235.00	12.00	-0.00	0.0
A-69		Radiant 8S 32D440_W279A	100 %	245.00	12.00	5.40	0.0	-0.0	0.0	245.00	12.00	-0.00	0.0
A-70		Radiant 8S 32D440_W279A	100 %	255.00	12.00	5.40	0.0	-0.0	0.0	255.00	12.00	-0.00	0.0
A-71		Radiant 8S 32D440_W279A	100 %	265.00	12.00	5.40	0.0	-0.0	0.0	265.00	12.00	-0.00	0.0
A-72		Radiant 8S 32D440_W279A	100 %	275.00	12.00	5.40	0.0	-0.0	0.0	275.00	12.00	-0.00	0.0
A-73		Radiant 8S 32D440_W279A	100 %	285.00	12.00	5.40	0.0	-0.0	0.0	285.00	12.00	-0.00	0.0
A-74		Radiant 8S 32D440_W279A	100 %	295.00	12.00	5.40	0.0	-0.0	0.0	295.00	12.00	-0.00	0.0
A-75		Radiant 8S 32D440_W279A	100 %	305.00	12.00	5.40	0.0	-0.0	0.0	305.00	12.00	-0.00	0.0
A-76		Radiant 8S 32D440_W279A	100 %	315.00	12.00	5.40	0.0	-0.0	0.0	315.00	12.00	-0.00	0.0
A-77		Radiant 8S 32D440_W279A	100 %	325.00	12.00	5.40	0.0	-0.0	0.0	325.00	12.00	-0.00	0.0
A-78		Radiant 8S 32D440_W279A	100 %	335.00	12.00	5.40	0.0	-0.0	0.0	335.00	12.00	-0.00	0.0
A-79		Radiant 8S 32D440_W279A	100 %	345.00	12.00	5.40	0.0	-0.0	0.0	345.00	12.00	-0.00	0.0
A-80		Radiant 8S 32D440_W279A	100 %	355.00	12.00	5.40	0.0	-0.0	0.0	355.00	12.00	-0.00	0.0
A-81		Radiant 8S 32D440_W279A	100 %	365.00	12.00	5.40	0.0	-0.0	0.0	365.00	12.00	-0.00	0.0
A-82		Radiant 8S 32D440_W279A	100 %	375.00	12.00	5.40	0.0	-0.0	0.0	375.00	12.00	-0.00	0.0
A-83		Radiant 8S 32D440_W279A	100 %	385.00	12.00	5.40	0.0	-0.0	0.0	385.00	12.00	-0.00	0.0
A-84		Radiant 8S 32D440_W279A	100 %	395.00	12.00	5.40	0.0	-0.0	0.0	395.00	12.00	-0.00	0.0
A-85		Radiant 8S 32D440_W279A	100 %	405.00	12.00	5.40	0.0	-0.0	0.0	405.00	12.00	-0.00	0.0
A-86		Radiant 8S 32D440_W279A	100 %	415.00	12.00	5.40	0.0	-0.0	0.0	415.00	12.00	-0.00	0.0
A-87		Radiant 8S 32D440_W279A	100 %	425.00	12.00	5.40	0.0	-0.0	0.0	425.00	12.00	-0.00	0.0
A-88		Radiant 8S 32D440_W279A	100 %	435.00	12.00	5.40	0.0	-0.0	0.0	435.00	12.00	-0.00	0.0

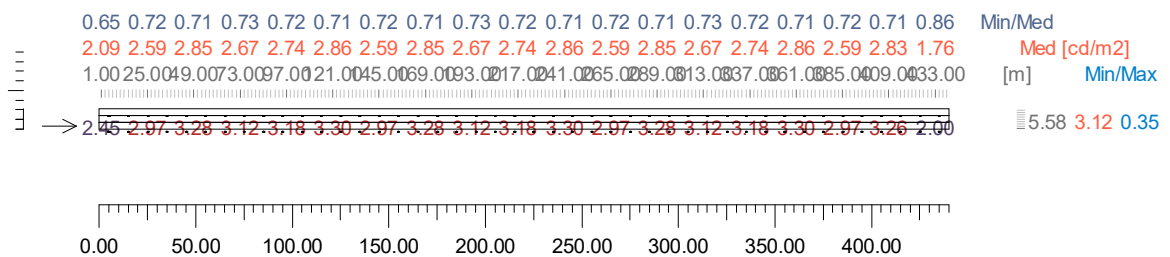
## 4. Tabelle dei Risultati

### 4.1 Valori Luminanza su: 3 - Carreggiata A - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	2.70 cd/m <sup>2</sup>	0.90 cd/m <sup>2</sup>	3.80 cd/m <sup>2</sup>	0.33	0.24	0.71

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

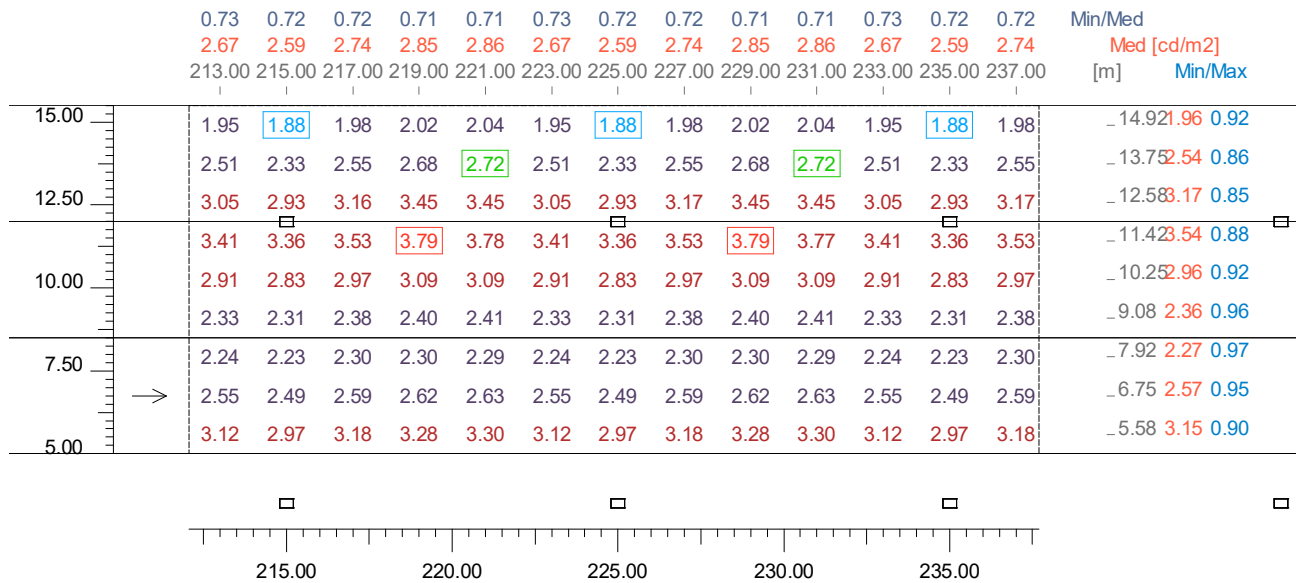


## 4.2 Valori Luminanza su: 3 - Carreggiata A [Lp,c] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	2.72 cd/m2	1.88 cd/m2	3.79 cd/m2	0.69	0.49	0.72

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

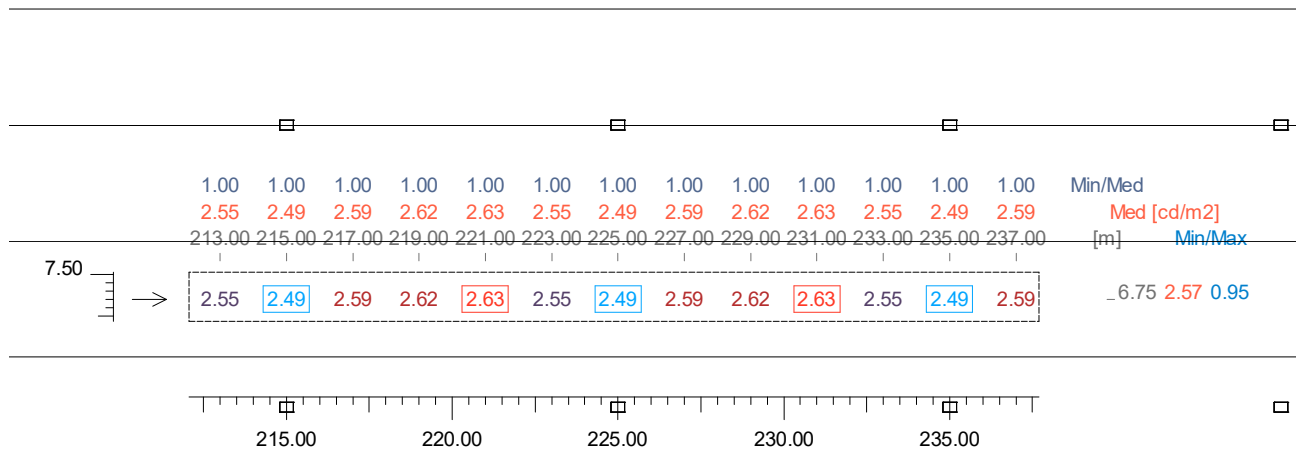


### 4.3 Valori Luminanza su: 3 - Carreggiata A [UI,c1] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	2.57 cd/m2	2.49 cd/m2	2.63 cd/m2	0.97	0.95	0.98

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

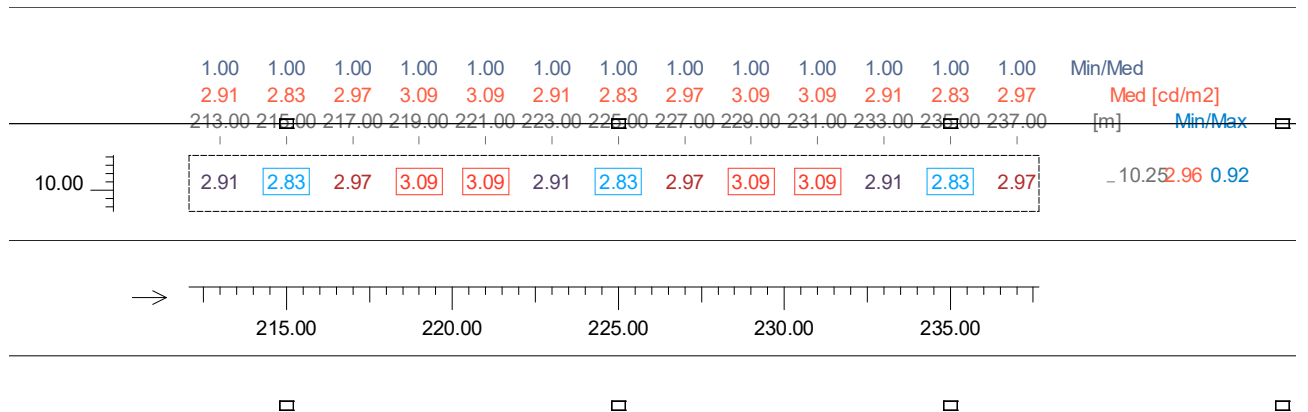


#### 4.4 Valori Luminanza su: 3 - Carreggiata A [UI,c2] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	2.96 cd/m2	2.83 cd/m2	3.09 cd/m2	0.96	0.92	0.96

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)



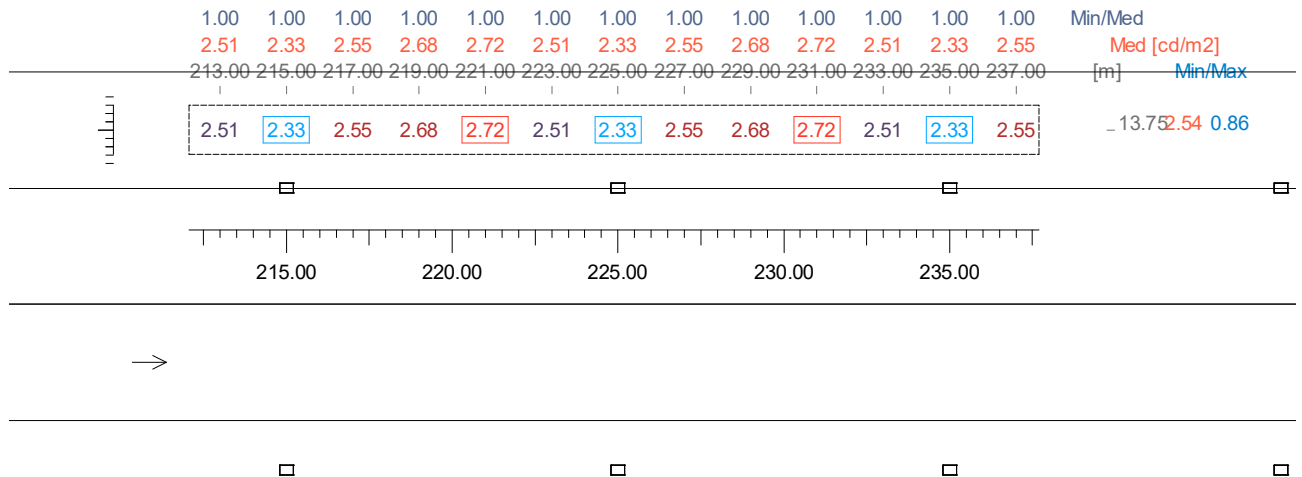


#### 4.5 Valori Luminanza su: 3 - Carreggiata A [UI,c3] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	2.54 cd/m <sup>2</sup>	2.33 cd/m <sup>2</sup>	2.72 cd/m <sup>2</sup>	0.92	0.86	0.93

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

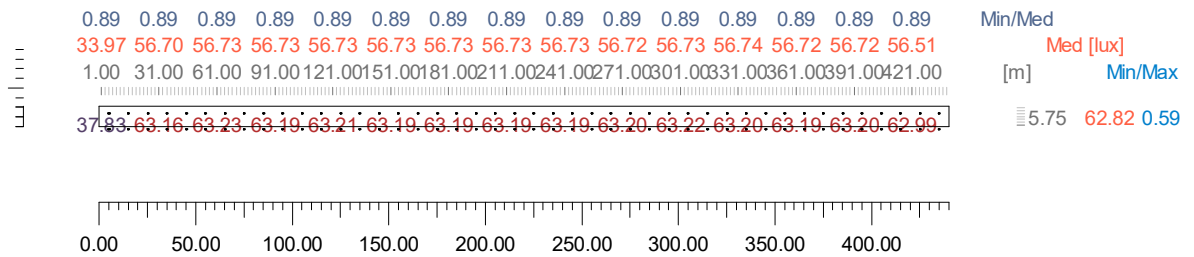


#### 4.6 Valori Illuminamento Orizzontale su: 3 - Carreggiata A

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	56.25 lx	30.07 lx	64.48 lx	0.53	0.47	0.87

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

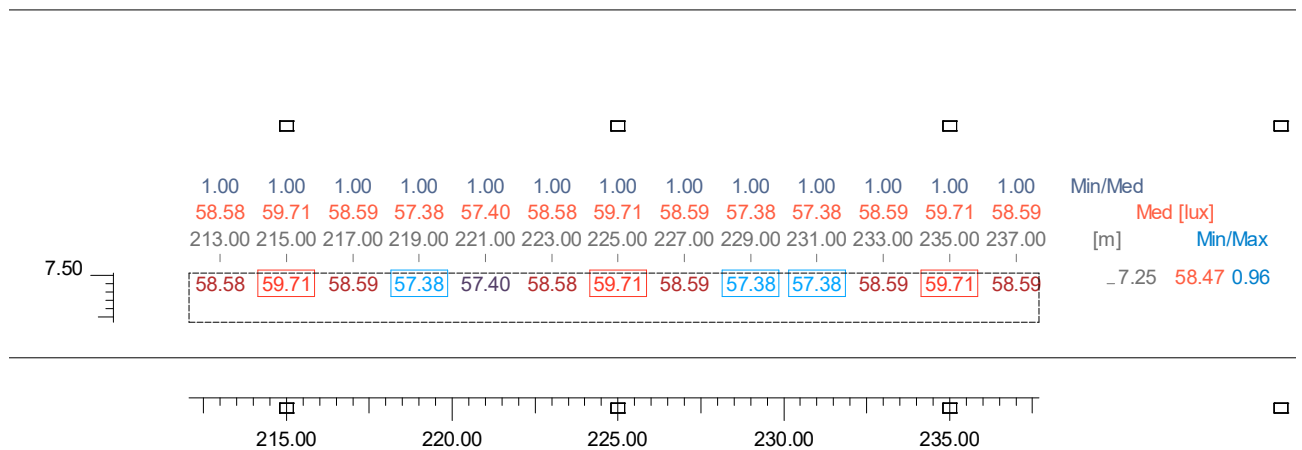


#### 4.7 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [UI,c1]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	58.47 lx	57.38 lx	59.71 lx	0.98	0.96	0.98

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

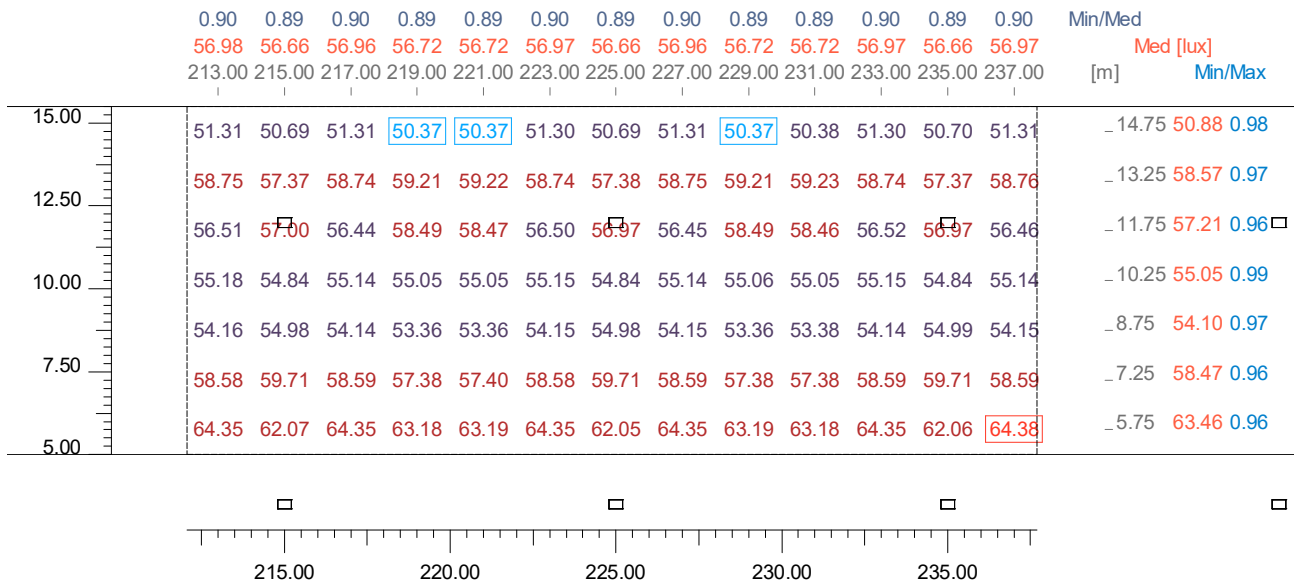


#### 4.8 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	56.82 lx	50.37 lx	64.38 lx	0.89	0.78	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

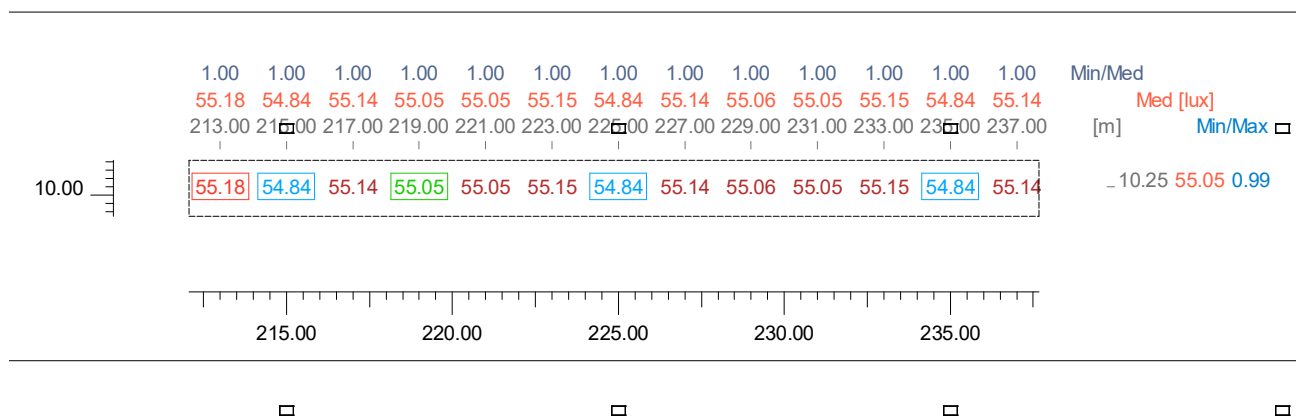


#### 4.9 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [UI,c2]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	55.05 lx	54.84 lx	55.18 lx	1.00	0.99	1.00

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

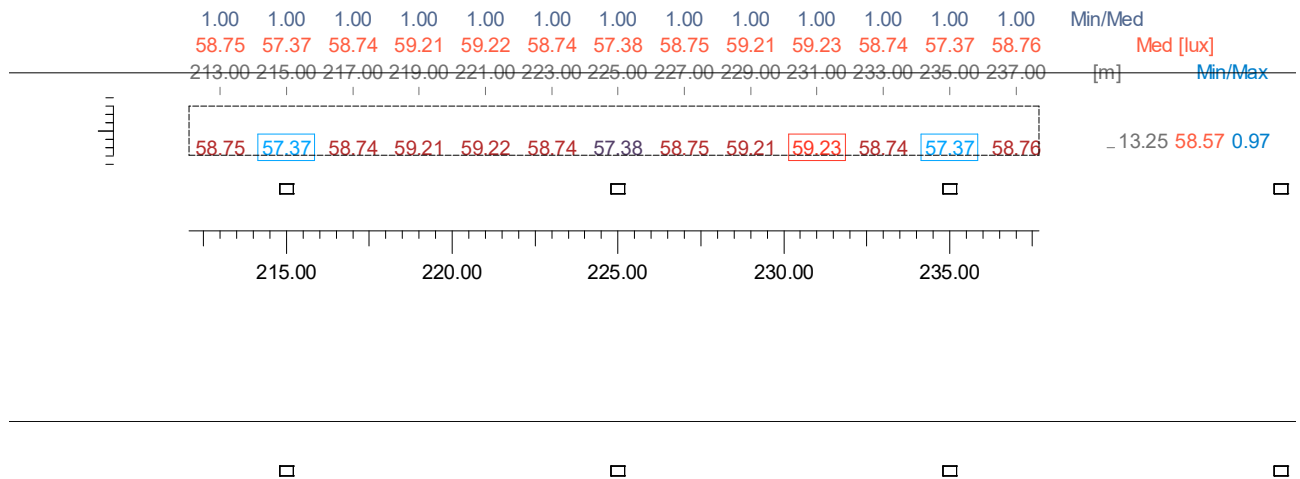


#### 4.10 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [UI,c3]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	58.57 lx	57.37 lx	59.23 lx	0.98	0.97	0.99

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

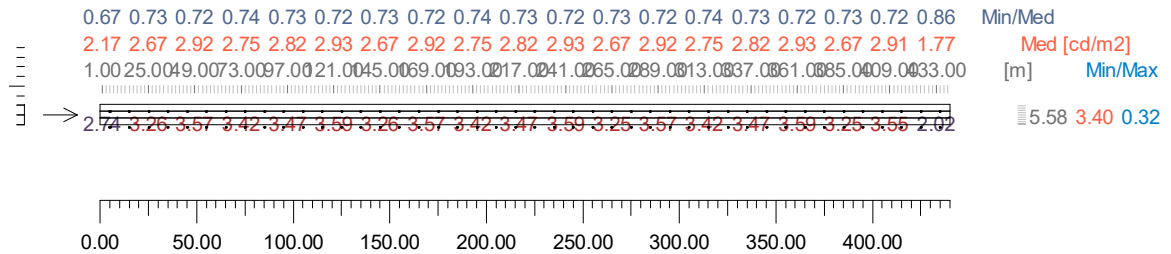


#### 4.11 Valori Luminanza su: 3 - Carreggiata A - Oss. 2 [x=-86.00 y=10.25] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	2.77 cd/m2	0.90 cd/m2	3.78 cd/m2	0.32	0.24	0.73

Osservatore  
Tipo Calcolo

[x=-86.00 y=10.25 z=1.50] m => [x=4.00 y=10.25 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

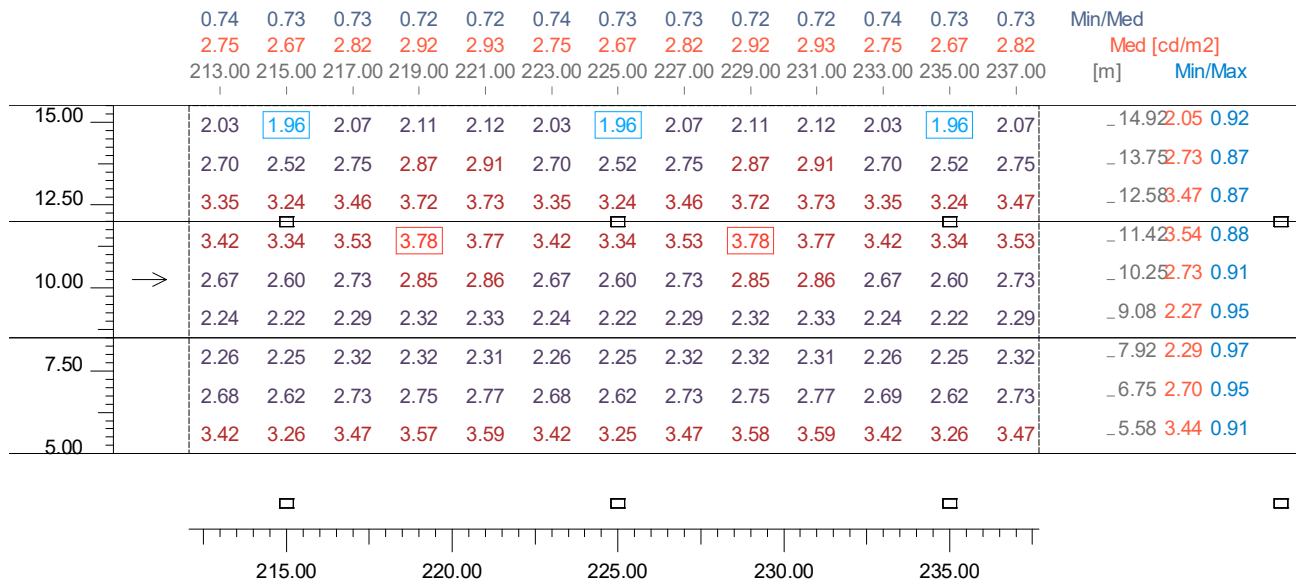


#### 4.12 Valori Luminanza su: 3 - Carreggiata A [Lp,c] - Oss. 2 [x=-86.00 y=10.25] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	2.80 cd/m <sup>2</sup>	1.96 cd/m <sup>2</sup>	3.78 cd/m <sup>2</sup>	0.70	0.52	0.74

Osservatore  
Tipo Calcolo

[x=-86.00 y=10.25 z=1.50] m => [x=4.00 y=10.25 z=0.00] m  
Dir.+Indir. (Accuratezza:2)



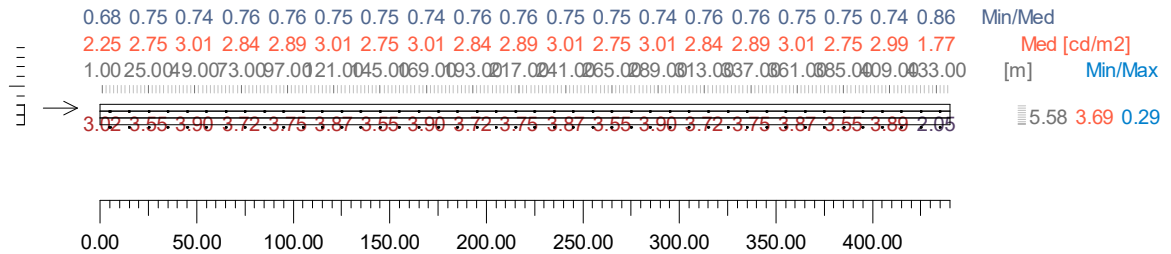


### 4.13 Valori Luminanza su: 3 - Carreggiata A - Oss. 3 [x=-86.00 y=13.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	2.85 cd/m <sup>2</sup>	0.89 cd/m <sup>2</sup>	4.01 cd/m <sup>2</sup>	0.31	0.22	0.71

Osservatore  
Tipo Calcolo

[x=-86.00 y=13.75 z=1.50] m => [x=4.00 y=13.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

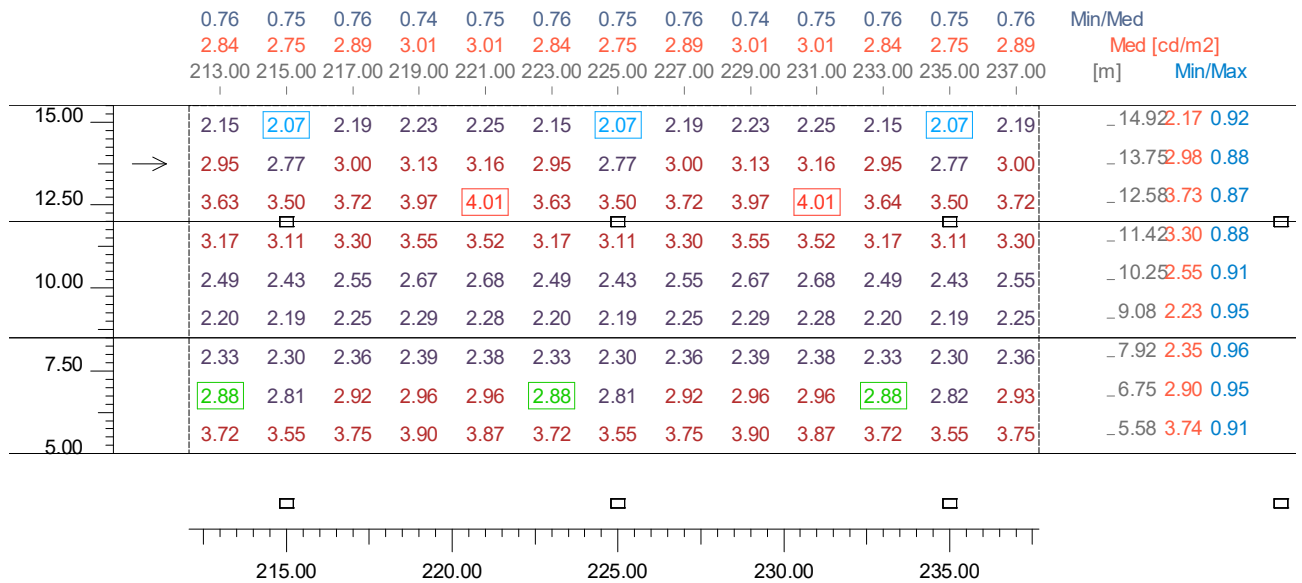


#### 4.14 Valori Luminanza su: 3 - Carreggiata A [Lp,c] - Oss. 3 [x=-86.00 y=13.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	2.88 cd/m2	2.07 cd/m2	4.01 cd/m2	0.72	0.52	0.72

Osservatore  
Tipo Calcolo

[x=-86.00 y=13.75 z=1.50] m => [x=4.00 y=13.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

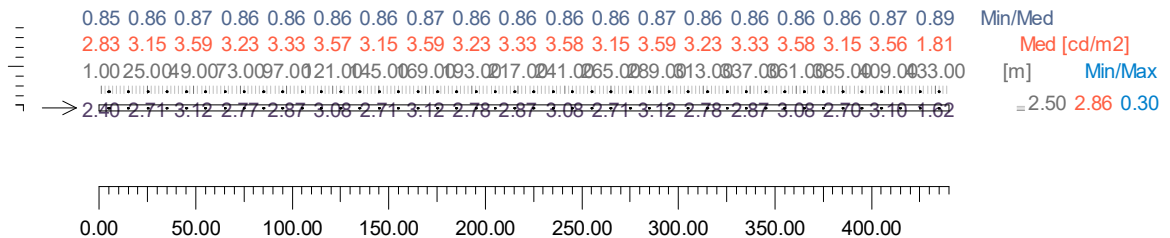


#### 4.15 Valori Luminanza su: 2-1 (Carreggiata - Corsia d'Emergenza) - Oss. 1 [x=-86.00 y=3.50] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	3.31 cd/m2	0.93 cd/m2	3.90 cd/m2	0.28	0.24	0.85

Osservatore  
Tipo Calcolo

[x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

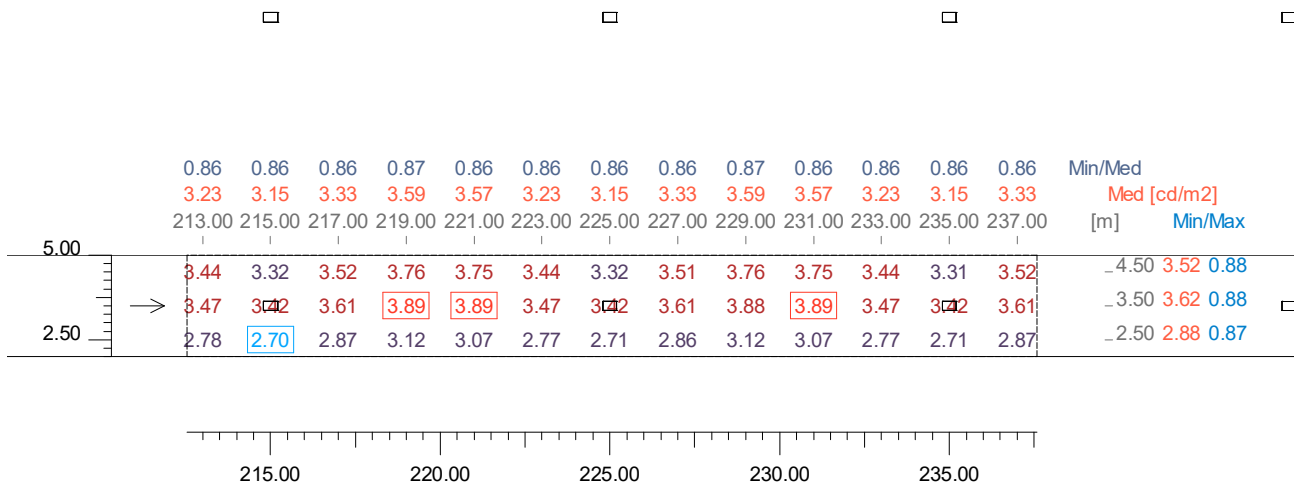


#### 4.16 Valori Luminanza su: 2-1 (Carreggiata - Corsia d'Emergenza) [Lp,c,EM] - Oss. 1 [x=-86.00 y=3.50] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	3.34 cd/m <sup>2</sup>	2.70 cd/m <sup>2</sup>	3.89 cd/m <sup>2</sup>	0.81	0.69	0.86

Osservatore  
Tipo Calcolo

[x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

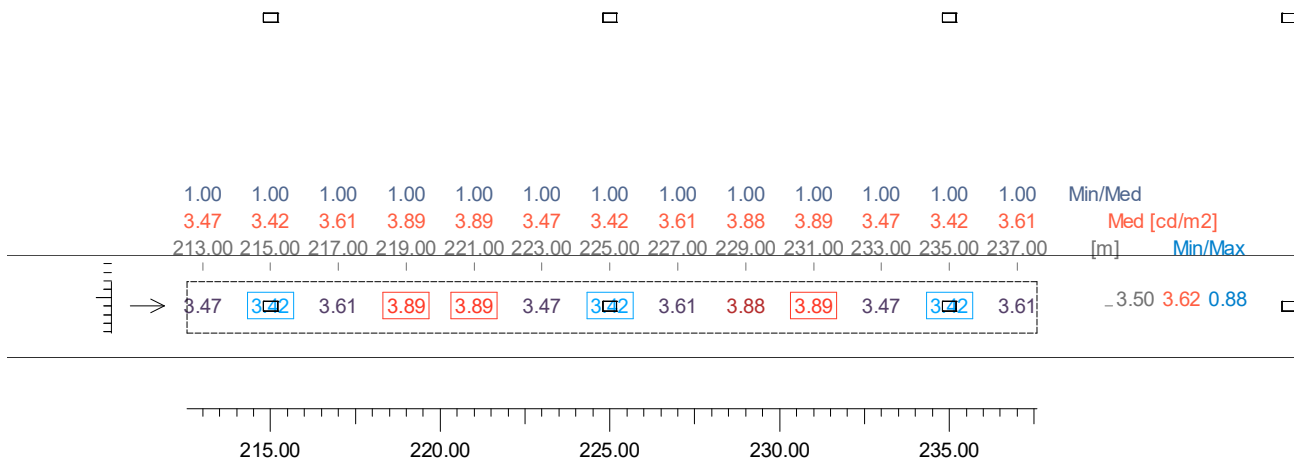


**4.17 Valori Luminanza su: 2-1 (Carreggiata - Corsia d'Emergenza) [UI,c,EM] - Oss. 1 [x=-86.00 y=3.50] m**

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	3.62 cd/m2	3.42 cd/m2	3.89 cd/m2	0.95	0.88	0.93

Osservatore  
Tipo Calcolo

[x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

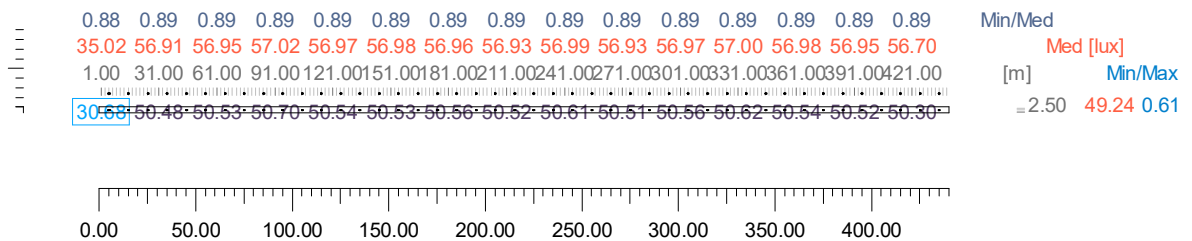


#### 4.18 Valori Illuminamento Orizzontale su: 2-1 (Carreggiata - Corsia d'Emergenza)

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	55.54 lx	30.68 lx	63.05 lx	0.55	0.49	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

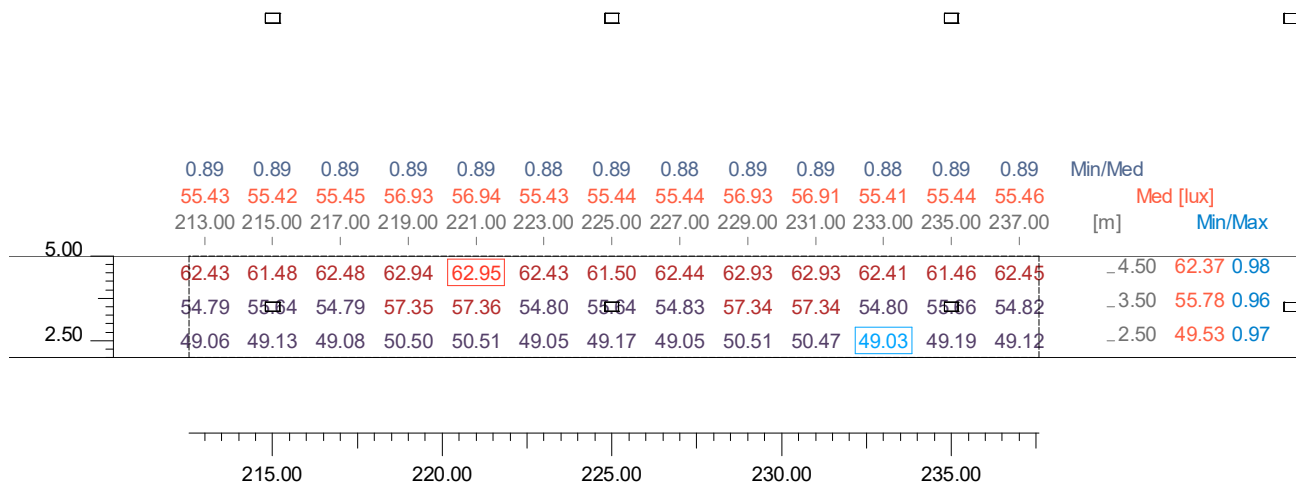


#### 4.19 Valori Illuminamento Orizzontale su: 2-1 (Carreggiata - Corsia d'Emergenza) [Lp,c,EM]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	55.89 lx	49.03 lx	62.95 lx	0.88	0.78	0.89

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

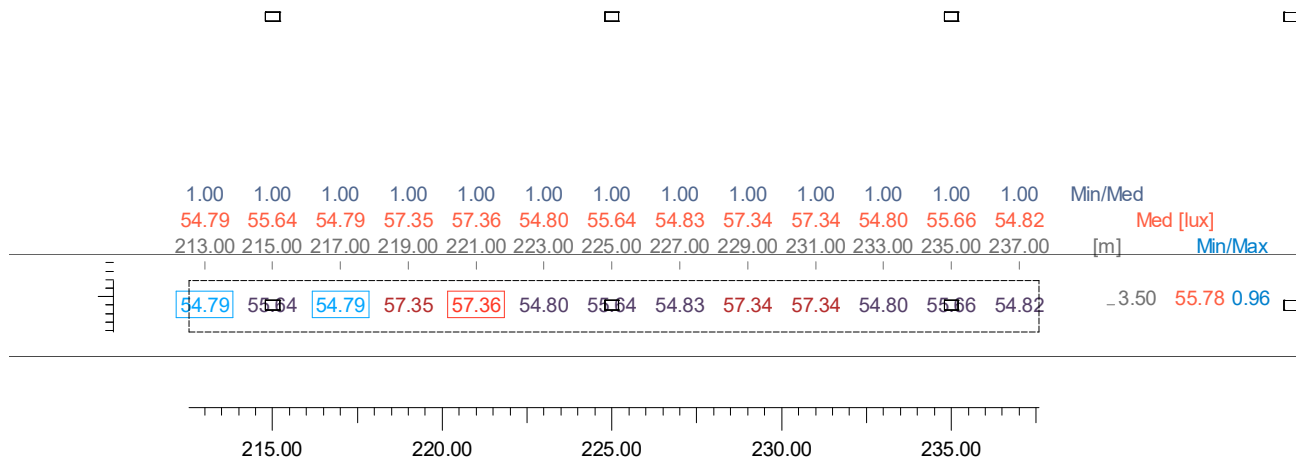


#### 4.20 Valori Illuminamento Orizzontale su: 2-1 (Carreggiata - Corsia d'Emergenza) [U,c,EM]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	55.78 lx	54.79 lx	57.36 lx	0.98	0.96	0.97

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



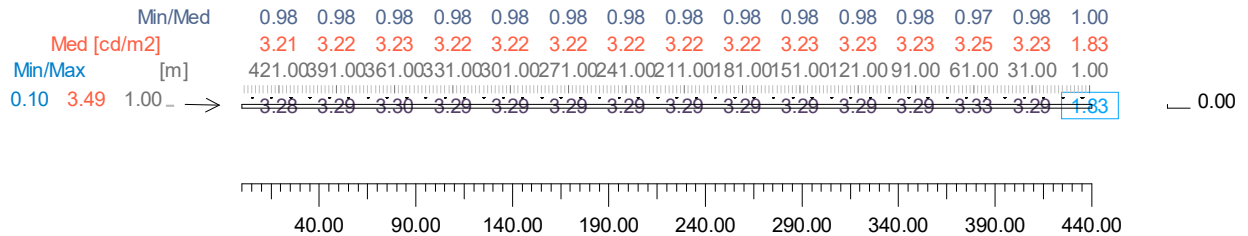


#### 4.21 Valori Luminanza su: Parete Virtuale Destra - Oss. 1 (Lambert) [x=-86.00 y=3.50] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	3.46 cd/m2	1.83 cd/m2	18.01 cd/m2	0.53	0.10	0.19

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

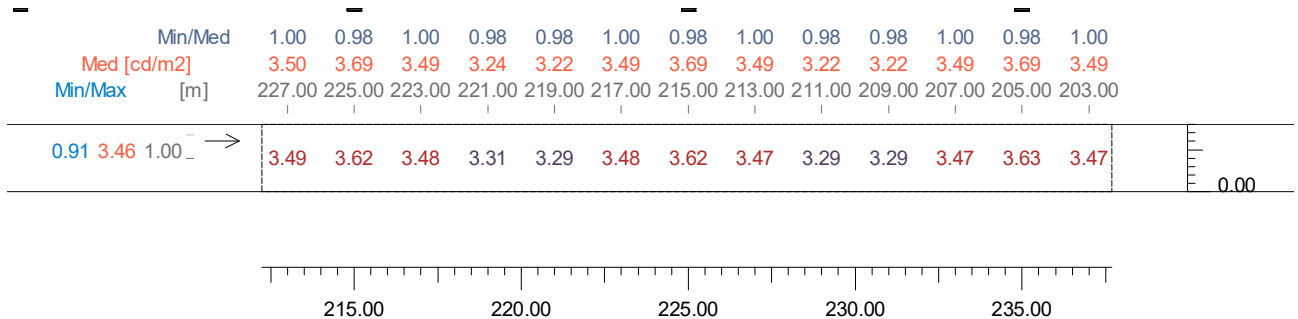


#### 4.22 Valori Luminanza su: Parete Virtuale Destra [Lp,pd] - Oss. 1 (Lambert) [x=-86.00 y=3.50] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	3.46 cd/m <sup>2</sup>	3.16 cd/m <sup>2</sup>	3.76 cd/m <sup>2</sup>	0.91	0.84	0.92

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

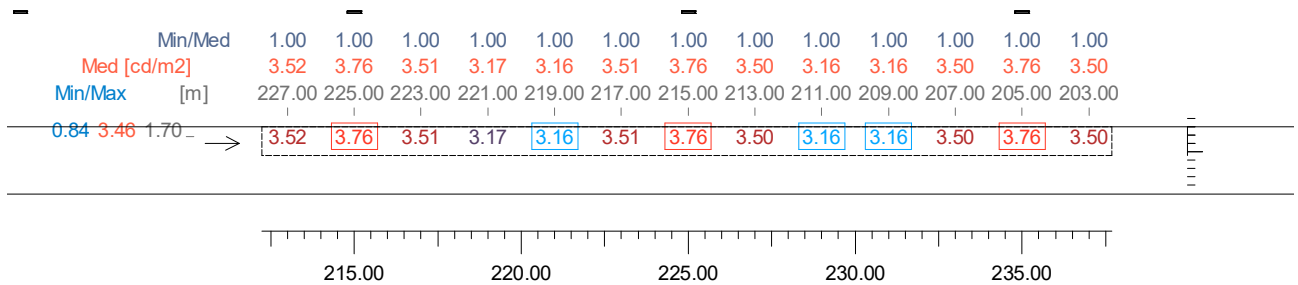


#### 4.23 Valori Luminanza su: Parete Virtuale Destra [UI,pd] - Oss. 1 (Lambert) [x=-86.00 y=3.50] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	3.46 cd/m2	3.16 cd/m2	3.76 cd/m2	0.91	0.84	0.92

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

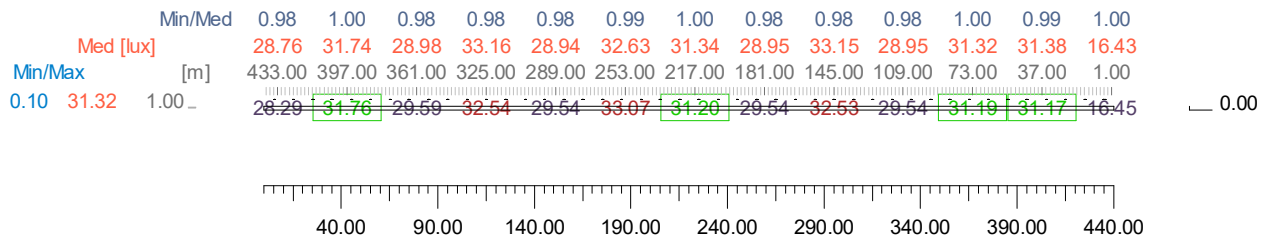


#### 4.24 Valori Illuminamento Orizzontale su: Parete Virtuale Destra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	31.06 lx	16.41 lx	161.64 lx	0.53	0.10	0.19

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

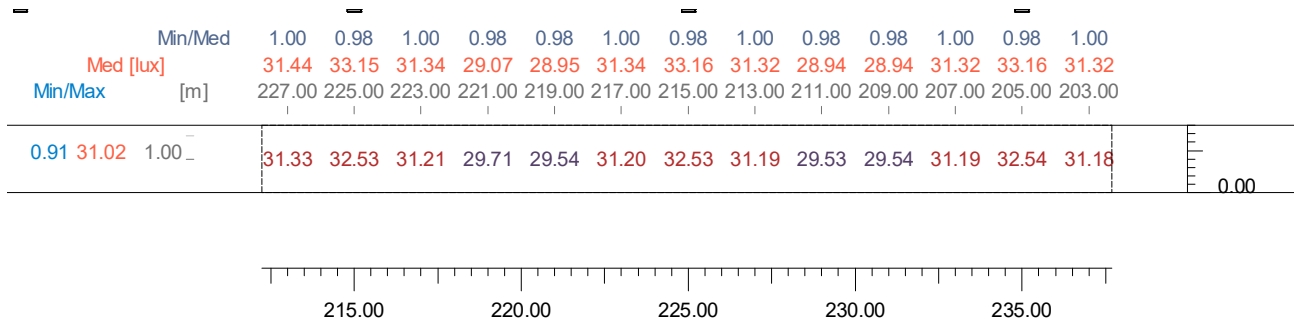


#### 4.25 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	31.03 lx	28.35 lx	33.78 lx	0.91	0.84	0.92

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

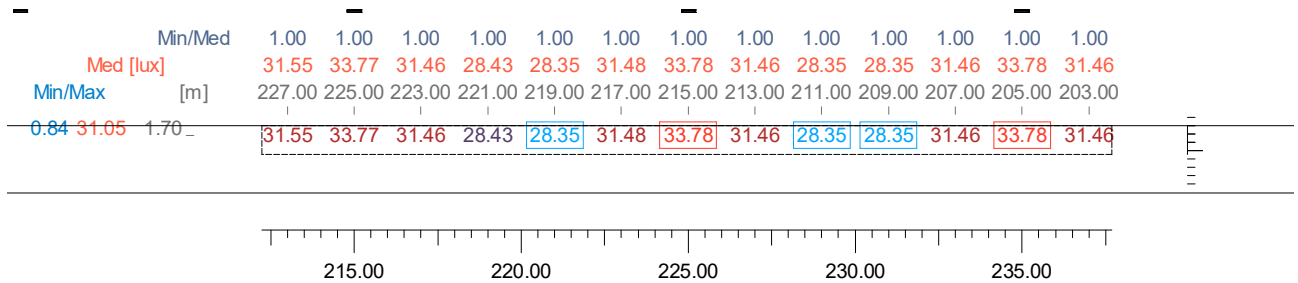


#### 4.26 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [UI,pd]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	31.05 lx	28.35 lx	33.78 lx	0.91	0.84	0.92

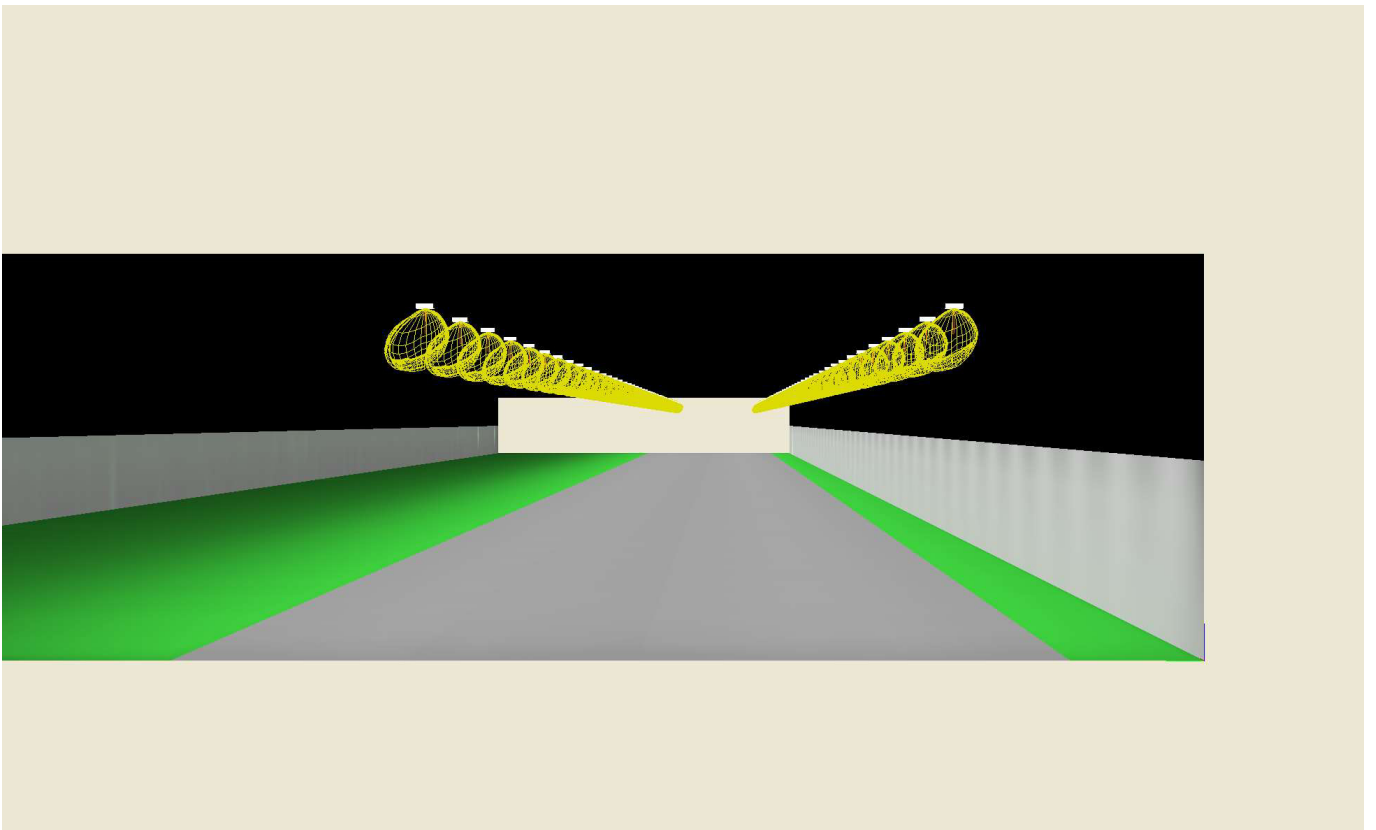
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

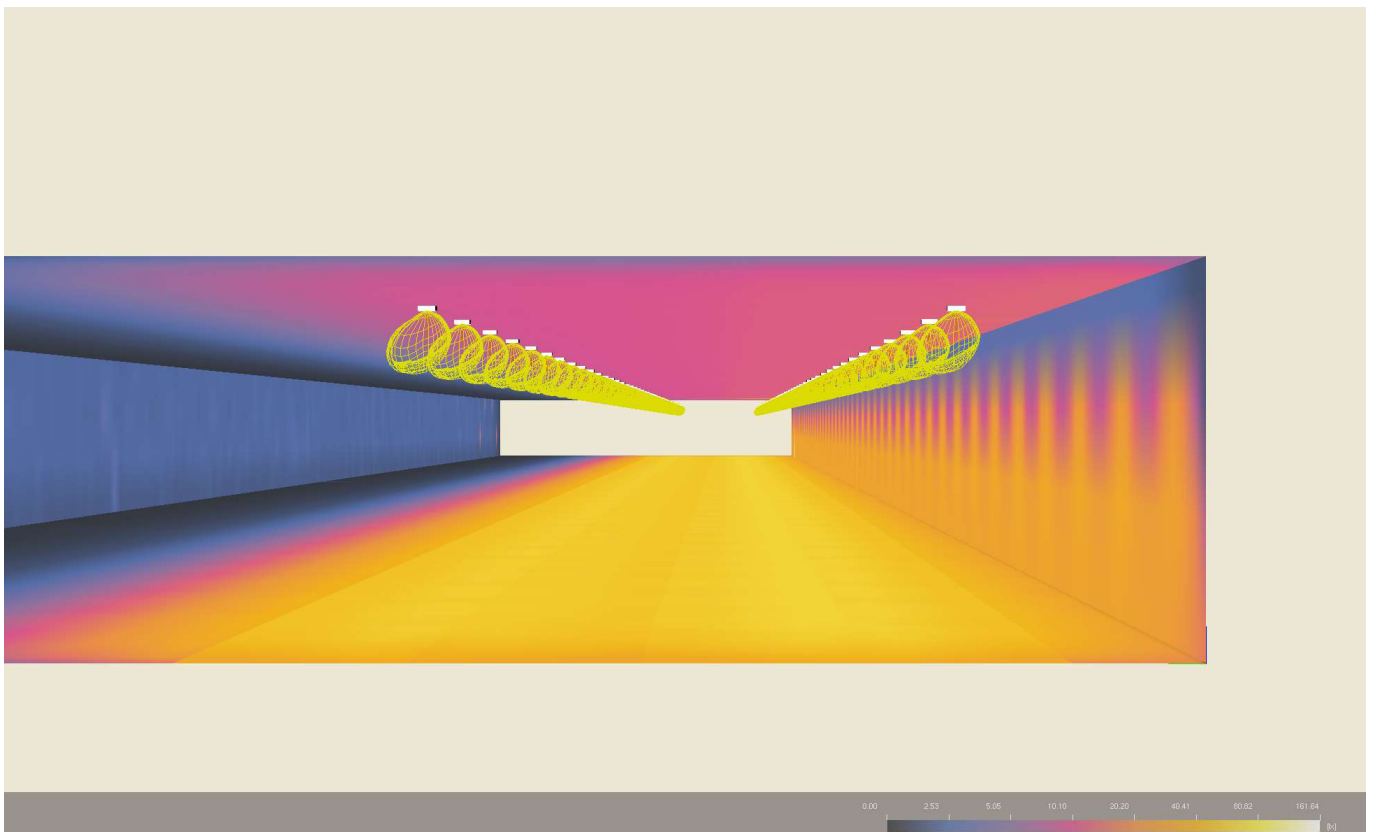


## 5. Immagini

### 5.1 Immagini



## 5.2 Immagini





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### 5 Immagini

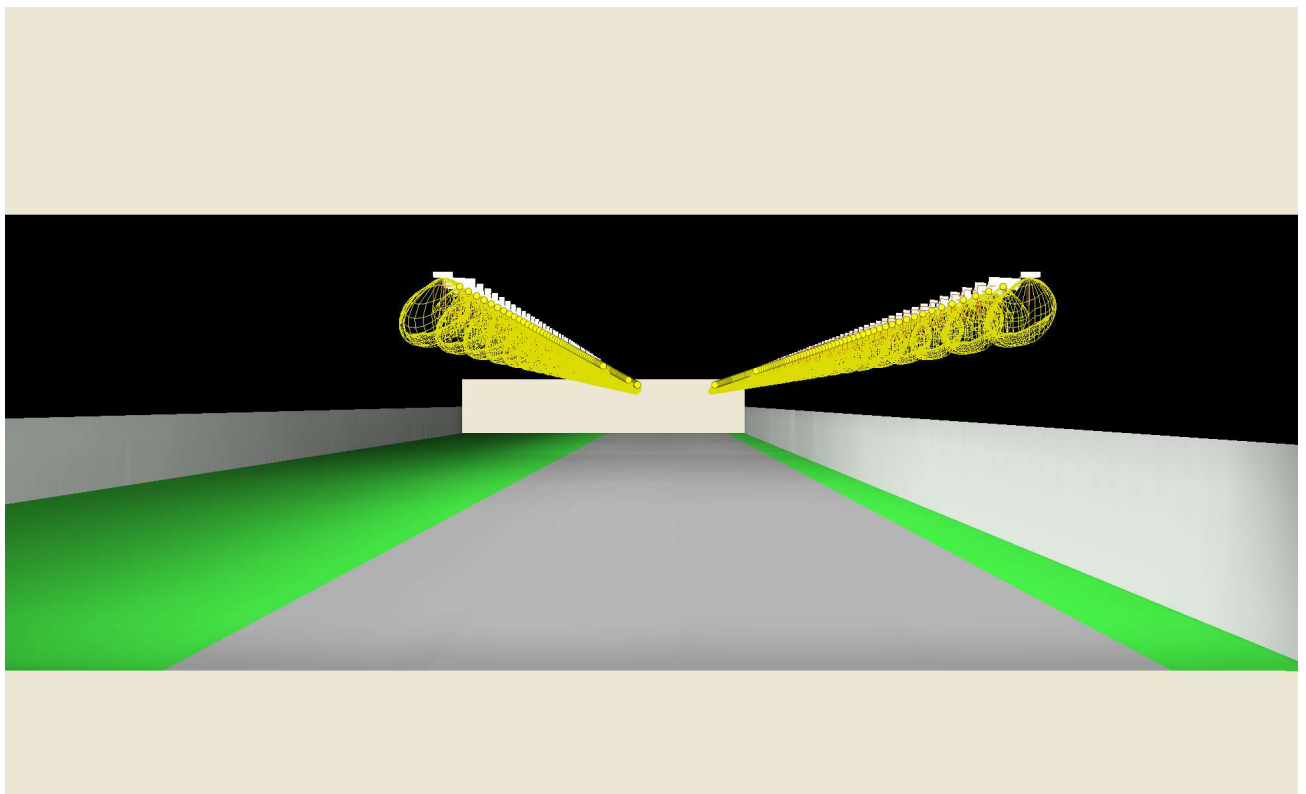
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## Galleria Croce del Biacco

Note Installazione: Rinforzo  
Cliente: Autostrade per l'Italia  
Codice Progetto: DL21P187  
Data: 24/05/2021

### Note

UNI 11095-2021  
Manto stradale C2 - Q0: 0,0560  
Riflessione pareti 40%  
H. galleria 6.1m  
Fattore di manutenzione 80%  
H. corpi illuminanti 5.4m  
Le = 100 cd/mq  
Li = 2.25 cd/mq



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

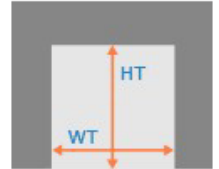
Avvertenze:

# 1. Dati Riepilogativi Progetto e Risultati

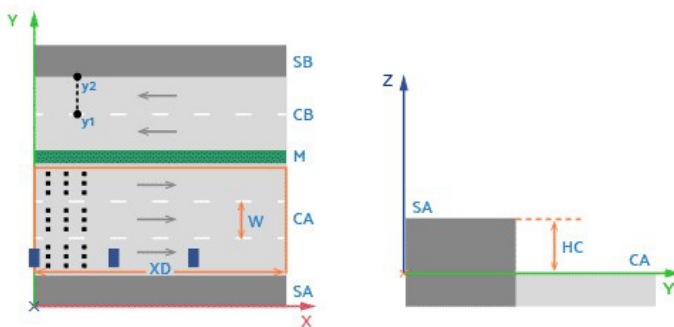
## 1.1 Informazioni Area

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

Fornice	Cubo (A)
Larghezza (WT)	31.90 m
Altezza (HT)	6.10 m
Alt.Parete Attiva	3.00 m
Col.Parete Attiva	(255,255,255) 35%
Colore Soffitto	(0,0,0) 0%

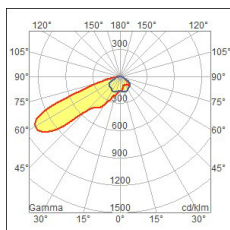


Zona	Tipo Zona	Corsia	Senso di Marcia	Larghezza [m] (W)	y1 [m]	y2 [m]	Pt.Calc.Y (E)	Pt.Calc.Y (L)	Alt. Zona [m] (HC)	Tabella R	Coeff.Rifl. Fattore q0
1. Generica	Secondaria	Striscia di margine	--->	2.00	0.00	2.00	3	3	0.00		0.7600
2. Carreggiata	Carrabile	Corsia d'Emergenza	--->	3.00	2.00	5.00	3	3	0.00	C2	0.0560
3. Carreggiata A Carrabile				10.50	5.00	15.50	7		0.00	C2	0.0560
		3.1 Corsia 1	--->	3.50	5.00	8.50		3			
		3.2 Corsia 2	--->	3.50	8.50	12.00		3			
		3.3 Corsia 3	--->	3.50	12.00	15.50		3			
4. Generica	Secondaria	Striscia di margine	--->	16.40	15.50	31.90	11	3	0.00		0.3000

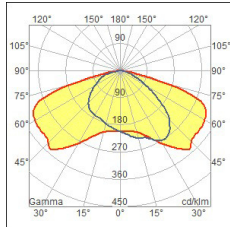


## 1.2 Informazioni Apparecchi/Rilievi

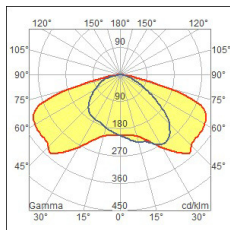
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
A	Detas SpA Radiant 8XL_96D650_W218A (Radiant 8XL_96D650_W218A)	Radiant 8XL_96D650_W218A (Radiant 8XL_96D650_W218A)	25700.00	0.80	100 %	255,255,255	28	Sorg-A	1



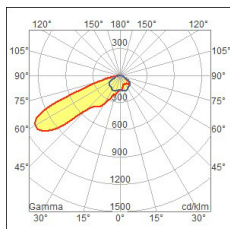
Rif.	Produttore Nome Apparecchio (Nome Rilievo)	Codice Apparecchio (Codice Rilievo)	Flusso [lm]	Coeff. Mant.	Dimmer	Colore RGB	Apparecchi n.	Rif.Sorg.	Sorgenti n.
B	Detas SpA Radiant 8L_48D700_W279A (Radiant 8L_48D700_W279A)	Radiant 8L_48D700_W279A (Radiant 8L_48D700_W279A)	15320.00	0.80	100 %	255,255,255	20	Sorg-B	1



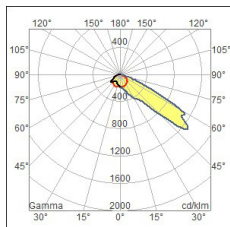
C	Detas SpA Radiant 8S 32D530_W279A (Radiant 8S 32D530_W279A)	Radiant 8S 32D530_W279A (Radiant 8S 32D530_W279A)	7822.00	0.80	100 %	255,255,255	28	Sorg-C	1
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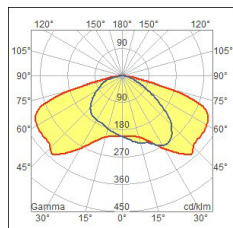
D	Detas SpA Radiant 8L_48D700_W218A (Radiant 8L_48D700_W218A)	Radiant 8L_48D700_W218A (Radiant 8L_48D700_W218A)	14286.00	0.80	100 %	255,255,255	18	Sorg-D	1
---	---	--	----------	------	-------	-------------	----	--------	---



E	Detas SpA Radiant 8XXL_128D900_W218A (Radiant 8XXL_128D900_W218A)	Radiant 8XXL_128D900_W218A (Radiant 8XXL_128D900_W218A)	46718.00	0.80	100 %	255,255,255	80	Sorg-E	1
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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 32D440_W279A (Radiant 8S 32D440_W279A)	Radiant 8S 32D440_W279A (Radiant 8S 32D440_W279A)	6604.00	0.80	100 %	255,255,255	88	Sorg-F	1

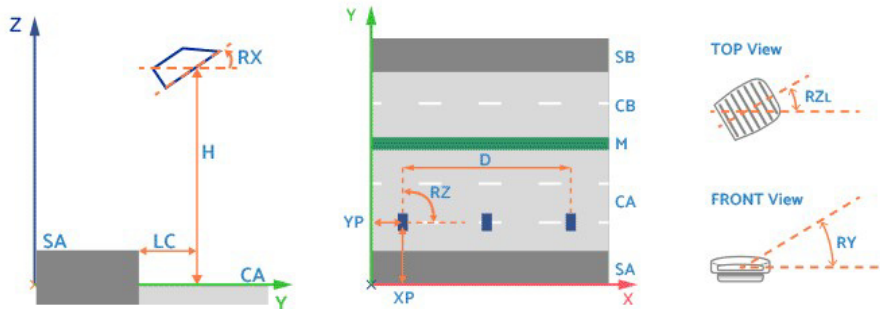


### 1.3 Informazioni Sorgenti

Rif.Sorg.	Produttore	Nome	Codice	Potenza [W]	Corrente [A]	Flusso [lm]	Colore [K]	n.
Sorg-A		96D650 195W	96D650 195W	195.00	0.0000	25700	6000	28
Sorg-B		48D700 106W	48D700 106W	106.00	0.0000	15320	6000	20
Sorg-C		32D530 52W	32D530 52W	52.00	0.0000	7822	6000	28
Sorg-D		48D700 106W	48D700 106W	106.00	0.0000	14286	6000	18
Sorg-E		128D900 370W	128D900 370W	370.00	0.0000	46718	6000	80
Sorg-F		32D440 43W	32D440 43W	43.00	0.0000	6604	6000	88

### 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	F		5.00	3.50	5.40	44	10.00	0.00	430.00	0	0	0
Fila B	F		5.00	12.00	5.40	44	10.00	0.00	430.00	0	0	0
Row	E	Layer 0	10.00	3.50	5.40	26	3.10	0.00	77.50	9	90	-3
Row	E	Layer 0	10.00	12.00	5.40	26	3.10	0.00	77.50	9	90	-3
Row	E	Layer 0	90.60	3.50	5.40	14	3.10	3.50	49.95	9	90	-3
Row	E	Layer 0	90.60	12.00	5.40	14	3.10	3.50	49.95	9	90	-3
Row	A	Layer 0	144.50	3.50	5.40	7	3.10	5.00	21.09	3	0	9
Row	A	Layer 0	144.50	12.00	5.40	7	3.10	5.00	21.09	3	0	9
Row	A	Layer 0	169.30	3.50	5.40	7	4.35	9.00	32.73	3	0	9
Row	A	Layer 0	169.30	12.00	5.40	7	4.35	9.00	32.73	3	0	9
Row	D	Layer 0	206.00	3.50	5.40	9	4.50	6.00	44.54	3	0	9
Row	D	Layer 0	206.00	12.00	5.40	9	4.50	6.00	44.54	3	0	9
Row	B	Layer 0	248.00	3.50	5.40	10	6.00	5.00	66.16	0	0	0
Row	B	Layer 0	248.00	12.00	5.40	10	6.00	5.00	66.16	0	0	0
Row	C	Layer 0	320.00	3.50	5.40	14	6.00	5.00	106.28	0	0	0
Row	C	Layer 0	320.00	12.00	5.40	14	6.00	5.00	106.28	0	0	0



## 1.5 Risultati dei Calcoli e Parametri di Uniformità

### Riepilogo Risultati dei Calcoli

EN 13201:2015

2 - Carreggiata	Risultati	$L_{AV} = 58.73 \text{ cd/m}^2$	$U_o(L) = 0.02$	$U_L = 0.01$	$f_{TI} = 16 \%$
	Oss. 1) [x=-86.00 y=3.50] m Oss.Ti [x=190.28 y=3.50] m Lv = 26.01	$L_{AV} = 58.73 \text{ cd/m}^2 *$	$U_o(L) = 0.02 *$	$U_L = 0.01 *$	$f_{TI} = 15.89 \%$
3 - Carreggiata A	Risultati	$L_{AV} = 40.54 \text{ cd/m}^2$	$U_o(L) = 0.03$	$U_L = 0.01$	$f_{TI} = 18 \%$
	Oss. 1) [x=-86.00 y=6.75] m Oss. 2) [x=-86.00 y=10.25] m Oss. 3) [x=-86.00 y=13.75] m Oss.Ti 1) [x=-5.73 y=6.75] m Oss.Ti 2) [x=178.28 y=10.25] m Oss.Ti 3) [x=178.28 y=13.75] m Lv = 22.86	$L_{AV} = 40.54 \text{ cd/m}^2 *$ $L_{AV} = 42.40 \text{ cd/m}^2$ $L_{AV} = 44.19 \text{ cd/m}^2$	$U_o(L) = 0.03$ $U_o(L) = 0.03$ $U_o(L) = 0.03 *$	$U_L = 0.02$ $U_L = 0.01 *$ $U_L = 0.01$	$f_{TI} = 16.23 \%$ $f_{TI} = 18.47 \%$ $f_{TI} = 16.99 \%$

### Riepilogo Uniformità di Lun

Sezione Ingresso	[10.00..81.50] m	(Luminanza Costante)
Parete Destra	$L_{AV}\%(pd/c,o1) = 61.2 \%$	$L_{AV,pd}=92.65 \text{ cd/m}^2$
Parete Sinistra	$L_{AV}\%(ps/c,o1) = 5.5 \%$	$L_{AV,ps}=8.31 \text{ cd/m}^2$
2 - Carreggiata	--->	$L_{AV,c,o1}=151.30 \text{ cd/m}^2$
3 - Carreggiata A	--->	$L_{AV,c,o1}=102.24 \text{ cd/m}^2$
--->	Oss. 1) [x=-86.00 y=6.75] m	$L_{AV,c,o1}=102.24 \text{ cd/m}^2 *$
--->	Oss. 2) [x=-86.00 y=10.25] m	$L_{AV,c,o2}=106.99 \text{ cd/m}^2$
--->	Oss. 3) [x=-86.00 y=13.75] m	$L_{AV,c,o3}=111.56 \text{ cd/m}^2$
Sezione Ingresso	[10.00..81.50] m	(Luminanza Variabile)
Parete Destra	$L_{AVt}\%(pd/c,o1) = 56.8 \%$ (x=11.00)	$L_{AVt,pd}=82.98 \text{ cd/m}^2$ (x=11.00)
Parete Sinistra	$L_{AVt}\%(ps/c,o1) = 4.6 \%$ (x=11.00)	$L_{AVt,ps}=6.70 \text{ cd/m}^2$ (x=11.00)
2 - Carreggiata	--->	$L_{AVt,c,o1}=146.12 \text{ cd/m}^2$ (x=11.00)
3 - Carreggiata A	--->	$L_{AVt,c,o1}=96.80 \text{ cd/m}^2$ (x=11.00)
--->	Oss. 1) [x=-86.00 y=6.75] m	$L_{AVt,c,o1}=96.80 \text{ cd/m}^2$ (x=11.00)
--->	Oss. 2) [x=-86.00 y=10.25] m	$L_{AVt,c,o2}=101.66 \text{ cd/m}^2$ (x=11.00)
--->	Oss. 3) [x=-86.00 y=13.75] m	$L_{AVt,c,o3}=106.26 \text{ cd/m}^2$ (x=11.00)
Sezione Ingresso	[81.50..163.00] m	(Luminanza Variabile)
Parete Destra	$L_{AVt}\%(pd/c,o1) = 55.2 \%$ (x=111.00)	$L_{AVt,pd}=42.53 \text{ cd/m}^2$ (x=111.00)
Parete Sinistra	$L_{AVt}\%(ps/c,o1) = 5.1 \%$ (x=111.00)	$L_{AVt,ps}=3.71 \text{ cd/m}^2$ (x=111.00)
2 - Carreggiata	--->	$L_{AVt,c,o1}=61.07 \text{ cd/m}^2$ (x=111.00)
3 - Carreggiata A	--->	$L_{AVt,c,o1}=42.52 \text{ cd/m}^2$ (x=111.00)
--->	Oss. 1) [x=-86.00 y=6.75] m	$L_{AVt,c,o1}=42.52 \text{ cd/m}^2$ (x=111.00)

---> Oss. 2) [x=-86.00 y=10.25] m LAvt,c,o2=44.69 cd/m<sup>2</sup> (x=16.0 Uot,c,o2=0.54 (x=129.0 Uo3=0.94 (y=13.7.  
---> Oss. 3) [x=-86.00 y=13.75] m LAvt,c,o3=46.82 cd/m<sup>2</sup> (x=16.0 Uot,c,o3=0.58 (x=129.0

Sezione Transizione [163.00..440.00] m (Luminanza Variabile)

Parete Destra LAvt%(pd/c,o1) = 62.5 % (x=1 LAvt,pd=2.08 cd/m<sup>2</sup> (x=439.0 Uot,pd=0.97 (x=245.00  
Parete Sinistra LAvt%(ps/c,o1) = 5.5 % (x=22 LAvt,ps=0.16 cd/m<sup>2</sup> (x=439.0 Uot,ps=0.79 (x=279.00  
2 - Carreggiata ---> LAvt,c,o1=1.29 cd/m<sup>2</sup> (x=439. Uot,c,o1=0.85 (x=263.0  
3 - Carreggiata A ---> LAvt,c,o3=1.32 cd/m<sup>2</sup> (x=439. Uot,c,o1=0.52 (x=189.0  
---> Oss. 1) [x=-86.00 y=6.75] m LAvt,c,o1=1.32 cd/m<sup>2</sup> (x=439. Uot,c,o1=0.52 (x=189.0  
---> Oss. 2) [x=-86.00 y=10.25] m LAvt,c,o2=1.32 cd/m<sup>2</sup> (x=439. Uot,c,o2=0.55 (x=191.0  
---> Oss. 3) [x=-86.00 y=13.75] m LAvt,c,o3=1.32 cd/m<sup>2</sup> (x=439. Uot,c,o3=0.59 (x=185.0

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

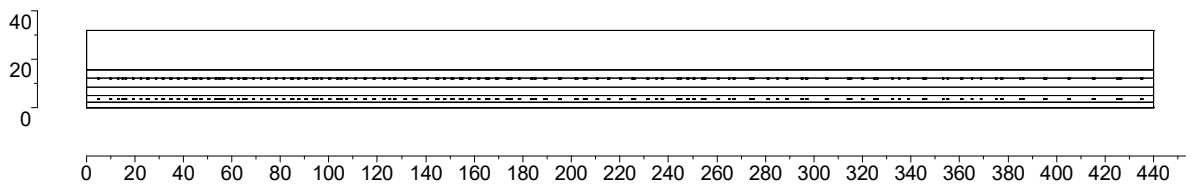
### Inquinamento Luminoso

Rapporto Medio - Rn -

0.06 %

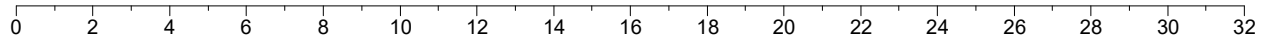
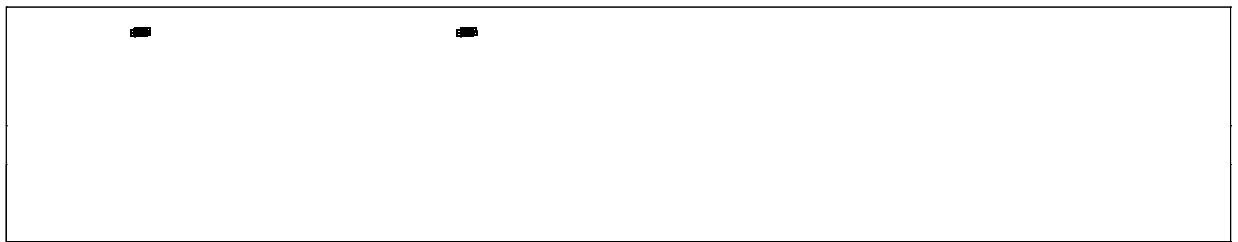
## 2. Viste Ambiente

### 2.1 Vista 2D in Pianta

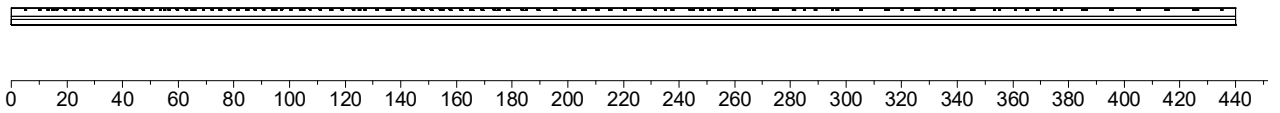




## 2.2 Vista Laterale

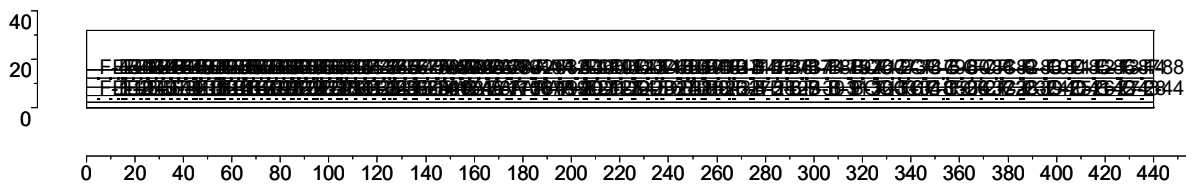


## 2.3 Vista Frontale



### 3. Dati Riepilogativi degli Apparecchi

#### 3.1 Vista 2D in Pianta con Apparecchi



### 3.2 Tabella Riepilogativa degli Apparecchi

Rif.	Dimmer	Posizione Apparecchi x[m] y[m] z[m]	Rotazione Apparecchi rx[°] ry[°] rz[°]	Codice Apparecchio	Codice Sorgente
A-1	100 %	144.50 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-2	100 %	147.60 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-3	100 %	150.85 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-4	100 %	154.27 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-5	100 %	157.86 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-6	100 %	161.63 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-7	100 %	165.59 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-8	100 %	169.30 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-9	100 %	173.65 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-10	100 %	178.39 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-11	100 %	183.56 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-12	100 %	189.19 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-13	100 %	195.33 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-14	100 %	202.03 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-15	100 %	169.30 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-16	100 %	173.65 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-17	100 %	178.39 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-18	100 %	183.56 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-19	100 %	189.19 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-20	100 %	195.33 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-21	100 %	202.03 3.50 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-22	100 %	144.50 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-23	100 %	147.60 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-24	100 %	150.85 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-25	100 %	154.27 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-26	100 %	157.86 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-27	100 %	161.63 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
A-28	100 %	165.59 12.00 5.40	3.0 9.0 0.0	Radiant 8XL_96D650_W218A	96D650 195W
B-1	100 %	248.00 3.50 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-2	100 %	254.00 3.50 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-3	100 %	260.30 3.50 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-4	100 %	266.92 3.50 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-5	100 %	273.86 3.50 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-6	100 %	281.15 3.50 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-7	100 %	288.81 3.50 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-8	100 %	296.85 3.50 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-9	100 %	305.29 3.50 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-10	100 %	314.16 3.50 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-11	100 %	248.00 12.00 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-12	100 %	254.00 12.00 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-13	100 %	260.30 12.00 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-14	100 %	266.92 12.00 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-15	100 %	273.86 12.00 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-16	100 %	281.15 12.00 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-17	100 %	288.81 12.00 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-18	100 %	296.85 12.00 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-19	100 %	305.29 12.00 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
B-20	100 %	314.16 12.00 5.40	0.0 -0.0 0.0	Radiant 8L_48D700_W279A	48D700 106W
C-1	100 %	320.00 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-2	100 %	326.00 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-3	100 %	332.30 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-4	100 %	338.92 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-5	100 %	345.86 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-6	100 %	353.15 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-7	100 %	360.81 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-8	100 %	368.85 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-9	100 %	377.29 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-10	100 %	386.16 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-11	100 %	395.47 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-12	100 %	405.24 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-13	100 %	415.50 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-14	100 %	426.28 12.00 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-15	100 %	320.00 3.50 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-16	100 %	326.00 3.50 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-17	100 %	332.30 3.50 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-18	100 %	338.92 3.50 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W
C-19	100 %	345.86 3.50 5.40	0.0 -0.0 0.0	Radiant 8S 32D530_W279A	32D530 52W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
C-20	100 %	353.15	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D530_W279A	32D530 52W
C-21	100 %	360.81	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D530_W279A	32D530 52W
C-22	100 %	368.85	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D530_W279A	32D530 52W
C-23	100 %	377.29	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D530_W279A	32D530 52W
C-24	100 %	386.16	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D530_W279A	32D530 52W
C-25	100 %	395.47	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D530_W279A	32D530 52W
C-26	100 %	405.24	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D530_W279A	32D530 52W
C-27	100 %	415.50	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D530_W279A	32D530 52W
C-28	100 %	426.28	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D530_W279A	32D530 52W
D-1	100 %	206.00	3.50	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-2	100 %	210.50	3.50	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-3	100 %	215.27	3.50	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-4	100 %	220.33	3.50	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-5	100 %	225.69	3.50	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-6	100 %	231.37	3.50	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-7	100 %	237.39	3.50	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-8	100 %	243.77	3.50	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-9	100 %	250.54	3.50	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-10	100 %	206.00	12.00	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-11	100 %	210.50	12.00	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-12	100 %	215.27	12.00	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-13	100 %	220.33	12.00	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-14	100 %	225.69	12.00	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-15	100 %	231.37	12.00	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-16	100 %	237.39	12.00	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-17	100 %	243.77	12.00	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
D-18	100 %	250.54	12.00	5.40	3.0	9.0	0.0	Radiant 8L_48D700_W218A	48D700 106W
E-1	100 %	10.00	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-2	100 %	13.10	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-3	100 %	16.20	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-4	100 %	19.30	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-5	100 %	22.40	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-6	100 %	25.50	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-7	100 %	28.60	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-8	100 %	31.70	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-9	100 %	34.80	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-10	100 %	37.90	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-11	100 %	41.00	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-12	100 %	44.10	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-13	100 %	47.20	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-14	100 %	50.30	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-15	100 %	53.40	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-16	100 %	56.50	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-17	100 %	59.60	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-18	100 %	62.70	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-19	100 %	65.80	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-20	100 %	68.90	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-21	100 %	72.00	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-22	100 %	75.10	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-23	100 %	78.20	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-24	100 %	81.30	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-25	100 %	84.40	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-26	100 %	87.50	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-27	100 %	90.60	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-28	100 %	93.70	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-29	100 %	96.80	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-30	100 %	100.23	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-31	100 %	103.67	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-32	100 %	107.22	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-33	100 %	110.91	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-34	100 %	114.72	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-35	100 %	118.66	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-36	100 %	122.74	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-37	100 %	126.97	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-38	100 %	131.34	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-39	100 %	135.87	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-40	100 %	140.55	3.50	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-41	100 %	10.00	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-42	100 %	13.10	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-43	100 %	16.20	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W

Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
E-44	100 %	19.30	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-45	100 %	22.40	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-46	100 %	25.50	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-47	100 %	28.60	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-48	100 %	31.70	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-49	100 %	34.80	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-50	100 %	37.90	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-51	100 %	41.00	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-52	100 %	44.10	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-53	100 %	47.20	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-54	100 %	50.30	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-55	100 %	53.40	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-56	100 %	56.50	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-57	100 %	59.60	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-58	100 %	62.70	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-59	100 %	65.80	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-60	100 %	68.90	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-61	100 %	72.00	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-62	100 %	75.10	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-63	100 %	78.20	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-64	100 %	81.30	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-65	100 %	84.40	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-66	100 %	87.50	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-67	100 %	90.60	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-68	100 %	93.70	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-69	100 %	96.91	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-70	100 %	100.23	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-71	100 %	103.67	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-72	100 %	107.22	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-73	100 %	110.91	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-74	100 %	114.72	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-75	100 %	118.66	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-76	100 %	122.74	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-77	100 %	126.97	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-78	100 %	131.34	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-79	100 %	135.87	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
E-80	100 %	140.55	12.00	5.40	9.0	-3.0	90.0	Radiant 8XXL_128D900_W218A	128D900 370W
F-1	100 %	5.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-2	100 %	15.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-3	100 %	25.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-4	100 %	35.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-5	100 %	45.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-6	100 %	55.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-7	100 %	65.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-8	100 %	75.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-9	100 %	85.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-10	100 %	95.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-11	100 %	105.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-12	100 %	115.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-13	100 %	125.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-14	100 %	135.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-15	100 %	145.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-16	100 %	155.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-17	100 %	165.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-18	100 %	175.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-19	100 %	185.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-20	100 %	195.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-21	100 %	205.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-22	100 %	215.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-23	100 %	225.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-24	100 %	235.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-25	100 %	245.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-26	100 %	255.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-27	100 %	265.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-28	100 %	275.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-29	100 %	285.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-30	100 %	295.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-31	100 %	305.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-32	100 %	315.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-33	100 %	325.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W



Rif.	Dimmer	Posizione Apparecchi			Rotazione Apparecchi			Codice Apparecchio	Codice Sorgente
		x[m]	y[m]	z[m]	rx[°]	ry[°]	rz[°]		
F-34	100 %	335.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-35	100 %	345.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-36	100 %	355.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-37	100 %	365.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-38	100 %	375.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-39	100 %	385.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-40	100 %	395.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-41	100 %	405.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-42	100 %	415.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-43	100 %	425.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-44	100 %	435.00	3.50	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-45	100 %	5.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-46	100 %	15.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-47	100 %	25.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-48	100 %	35.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-49	100 %	45.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-50	100 %	55.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-51	100 %	65.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-52	100 %	75.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-53	100 %	85.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-54	100 %	95.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-55	100 %	105.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-56	100 %	115.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-57	100 %	125.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-58	100 %	135.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-59	100 %	145.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-60	100 %	155.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-61	100 %	165.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-62	100 %	175.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-63	100 %	185.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-64	100 %	195.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-65	100 %	205.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-66	100 %	215.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-67	100 %	225.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-68	100 %	235.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-69	100 %	245.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-70	100 %	255.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-71	100 %	265.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-72	100 %	275.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-73	100 %	285.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-74	100 %	295.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-75	100 %	305.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-76	100 %	315.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-77	100 %	325.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-78	100 %	335.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-79	100 %	345.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-80	100 %	355.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-81	100 %	365.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-82	100 %	375.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-83	100 %	385.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-84	100 %	395.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-85	100 %	405.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-86	100 %	415.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-87	100 %	425.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W
F-88	100 %	435.00	12.00	5.40	0.0	-0.0	0.0	Radiant 8S 32D440_W279A	32D440 43W

### 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 8XL_96D650_W218A	100 %	144.50	3.50	5.40	3.0	9.0	0.0	143.64	3.79	-0.00	-71.7
A-2		Radiant 8XL_96D650_W218A	100 %	147.60	3.50	5.40	3.0	9.0	0.0	146.74	3.79	-0.00	-71.7
A-3		Radiant 8XL_96D650_W218A	100 %	150.85	3.50	5.40	3.0	9.0	0.0	150.00	3.79	-0.00	-71.7
A-4		Radiant 8XL_96D650_W218A	100 %	154.27	3.50	5.40	3.0	9.0	0.0	153.42	3.79	-0.00	-71.7
A-5		Radiant 8XL_96D650_W218A	100 %	157.86	3.50	5.40	3.0	9.0	0.0	157.01	3.79	-0.00	-71.7
A-6		Radiant 8XL_96D650_W218A	100 %	161.63	3.50	5.40	3.0	9.0	0.0	160.77	3.79	-0.00	-71.7
A-7		Radiant 8XL_96D650_W218A	100 %	165.59	3.50	5.40	3.0	9.0	0.0	164.73	3.79	-0.00	-71.7
A-8		Radiant 8XL_96D650_W218A	100 %	169.30	12.00	5.40	3.0	9.0	0.0	168.44	12.29	-0.00	-71.7
A-9		Radiant 8XL_96D650_W218A	100 %	173.65	12.00	5.40	3.0	9.0	0.0	172.79	12.29	-0.00	-71.7
A-10		Radiant 8XL_96D650_W218A	100 %	178.39	12.00	5.40	3.0	9.0	0.0	177.54	12.29	-0.00	-71.7
A-11		Radiant 8XL_96D650_W218A	100 %	183.56	12.00	5.40	3.0	9.0	0.0	182.70	12.29	-0.00	-71.7
A-12		Radiant 8XL_96D650_W218A	100 %	189.19	12.00	5.40	3.0	9.0	0.0	188.34	12.29	-0.00	-71.7
A-13		Radiant 8XL_96D650_W218A	100 %	195.33	12.00	5.40	3.0	9.0	0.0	194.48	12.29	-0.00	-71.7
A-14		Radiant 8XL_96D650_W218A	100 %	202.03	12.00	5.40	3.0	9.0	0.0	201.17	12.29	-0.00	-71.7
A-15		Radiant 8XL_96D650_W218A	100 %	169.30	3.50	5.40	3.0	9.0	0.0	168.44	3.79	-0.00	-71.7
A-16		Radiant 8XL_96D650_W218A	100 %	173.65	3.50	5.40	3.0	9.0	0.0	172.79	3.79	-0.00	-71.7
A-17		Radiant 8XL_96D650_W218A	100 %	178.39	3.50	5.40	3.0	9.0	0.0	177.54	3.79	-0.00	-71.7
A-18		Radiant 8XL_96D650_W218A	100 %	183.56	3.50	5.40	3.0	9.0	0.0	182.70	3.79	-0.00	-71.7
A-19		Radiant 8XL_96D650_W218A	100 %	189.19	3.50	5.40	3.0	9.0	0.0	188.34	3.79	-0.00	-71.7
A-20		Radiant 8XL_96D650_W218A	100 %	195.33	3.50	5.40	3.0	9.0	0.0	194.48	3.79	-0.00	-71.7
A-21		Radiant 8XL_96D650_W218A	100 %	202.03	3.50	5.40	3.0	9.0	0.0	201.17	3.79	-0.00	-71.7
A-22		Radiant 8XL_96D650_W218A	100 %	144.50	12.00	5.40	3.0	9.0	0.0	143.64	12.29	-0.00	-71.7
A-23		Radiant 8XL_96D650_W218A	100 %	147.60	12.00	5.40	3.0	9.0	0.0	146.74	12.29	-0.00	-71.7
A-24		Radiant 8XL_96D650_W218A	100 %	150.85	12.00	5.40	3.0	9.0	0.0	150.00	12.29	-0.00	-71.7
A-25		Radiant 8XL_96D650_W218A	100 %	154.27	12.00	5.40	3.0	9.0	0.0	153.42	12.29	-0.00	-71.7
A-26		Radiant 8XL_96D650_W218A	100 %	157.86	12.00	5.40	3.0	9.0	0.0	157.01	12.29	-0.00	-71.7
A-27		Radiant 8XL_96D650_W218A	100 %	161.63	12.00	5.40	3.0	9.0	0.0	160.77	12.29	-0.00	-71.7
A-28		Radiant 8XL_96D650_W218A	100 %	165.59	12.00	5.40	3.0	9.0	0.0	164.73	12.29	-0.00	-71.7
B-1		Radiant 8L_48D700_W279A	100 %	248.00	3.50	5.40	0.0	-0.0	0.0	248.00	3.50	-0.00	0.0
B-2		Radiant 8L_48D700_W279A	100 %	254.00	3.50	5.40	0.0	-0.0	0.0	254.00	3.50	-0.00	0.0
B-3		Radiant 8L_48D700_W279A	100 %	260.30	3.50	5.40	0.0	-0.0	0.0	260.30	3.50	-0.00	0.0
B-4		Radiant 8L_48D700_W279A	100 %	266.92	3.50	5.40	0.0	-0.0	0.0	266.92	3.50	-0.00	0.0
B-5		Radiant 8L_48D700_W279A	100 %	273.86	3.50	5.40	0.0	-0.0	0.0	273.86	3.50	-0.00	0.0
B-6		Radiant 8L_48D700_W279A	100 %	281.15	3.50	5.40	0.0	-0.0	0.0	281.15	3.50	-0.00	0.0
B-7		Radiant 8L_48D700_W279A	100 %	288.81	3.50	5.40	0.0	-0.0	0.0	288.81	3.50	-0.00	0.0
B-8		Radiant 8L_48D700_W279A	100 %	296.85	3.50	5.40	0.0	-0.0	0.0	296.85	3.50	-0.00	0.0
B-9		Radiant 8L_48D700_W279A	100 %	305.29	3.50	5.40	0.0	-0.0	0.0	305.29	3.50	-0.00	0.0
B-10		Radiant 8L_48D700_W279A	100 %	314.16	3.50	5.40	0.0	-0.0	0.0	314.16	3.50	-0.00	0.0
B-11		Radiant 8L_48D700_W279A	100 %	248.00	12.00	5.40	0.0	-0.0	0.0	248.00	12.00	-0.00	0.0
B-12		Radiant 8L_48D700_W279A	100 %	254.00	12.00	5.40	0.0	-0.0	0.0	254.00	12.00	-0.00	0.0
B-13		Radiant 8L_48D700_W279A	100 %	260.30	12.00	5.40	0.0	-0.0	0.0	260.30	12.00	-0.00	0.0
B-14		Radiant 8L_48D700_W279A	100 %	266.92	12.00	5.40	0.0	-0.0	0.0	266.92	12.00	-0.00	0.0
B-15		Radiant 8L_48D700_W279A	100 %	273.86	12.00	5.40	0.0	-0.0	0.0	273.86	12.00	-0.00	0.0
B-16		Radiant 8L_48D700_W279A	100 %	281.15	12.00	5.40	0.0	-0.0	0.0	281.15	12.00	-0.00	0.0
B-17		Radiant 8L_48D700_W279A	100 %	288.81	12.00	5.40	0.0	-0.0	0.0	288.81	12.00	-0.00	0.0
B-18		Radiant 8L_48D700_W279A	100 %	296.85	12.00	5.40	0.0	-0.0	0.0	296.85	12.00	-0.00	0.0
B-19		Radiant 8L_48D700_W279A	100 %	305.29	12.00	5.40	0.0	-0.0	0.0	305.29	12.00	-0.00	0.0
B-20		Radiant 8L_48D700_W279A	100 %	314.16	12.00	5.40	0.0	-0.0	0.0	314.16	12.00	-0.00	0.0
C-1		Radiant 8S 32D530_W279A	100 %	320.00	12.00	5.40	0.0	-0.0	0.0	320.00	12.00	-0.00	0.0
C-2		Radiant 8S 32D530_W279A	100 %	326.00	12.00	5.40	0.0	-0.0	0.0	326.00	12.00	-0.00	0.0
C-3		Radiant 8S 32D530_W279A	100 %	332.30	12.00	5.40	0.0	-0.0	0.0	332.30	12.00	-0.00	0.0
C-4		Radiant 8S 32D530_W279A	100 %	338.92	12.00	5.40	0.0	-0.0	0.0	338.92	12.00	-0.00	0.0
C-5		Radiant 8S 32D530_W279A	100 %	345.86	12.00	5.40	0.0	-0.0	0.0	345.86	12.00	-0.00	0.0
C-6		Radiant 8S 32D530_W279A	100 %	353.15	12.00	5.40	0.0	-0.0	0.0	353.15	12.00	-0.00	0.0
C-7		Radiant 8S 32D530_W279A	100 %	360.81	12.00	5.40	0.0	-0.0	0.0	360.81	12.00	-0.00	0.0
C-8		Radiant 8S 32D530_W279A	100 %	368.85	12.00	5.40	0.0	-0.0	0.0	368.85	12.00	-0.00	0.0
C-9		Radiant 8S 32D530_W279A	100 %	377.29	12.00	5.40	0.0	-0.0	0.0	377.29	12.00	-0.00	0.0
C-10		Radiant 8S 32D530_W279A	100 %	386.16	12.00	5.40	0.0	-0.0	0.0	386.16	12.00	-0.00	0.0
C-11		Radiant 8S 32D530_W279A	100 %	395.47	12.00	5.40	0.0	-0.0	0.0	395.47	12.00	-0.00	0.0
C-12		Radiant 8S 32D530_W279A	100 %	405.24	12.00	5.40	0.0	-0.0	0.0	405.24	12.00	-0.00	0.0
C-13		Radiant 8S 32D530_W279A	100 %	415.50	12.00	5.40	0.0	-0.0	0.0	415.50	12.00	-0.00	0.0
C-14		Radiant 8S 32D530_W279A	100 %	426.28	12.00	5.40	0.0	-0.0	0.0	426.28	12.00	-0.00	0.0
C-15		Radiant 8S 32D530_W279A	100 %	320.00	3.50	5.40	0.0	-0.0	0.0	320.00	3.50	-0.00	0.0
C-16		Radiant 8S 32D530_W279A	100 %	326.00	3.50	5.40	0.0	-0.0	0.0	326.00	3.50	-0.00	0.0
C-17		Radiant 8S 32D530_W279A	100 %	332.30	3.50	5.40	0.0	-0.0	0.0	332.30	3.50	-0.00	0.0
C-18		Radiant 8S 32D530_W279A	100 %	338.92	3.50	5.40	0.0	-0.0	0.0	338.92	3.50	-0.00	0.0
C-19		Radiant 8S 32D530_W279A	100 %	345.86	3.50	5.40	0.0	-0.0	0.0	345.86	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]	
C-20		Radiant 8S 32D530_W279A	100 %	353.15	3.50	5.40	0.0	-0.0	0.0	353.15	3.50	-0.00	0.0
C-21		Radiant 8S 32D530_W279A	100 %	360.81	3.50	5.40	0.0	-0.0	0.0	360.81	3.50	-0.00	0.0
C-22		Radiant 8S 32D530_W279A	100 %	368.85	3.50	5.40	0.0	-0.0	0.0	368.85	3.50	-0.00	0.0
C-23		Radiant 8S 32D530_W279A	100 %	377.29	3.50	5.40	0.0	-0.0	0.0	377.29	3.50	-0.00	0.0
C-24		Radiant 8S 32D530_W279A	100 %	386.16	3.50	5.40	0.0	-0.0	0.0	386.16	3.50	-0.00	0.0
C-25		Radiant 8S 32D530_W279A	100 %	395.47	3.50	5.40	0.0	-0.0	0.0	395.47	3.50	-0.00	0.0
C-26		Radiant 8S 32D530_W279A	100 %	405.24	3.50	5.40	0.0	-0.0	0.0	405.24	3.50	-0.00	0.0
C-27		Radiant 8S 32D530_W279A	100 %	415.50	3.50	5.40	0.0	-0.0	0.0	415.50	3.50	-0.00	0.0
C-28		Radiant 8S 32D530_W279A	100 %	426.28	3.50	5.40	0.0	-0.0	0.0	426.28	3.50	-0.00	0.0
D-1		Radiant 8L_48D700_W218A	100 %	206.00	3.50	5.40	3.0	9.0	0.0	205.14	3.79	-0.00	-71.7
D-2		Radiant 8L_48D700_W218A	100 %	210.50	3.50	5.40	3.0	9.0	0.0	209.64	3.79	-0.00	-71.7
D-3		Radiant 8L_48D700_W218A	100 %	215.27	3.50	5.40	3.0	9.0	0.0	214.41	3.79	-0.00	-71.7
D-4		Radiant 8L_48D700_W218A	100 %	220.33	3.50	5.40	3.0	9.0	0.0	219.47	3.79	-0.00	-71.7
D-5		Radiant 8L_48D700_W218A	100 %	225.69	3.50	5.40	3.0	9.0	0.0	224.83	3.79	-0.00	-71.7
D-6		Radiant 8L_48D700_W218A	100 %	231.37	3.50	5.40	3.0	9.0	0.0	230.51	3.79	-0.00	-71.7
D-7		Radiant 8L_48D700_W218A	100 %	237.39	3.50	5.40	3.0	9.0	0.0	236.53	3.79	-0.00	-71.7
D-8		Radiant 8L_48D700_W218A	100 %	243.77	3.50	5.40	3.0	9.0	0.0	242.92	3.79	-0.00	-71.7
D-9		Radiant 8L_48D700_W218A	100 %	250.54	3.50	5.40	3.0	9.0	0.0	249.68	3.79	-0.00	-71.7
D-10		Radiant 8L_48D700_W218A	100 %	206.00	12.00	5.40	3.0	9.0	0.0	205.14	12.29	-0.00	-71.7
D-11		Radiant 8L_48D700_W218A	100 %	210.50	12.00	5.40	3.0	9.0	0.0	209.64	12.29	-0.00	-71.7
D-12		Radiant 8L_48D700_W218A	100 %	215.27	12.00	5.40	3.0	9.0	0.0	214.41	12.29	-0.00	-71.7
D-13		Radiant 8L_48D700_W218A	100 %	220.33	12.00	5.40	3.0	9.0	0.0	219.47	12.29	-0.00	-71.7
D-14		Radiant 8L_48D700_W218A	100 %	225.69	12.00	5.40	3.0	9.0	0.0	224.83	12.29	-0.00	-71.7
D-15		Radiant 8L_48D700_W218A	100 %	231.37	12.00	5.40	3.0	9.0	0.0	230.51	12.29	-0.00	-71.7
D-16		Radiant 8L_48D700_W218A	100 %	237.39	12.00	5.40	3.0	9.0	0.0	236.53	12.29	-0.00	-71.7
D-17		Radiant 8L_48D700_W218A	100 %	243.77	12.00	5.40	3.0	9.0	0.0	242.92	12.29	-0.00	-71.7
D-18		Radiant 8L_48D700_W218A	100 %	250.54	12.00	5.40	3.0	9.0	0.0	249.68	12.29	-0.00	-71.7
E-1		Radiant 8XXL_128D900_W218A	100 %	10.00	3.50	5.40	9.0	-3.0	90.0	9.14	3.78	-0.00	18.5
E-2		Radiant 8XXL_128D900_W218A	100 %	13.10	3.50	5.40	9.0	-3.0	90.0	12.24	3.78	-0.00	18.5
E-3		Radiant 8XXL_128D900_W218A	100 %	16.20	3.50	5.40	9.0	-3.0	90.0	15.34	3.78	-0.00	18.5
E-4		Radiant 8XXL_128D900_W218A	100 %	19.30	3.50	5.40	9.0	-3.0	90.0	18.44	3.78	-0.00	18.5
E-5		Radiant 8XXL_128D900_W218A	100 %	22.40	3.50	5.40	9.0	-3.0	90.0	21.54	3.78	-0.00	18.5
E-6		Radiant 8XXL_128D900_W218A	100 %	25.50	3.50	5.40	9.0	-3.0	90.0	24.64	3.78	-0.00	18.5
E-7		Radiant 8XXL_128D900_W218A	100 %	28.60	3.50	5.40	9.0	-3.0	90.0	27.74	3.78	-0.00	18.5
E-8		Radiant 8XXL_128D900_W218A	100 %	31.70	3.50	5.40	9.0	-3.0	90.0	30.84	3.78	-0.00	18.5
E-9		Radiant 8XXL_128D900_W218A	100 %	34.80	3.50	5.40	9.0	-3.0	90.0	33.94	3.78	-0.00	18.5
E-10		Radiant 8XXL_128D900_W218A	100 %	37.90	3.50	5.40	9.0	-3.0	90.0	37.04	3.78	-0.00	18.5
E-11		Radiant 8XXL_128D900_W218A	100 %	41.00	3.50	5.40	9.0	-3.0	90.0	40.14	3.78	-0.00	18.5
E-12		Radiant 8XXL_128D900_W218A	100 %	44.10	3.50	5.40	9.0	-3.0	90.0	43.24	3.78	-0.00	18.5
E-13		Radiant 8XXL_128D900_W218A	100 %	47.20	3.50	5.40	9.0	-3.0	90.0	46.34	3.78	-0.00	18.5
E-14		Radiant 8XXL_128D900_W218A	100 %	50.30	3.50	5.40	9.0	-3.0	90.0	49.44	3.78	-0.00	18.5
E-15		Radiant 8XXL_128D900_W218A	100 %	53.40	3.50	5.40	9.0	-3.0	90.0	52.54	3.78	-0.00	18.5
E-16		Radiant 8XXL_128D900_W218A	100 %	56.50	3.50	5.40	9.0	-3.0	90.0	55.64	3.78	-0.00	18.5
E-17		Radiant 8XXL_128D900_W218A	100 %	59.60	3.50	5.40	9.0	-3.0	90.0	58.74	3.78	-0.00	18.5
E-18		Radiant 8XXL_128D900_W218A	100 %	62.70	3.50	5.40	9.0	-3.0	90.0	61.84	3.78	-0.00	18.5
E-19		Radiant 8XXL_128D900_W218A	100 %	65.80	3.50	5.40	9.0	-3.0	90.0	64.94	3.78	-0.00	18.5
E-20		Radiant 8XXL_128D900_W218A	100 %	68.90	3.50	5.40	9.0	-3.0	90.0	68.04	3.78	-0.00	18.5
E-21		Radiant 8XXL_128D900_W218A	100 %	72.00	3.50	5.40	9.0	-3.0	90.0	71.14	3.78	-0.00	18.5
E-22		Radiant 8XXL_128D900_W218A	100 %	75.10	3.50	5.40	9.0	-3.0	90.0	74.24	3.78	-0.00	18.5
E-23		Radiant 8XXL_128D900_W218A	100 %	78.20	3.50	5.40	9.0	-3.0	90.0	77.34	3.78	-0.00	18.5
E-24		Radiant 8XXL_128D900_W218A	100 %	81.30	3.50	5.40	9.0	-3.0	90.0	80.44	3.78	-0.00	18.5
E-25		Radiant 8XXL_128D900_W218A	100 %	84.40	3.50	5.40	9.0	-3.0	90.0	83.54	3.78	-0.00	18.5
E-26		Radiant 8XXL_128D900_W218A	100 %	87.50	3.50	5.40	9.0	-3.0	90.0	86.64	3.78	-0.00	18.5
E-27		Radiant 8XXL_128D900_W218A	100 %	90.60	3.50	5.40	9.0	-3.0	90.0	89.74	3.78	-0.00	18.5
E-28		Radiant 8XXL_128D900_W218A	100 %	93.70	3.50	5.40	9.0	-3.0	90.0	92.84	3.78	-0.00	18.5
E-29		Radiant 8XXL_128D900_W218A	100 %	96.80	3.50	5.40	9.0	-3.0	90.0	96.05	3.78	-0.00	18.5
E-30		Radiant 8XXL_128D900_W218A	100 %	100.23	3.50	5.40	9.0	-3.0	90.0	99.37	3.78	-0.00	18.5
E-31		Radiant 8XXL_128D900_W218A	100 %	103.67	3.50	5.40	9.0	-3.0	90.0	102.81	3.78	-0.00	18.5
E-32		Radiant 8XXL_128D900_W218A	100 %	107.22	3.50	5.40	9.0	-3.0	90.0	106.37	3.78	-0.00	18.5
E-33		Radiant 8XXL_128D900_W218A	100 %	110.91	3.50	5.40	9.0	-3.0	90.0	110.05	3.78	-0.00	18.5
E-34		Radiant 8XXL_128D900_W218A	100 %	114.72	3.50	5.40	9.0	-3.0	90.0	113.86	3.78	-0.00	18.5
E-35		Radiant 8XXL_128D900_W218A	100 %	118.66	3.50	5.40	9.0	-3.0	90.0	117.80	3.78	-0.00	18.5
E-36		Radiant 8XXL_128D900_W218A	100 %	122.74	3.50	5.40	9.0	-3.0	90.0	121.89	3.78	-0.00	18.5
E-37		Radiant 8XXL_128D900_W218A	100 %	126.97	3.50	5.40	9.0	-3.0	90.0	126.11	3.78	-0.00	18.5
E-38		Radiant 8XXL_128D900_W218A	100 %	131.34	3.50	5.40	9.0	-3.0	90.0	130.48	3.78	-0.00	18.5
E-39		Radiant 8XXL_128D900_W218A	100 %	135.87	3.50	5.40	9.0	-3.0	90.0	135.01	3.78	-0.00	18.5
E-40		Radiant 8XXL_128D900_W218A	100 %	140.55	3.50	5.40	9.0	-3.0	90.0	139.69	3.78	-0.00	18.5
E-41		Radiant 8XXL_128D900_W218A	100 %	10.00	12.00	5.40	9.0	-3.0	90.0	9.14	12.28	-0.00	18.5
E-42		Radiant 8XXL_128D900_W218A	100 %	13.10	12.00	5.40	9.0	-3.0	90.0	12.24	12.28	-0.00	18.5
E-43		Radiant 8XXL_128D900_W218A	100 %	16.20	12.00	5.40	9.0	-3.0	90.0	15.34	12.28	-0.00	18.5

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]	
E-44		Radiant 8XXL_128D900_W218A	100 %	19.30	12.00	5.40	9.0	-3.0	90.0	18.44	12.28	-0.00	18.5
E-45		Radiant 8XXL_128D900_W218A	100 %	22.40	12.00	5.40	9.0	-3.0	90.0	21.54	12.28	-0.00	18.5
E-46		Radiant 8XXL_128D900_W218A	100 %	25.50	12.00	5.40	9.0	-3.0	90.0	24.64	12.28	-0.00	18.5
E-47		Radiant 8XXL_128D900_W218A	100 %	28.60	12.00	5.40	9.0	-3.0	90.0	27.74	12.28	-0.00	18.5
E-48		Radiant 8XXL_128D900_W218A	100 %	31.70	12.00	5.40	9.0	-3.0	90.0	30.84	12.28	-0.00	18.5
E-49		Radiant 8XXL_128D900_W218A	100 %	34.80	12.00	5.40	9.0	-3.0	90.0	33.94	12.28	-0.00	18.5
E-50		Radiant 8XXL_128D900_W218A	100 %	37.90	12.00	5.40	9.0	-3.0	90.0	37.04	12.28	-0.00	18.5
E-51		Radiant 8XXL_128D900_W218A	100 %	41.00	12.00	5.40	9.0	-3.0	90.0	40.14	12.28	-0.00	18.5
E-52		Radiant 8XXL_128D900_W218A	100 %	44.10	12.00	5.40	9.0	-3.0	90.0	43.24	12.28	-0.00	18.5
E-53		Radiant 8XXL_128D900_W218A	100 %	47.20	12.00	5.40	9.0	-3.0	90.0	46.34	12.28	-0.00	18.5
E-54		Radiant 8XXL_128D900_W218A	100 %	50.30	12.00	5.40	9.0	-3.0	90.0	49.44	12.28	-0.00	18.5
E-55		Radiant 8XXL_128D900_W218A	100 %	53.40	12.00	5.40	9.0	-3.0	90.0	52.54	12.28	-0.00	18.5
E-56		Radiant 8XXL_128D900_W218A	100 %	56.50	12.00	5.40	9.0	-3.0	90.0	55.64	12.28	-0.00	18.5
E-57		Radiant 8XXL_128D900_W218A	100 %	59.60	12.00	5.40	9.0	-3.0	90.0	58.74	12.28	-0.00	18.5
E-58		Radiant 8XXL_128D900_W218A	100 %	62.70	12.00	5.40	9.0	-3.0	90.0	61.84	12.28	-0.00	18.5
E-59		Radiant 8XXL_128D900_W218A	100 %	65.80	12.00	5.40	9.0	-3.0	90.0	64.94	12.28	-0.00	18.5
E-60		Radiant 8XXL_128D900_W218A	100 %	68.90	12.00	5.40	9.0	-3.0	90.0	68.04	12.28	-0.00	18.5
E-61		Radiant 8XXL_128D900_W218A	100 %	72.00	12.00	5.40	9.0	-3.0	90.0	71.14	12.28	-0.00	18.5
E-62		Radiant 8XXL_128D900_W218A	100 %	75.10	12.00	5.40	9.0	-3.0	90.0	74.24	12.28	-0.00	18.5
E-63		Radiant 8XXL_128D900_W218A	100 %	78.20	12.00	5.40	9.0	-3.0	90.0	77.34	12.28	-0.00	18.5
E-64		Radiant 8XXL_128D900_W218A	100 %	81.30	12.00	5.40	9.0	-3.0	90.0	80.44	12.28	-0.00	18.5
E-65		Radiant 8XXL_128D900_W218A	100 %	84.40	12.00	5.40	9.0	-3.0	90.0	83.54	12.28	-0.00	18.5
E-66		Radiant 8XXL_128D900_W218A	100 %	87.50	12.00	5.40	9.0	-3.0	90.0	86.64	12.28	-0.00	18.5
E-67		Radiant 8XXL_128D900_W218A	100 %	90.60	12.00	5.40	9.0	-3.0	90.0	89.74	12.28	-0.00	18.5
E-68		Radiant 8XXL_128D900_W218A	100 %	93.70	12.00	5.40	9.0	-3.0	90.0	92.84	12.28	-0.00	18.5
E-69		Radiant 8XXL_128D900_W218A	100 %	96.80	12.00	5.40	9.0	-3.0	90.0	96.04	12.28	-0.00	18.5
E-70		Radiant 8XXL_128D900_W218A	100 %	100.23	12.00	5.40	9.0	-3.0	90.0	99.37	12.28	-0.00	18.5
E-71		Radiant 8XXL_128D900_W218A	100 %	103.67	12.00	5.40	9.0	-3.0	90.0	102.81	12.28	-0.00	18.5
E-72		Radiant 8XXL_128D900_W218A	100 %	107.22	12.00	5.40	9.0	-3.0	90.0	106.37	12.28	-0.00	18.5
E-73		Radiant 8XXL_128D900_W218A	100 %	110.91	12.00	5.40	9.0	-3.0	90.0	110.05	12.28	-0.00	18.5
E-74		Radiant 8XXL_128D900_W218A	100 %	114.72	12.00	5.40	9.0	-3.0	90.0	113.86	12.28	-0.00	18.5
E-75		Radiant 8XXL_128D900_W218A	100 %	118.66	12.00	5.40	9.0	-3.0	90.0	117.80	12.28	-0.00	18.5
E-76		Radiant 8XXL_128D900_W218A	100 %	122.74	12.00	5.40	9.0	-3.0	90.0	121.89	12.28	-0.00	18.5
E-77		Radiant 8XXL_128D900_W218A	100 %	126.97	12.00	5.40	9.0	-3.0	90.0	126.11	12.28	-0.00	18.5
E-78		Radiant 8XXL_128D900_W218A	100 %	131.34	12.00	5.40	9.0	-3.0	90.0	130.48	12.28	-0.00	18.5
E-79		Radiant 8XXL_128D900_W218A	100 %	135.87	12.00	5.40	9.0	-3.0	90.0	135.01	12.28	-0.00	18.5
E-80		Radiant 8XXL_128D900_W218A	100 %	140.55	12.00	5.40	9.0	-3.0	90.0	139.69	12.28	-0.00	18.5
F-1		Radiant 8S 32D440_W279A	100 %	5.00	3.50	5.40	0.0	-0.0	0.0	5.00	3.50	-0.00	0.0
F-2		Radiant 8S 32D440_W279A	100 %	15.00	3.50	5.40	0.0	-0.0	0.0	15.00	3.50	-0.00	0.0
F-3		Radiant 8S 32D440_W279A	100 %	25.00	3.50	5.40	0.0	-0.0	0.0	25.00	3.50	-0.00	0.0
F-4		Radiant 8S 32D440_W279A	100 %	35.00	3.50	5.40	0.0	-0.0	0.0	35.00	3.50	-0.00	0.0
F-5		Radiant 8S 32D440_W279A	100 %	45.00	3.50	5.40	0.0	-0.0	0.0	45.00	3.50	-0.00	0.0
F-6		Radiant 8S 32D440_W279A	100 %	55.00	3.50	5.40	0.0	-0.0	0.0	55.00	3.50	-0.00	0.0
F-7		Radiant 8S 32D440_W279A	100 %	65.00	3.50	5.40	0.0	-0.0	0.0	65.00	3.50	-0.00	0.0
F-8		Radiant 8S 32D440_W279A	100 %	75.00	3.50	5.40	0.0	-0.0	0.0	75.00	3.50	-0.00	0.0
F-9		Radiant 8S 32D440_W279A	100 %	85.00	3.50	5.40	0.0	-0.0	0.0	85.00	3.50	-0.00	0.0
F-10		Radiant 8S 32D440_W279A	100 %	95.00	3.50	5.40	0.0	-0.0	0.0	95.00	3.50	-0.00	0.0
F-11		Radiant 8S 32D440_W279A	100 %	105.00	3.50	5.40	0.0	-0.0	0.0	105.00	3.50	-0.00	0.0
F-12		Radiant 8S 32D440_W279A	100 %	115.00	3.50	5.40	0.0	-0.0	0.0	115.00	3.50	-0.00	0.0
F-13		Radiant 8S 32D440_W279A	100 %	125.00	3.50	5.40	0.0	-0.0	0.0	125.00	3.50	-0.00	0.0
F-14		Radiant 8S 32D440_W279A	100 %	135.00	3.50	5.40	0.0	-0.0	0.0	135.00	3.50	-0.00	0.0
F-15		Radiant 8S 32D440_W279A	100 %	145.00	3.50	5.40	0.0	-0.0	0.0	145.00	3.50	-0.00	0.0
F-16		Radiant 8S 32D440_W279A	100 %	155.00	3.50	5.40	0.0	-0.0	0.0	155.00	3.50	-0.00	0.0
F-17		Radiant 8S 32D440_W279A	100 %	165.00	3.50	5.40	0.0	-0.0	0.0	165.00	3.50	-0.00	0.0
F-18		Radiant 8S 32D440_W279A	100 %	175.00	3.50	5.40	0.0	-0.0	0.0	175.00	3.50	-0.00	0.0
F-19		Radiant 8S 32D440_W279A	100 %	185.00	3.50	5.40	0.0	-0.0	0.0	185.00	3.50	-0.00	0.0
F-20		Radiant 8S 32D440_W279A	100 %	195.00	3.50	5.40	0.0	-0.0	0.0	195.00	3.50	-0.00	0.0
F-21		Radiant 8S 32D440_W279A	100 %	205.00	3.50	5.40	0.0	-0.0	0.0	205.00	3.50	-0.00	0.0
F-22		Radiant 8S 32D440_W279A	100 %	215.00	3.50	5.40	0.0	-0.0	0.0	215.00	3.50	-0.00	0.0
F-23		Radiant 8S 32D440_W279A	100 %	225.00	3.50	5.40	0.0	-0.0	0.0	225.00	3.50	-0.00	0.0
F-24		Radiant 8S 32D440_W279A	100 %	235.00	3.50	5.40	0.0	-0.0	0.0	235.00	3.50	-0.00	0.0
F-25		Radiant 8S 32D440_W279A	100 %	245.00	3.50	5.40	0.0	-0.0	0.0	245.00	3.50	-0.00	0.0
F-26		Radiant 8S 32D440_W279A	100 %	255.00	3.50	5.40	0.0	-0.0	0.0	255.00	3.50	-0.00	0.0
F-27		Radiant 8S 32D440_W279A	100 %	265.00	3.50	5.40	0.0	-0.0	0.0	265.00	3.50	-0.00	0.0
F-28		Radiant 8S 32D440_W279A	100 %	275.00	3.50	5.40	0.0	-0.0	0.0	275.00	3.50	-0.00	0.0
F-29		Radiant 8S 32D440_W279A	100 %	285.00	3.50	5.40	0.0	-0.0	0.0	285.00	3.50	-0.00	0.0
F-30		Radiant 8S 32D440_W279A	100 %	295.00	3.50	5.40	0.0	-0.0	0.0	295.00	3.50	-0.00	0.0
F-31		Radiant 8S 32D440_W279A	100 %	305.00	3.50	5.40	0.0	-0.0	0.0	305.00	3.50	-0.00	0.0
F-32		Radiant 8S 32D440_W279A	100 %	315.00	3.50	5.40	0.0	-0.0	0.0	315.00	3.50	-0.00	0.0
F-33		Radiant 8S 32D440_W279A	100 %	325.00	3.50	5.40	0.0	-0.0	0.0	325.00	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]	
	F-34	Radiant 8S 32D440_W279A	100 %	335.00	3.50	5.40	0.0	-0.0	0.0	335.00	3.50	-0.00	0.0
	F-35	Radiant 8S 32D440_W279A	100 %	345.00	3.50	5.40	0.0	-0.0	0.0	345.00	3.50	-0.00	0.0
	F-36	Radiant 8S 32D440_W279A	100 %	355.00	3.50	5.40	0.0	-0.0	0.0	355.00	3.50	-0.00	0.0
	F-37	Radiant 8S 32D440_W279A	100 %	365.00	3.50	5.40	0.0	-0.0	0.0	365.00	3.50	-0.00	0.0
	F-38	Radiant 8S 32D440_W279A	100 %	375.00	3.50	5.40	0.0	-0.0	0.0	375.00	3.50	-0.00	0.0
	F-39	Radiant 8S 32D440_W279A	100 %	385.00	3.50	5.40	0.0	-0.0	0.0	385.00	3.50	-0.00	0.0
	F-40	Radiant 8S 32D440_W279A	100 %	395.00	3.50	5.40	0.0	-0.0	0.0	395.00	3.50	-0.00	0.0
	F-41	Radiant 8S 32D440_W279A	100 %	405.00	3.50	5.40	0.0	-0.0	0.0	405.00	3.50	-0.00	0.0
	F-42	Radiant 8S 32D440_W279A	100 %	415.00	3.50	5.40	0.0	-0.0	0.0	415.00	3.50	-0.00	0.0
	F-43	Radiant 8S 32D440_W279A	100 %	425.00	3.50	5.40	0.0	-0.0	0.0	425.00	3.50	-0.00	0.0
	F-44	Radiant 8S 32D440_W279A	100 %	435.00	3.50	5.40	0.0	-0.0	0.0	435.00	3.50	-0.00	0.0
	F-45	Radiant 8S 32D440_W279A	100 %	5.00	12.00	5.40	0.0	-0.0	0.0	5.00	12.00	-0.00	0.0
	F-46	Radiant 8S 32D440_W279A	100 %	15.00	12.00	5.40	0.0	-0.0	0.0	15.00	12.00	-0.00	0.0
	F-47	Radiant 8S 32D440_W279A	100 %	25.00	12.00	5.40	0.0	-0.0	0.0	25.00	12.00	-0.00	0.0
	F-48	Radiant 8S 32D440_W279A	100 %	35.00	12.00	5.40	0.0	-0.0	0.0	35.00	12.00	-0.00	0.0
	F-49	Radiant 8S 32D440_W279A	100 %	45.00	12.00	5.40	0.0	-0.0	0.0	45.00	12.00	-0.00	0.0
	F-50	Radiant 8S 32D440_W279A	100 %	55.00	12.00	5.40	0.0	-0.0	0.0	55.00	12.00	-0.00	0.0
	F-51	Radiant 8S 32D440_W279A	100 %	65.00	12.00	5.40	0.0	-0.0	0.0	65.00	12.00	-0.00	0.0
	F-52	Radiant 8S 32D440_W279A	100 %	75.00	12.00	5.40	0.0	-0.0	0.0	75.00	12.00	-0.00	0.0
	F-53	Radiant 8S 32D440_W279A	100 %	85.00	12.00	5.40	0.0	-0.0	0.0	85.00	12.00	-0.00	0.0
	F-54	Radiant 8S 32D440_W279A	100 %	95.00	12.00	5.40	0.0	-0.0	0.0	95.00	12.00	-0.00	0.0
	F-55	Radiant 8S 32D440_W279A	100 %	105.00	12.00	5.40	0.0	-0.0	0.0	105.00	12.00	-0.00	0.0
	F-56	Radiant 8S 32D440_W279A	100 %	115.00	12.00	5.40	0.0	-0.0	0.0	115.00	12.00	-0.00	0.0
	F-57	Radiant 8S 32D440_W279A	100 %	125.00	12.00	5.40	0.0	-0.0	0.0	125.00	12.00	-0.00	0.0
	F-58	Radiant 8S 32D440_W279A	100 %	135.00	12.00	5.40	0.0	-0.0	0.0	135.00	12.00	-0.00	0.0
	F-59	Radiant 8S 32D440_W279A	100 %	145.00	12.00	5.40	0.0	-0.0	0.0	145.00	12.00	-0.00	0.0
	F-60	Radiant 8S 32D440_W279A	100 %	155.00	12.00	5.40	0.0	-0.0	0.0	155.00	12.00	-0.00	0.0
	F-61	Radiant 8S 32D440_W279A	100 %	165.00	12.00	5.40	0.0	-0.0	0.0	165.00	12.00	-0.00	0.0
	F-62	Radiant 8S 32D440_W279A	100 %	175.00	12.00	5.40	0.0	-0.0	0.0	175.00	12.00	-0.00	0.0
	F-63	Radiant 8S 32D440_W279A	100 %	185.00	12.00	5.40	0.0	-0.0	0.0	185.00	12.00	-0.00	0.0
	F-64	Radiant 8S 32D440_W279A	100 %	195.00	12.00	5.40	0.0	-0.0	0.0	195.00	12.00	-0.00	0.0
	F-65	Radiant 8S 32D440_W279A	100 %	205.00	12.00	5.40	0.0	-0.0	0.0	205.00	12.00	-0.00	0.0
	F-66	Radiant 8S 32D440_W279A	100 %	215.00	12.00	5.40	0.0	-0.0	0.0	215.00	12.00	-0.00	0.0
	F-67	Radiant 8S 32D440_W279A	100 %	225.00	12.00	5.40	0.0	-0.0	0.0	225.00	12.00	-0.00	0.0
	F-68	Radiant 8S 32D440_W279A	100 %	235.00	12.00	5.40	0.0	-0.0	0.0	235.00	12.00	-0.00	0.0
	F-69	Radiant 8S 32D440_W279A	100 %	245.00	12.00	5.40	0.0	-0.0	0.0	245.00	12.00	-0.00	0.0
	F-70	Radiant 8S 32D440_W279A	100 %	255.00	12.00	5.40	0.0	-0.0	0.0	255.00	12.00	-0.00	0.0
	F-71	Radiant 8S 32D440_W279A	100 %	265.00	12.00	5.40	0.0	-0.0	0.0	265.00	12.00	-0.00	0.0
	F-72	Radiant 8S 32D440_W279A	100 %	275.00	12.00	5.40	0.0	-0.0	0.0	275.00	12.00	-0.00	0.0
	F-73	Radiant 8S 32D440_W279A	100 %	285.00	12.00	5.40	0.0	-0.0	0.0	285.00	12.00	-0.00	0.0
	F-74	Radiant 8S 32D440_W279A	100 %	295.00	12.00	5.40	0.0	-0.0	0.0	295.00	12.00	-0.00	0.0
	F-75	Radiant 8S 32D440_W279A	100 %	305.00	12.00	5.40	0.0	-0.0	0.0	305.00	12.00	-0.00	0.0
	F-76	Radiant 8S 32D440_W279A	100 %	315.00	12.00	5.40	0.0	-0.0	0.0	315.00	12.00	-0.00	0.0
	F-77	Radiant 8S 32D440_W279A	100 %	325.00	12.00	5.40	0.0	-0.0	0.0	325.00	12.00	-0.00	0.0
	F-78	Radiant 8S 32D440_W279A	100 %	335.00	12.00	5.40	0.0	-0.0	0.0	335.00	12.00	-0.00	0.0
	F-79	Radiant 8S 32D440_W279A	100 %	345.00	12.00	5.40	0.0	-0.0	0.0	345.00	12.00	-0.00	0.0
	F-80	Radiant 8S 32D440_W279A	100 %	355.00	12.00	5.40	0.0	-0.0	0.0	355.00	12.00	-0.00	0.0
	F-81	Radiant 8S 32D440_W279A	100 %	365.00	12.00	5.40	0.0	-0.0	0.0	365.00	12.00	-0.00	0.0
	F-82	Radiant 8S 32D440_W279A	100 %	375.00	12.00	5.40	0.0	-0.0	0.0	375.00	12.00	-0.00	0.0
	F-83	Radiant 8S 32D440_W279A	100 %	385.00	12.00	5.40	0.0	-0.0	0.0	385.00	12.00	-0.00	0.0
	F-84	Radiant 8S 32D440_W279A	100 %	395.00	12.00	5.40	0.0	-0.0	0.0	395.00	12.00	-0.00	0.0
	F-85	Radiant 8S 32D440_W279A	100 %	405.00	12.00	5.40	0.0	-0.0	0.0	405.00	12.00	-0.00	0.0
	F-86	Radiant 8S 32D440_W279A	100 %	415.00	12.00	5.40	0.0	-0.0	0.0	415.00	12.00	-0.00	0.0
	F-87	Radiant 8S 32D440_W279A	100 %	425.00	12.00	5.40	0.0	-0.0	0.0	425.00	12.00	-0.00	0.0
	F-88	Radiant 8S 32D440_W279A	100 %	435.00	12.00	5.40	0.0	-0.0	0.0	435.00	12.00	-0.00	0.0

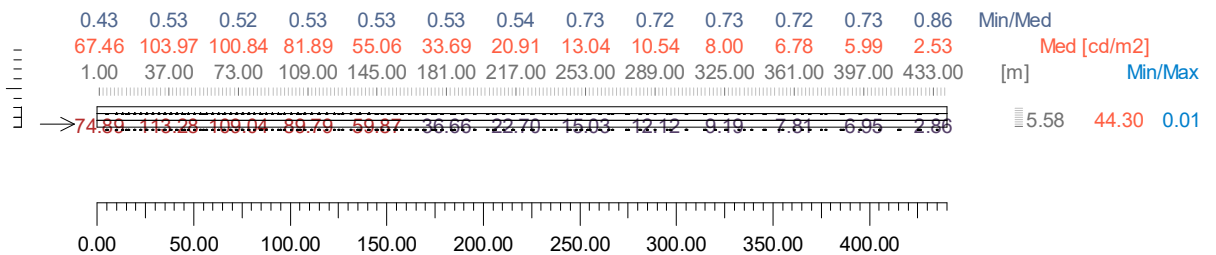
## 4. Tabelle dei Risultati

### 4.1 Valori Luminanza su: 3 - Carreggiata A - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	40.54 cd/m <sup>2</sup>	1.13 cd/m <sup>2</sup>	172.93 cd/m <sup>2</sup>	0.03	0.01	0.23

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

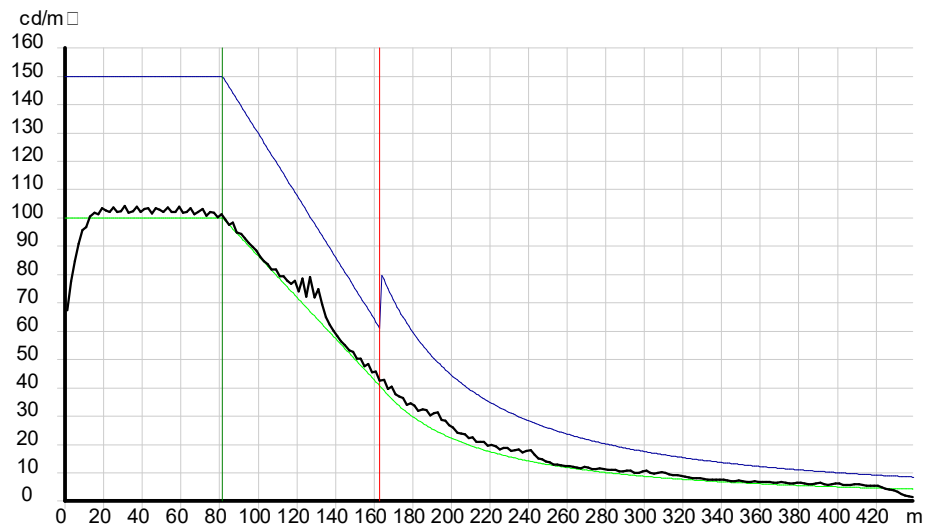


## 4.2 Curva di Luminanza su: 3 - Carreggiata A - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	40.54 cd/m <sup>2</sup>	1.13 cd/m <sup>2</sup>	172.93 cd/m <sup>2</sup>	0.03	0.01	0.23

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

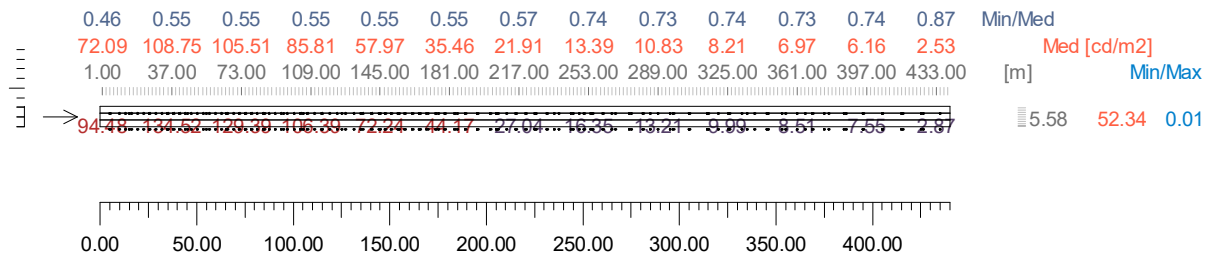


### 4.3 Valori Luminanza su: 3 - Carreggiata A - Oss. 2 [x=-86.00 y=10.25] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	42.40 cd/m2	1.13 cd/m2	174.07 cd/m2	0.03	0.01	0.24

Osservatore  
Tipo Calcolo

[x=-86.00 y=10.25 z=1.50] m => [x=4.00 y=10.25 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

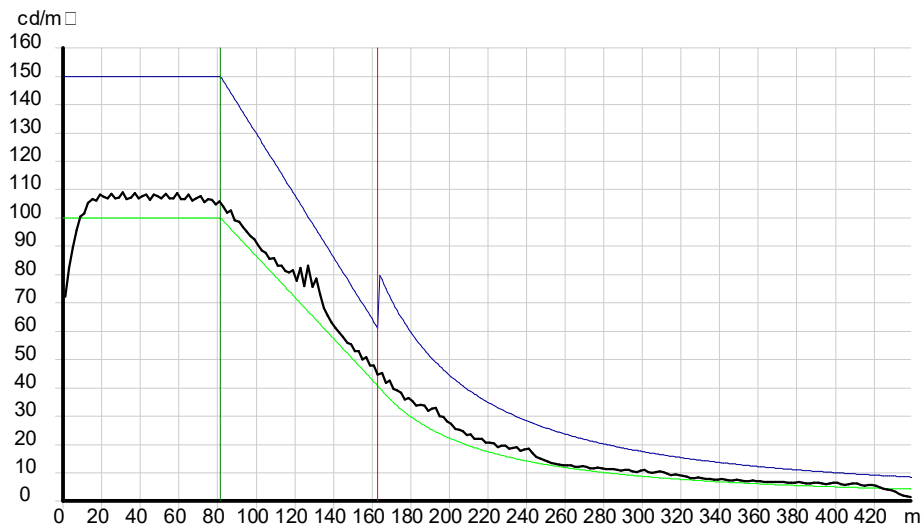


#### 4.4 Curva di Luminanza su: 3 - Carreggiata A - Oss. 2 [x=-86.00 y=10.25] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	42.40 cd/m <sup>2</sup>	1.13 cd/m <sup>2</sup>	174.07 cd/m <sup>2</sup>	0.03	0.01	0.24

Osservatore  
Tipo Calcolo

[x=-86.00 y=10.25 z=1.50] m => [x=4.00 y=10.25 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

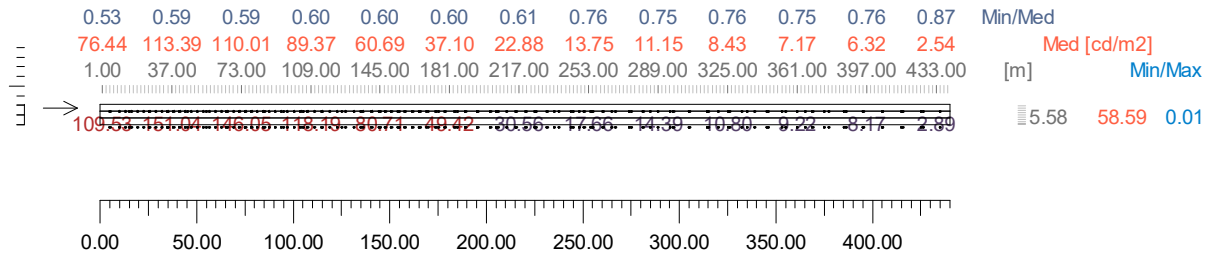


#### 4.5 Valori Luminanza su: 3 - Carreggiata A - Oss. 3 [x=-86.00 y=13.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	44.19 cd/m2	1.13 cd/m2	172.89 cd/m2	0.03	0.01	0.26

Osservatore  
Tipo Calcolo

[x=-86.00 y=13.75 z=1.50] m => [x=4.00 y=13.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)



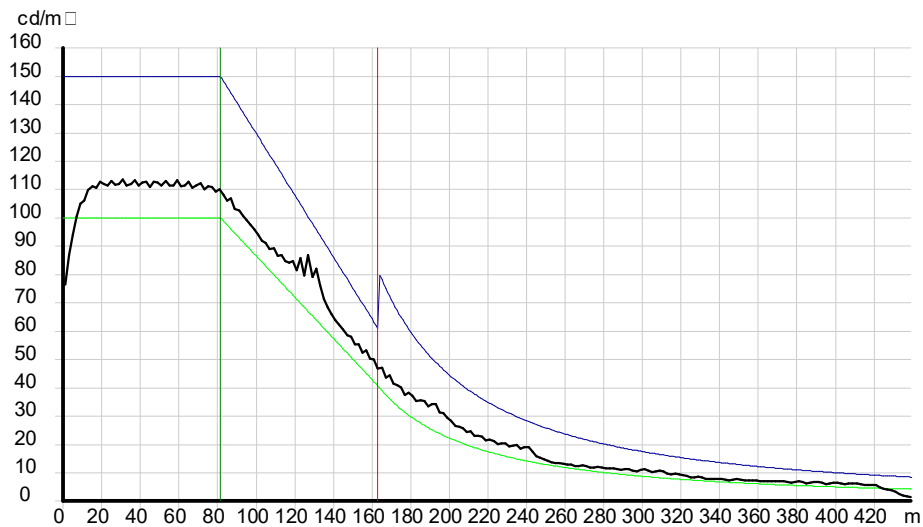


#### 4.6 Curva di Luminanza su: 3 - Carreggiata A - Oss. 3 [x=-86.00 y=13.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	44.19 cd/m <sup>2</sup>	1.13 cd/m <sup>2</sup>	172.89 cd/m <sup>2</sup>	0.03	0.01	0.26

Osservatore  
Tipo Calcolo

[x=-86.00 y=13.75 z=1.50] m => [x=4.00 y=13.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

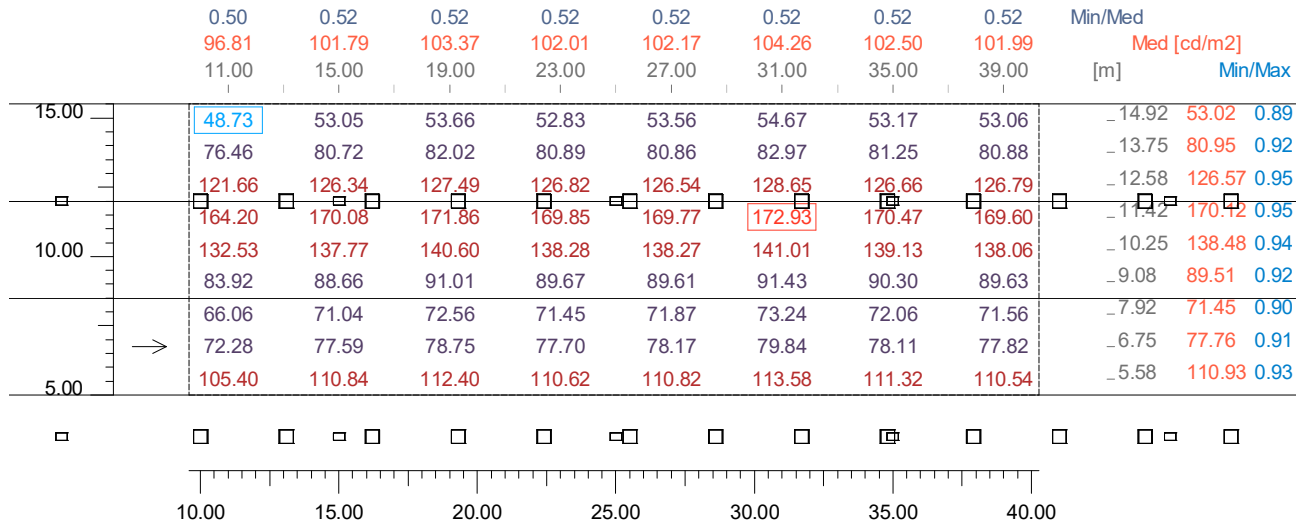


#### 4.7 Valori Luminanza su: 3 - Carreggiata A [Lp,c (10-40m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	102.09 cd/m <sup>2</sup>	48.73 cd/m <sup>2</sup>	172.93 cd/m <sup>2</sup>	0.48	0.28	0.59

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

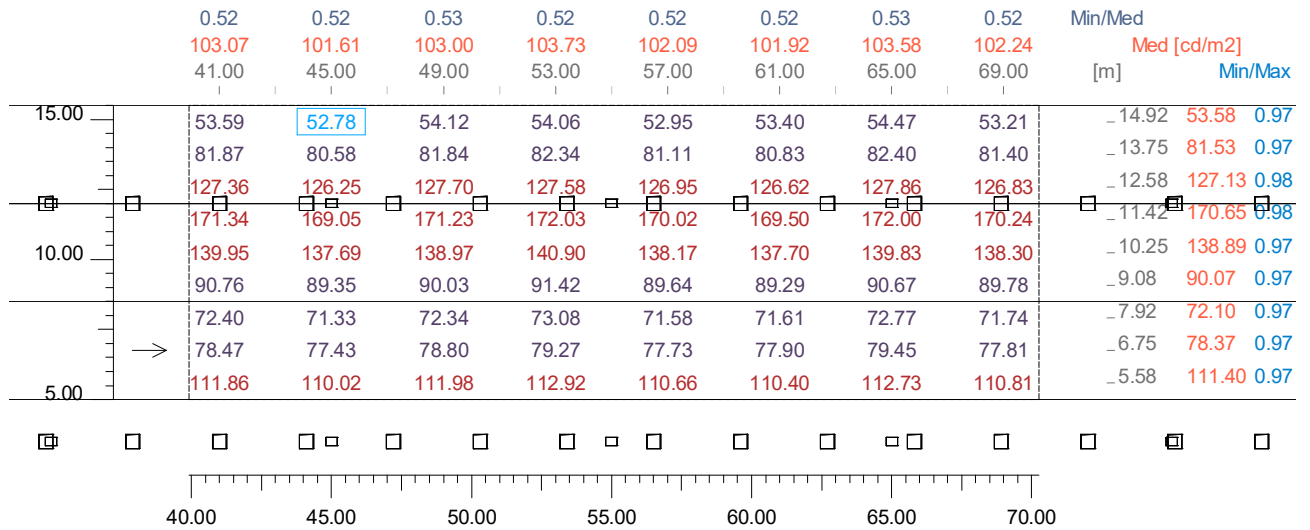


#### 4.8 Valori Luminanza su: 3 - Carreggiata A [Lp,c (40-70m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	102.64 cd/m2	52.78 cd/m2	172.66 cd/m2	0.51	0.31	0.59

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

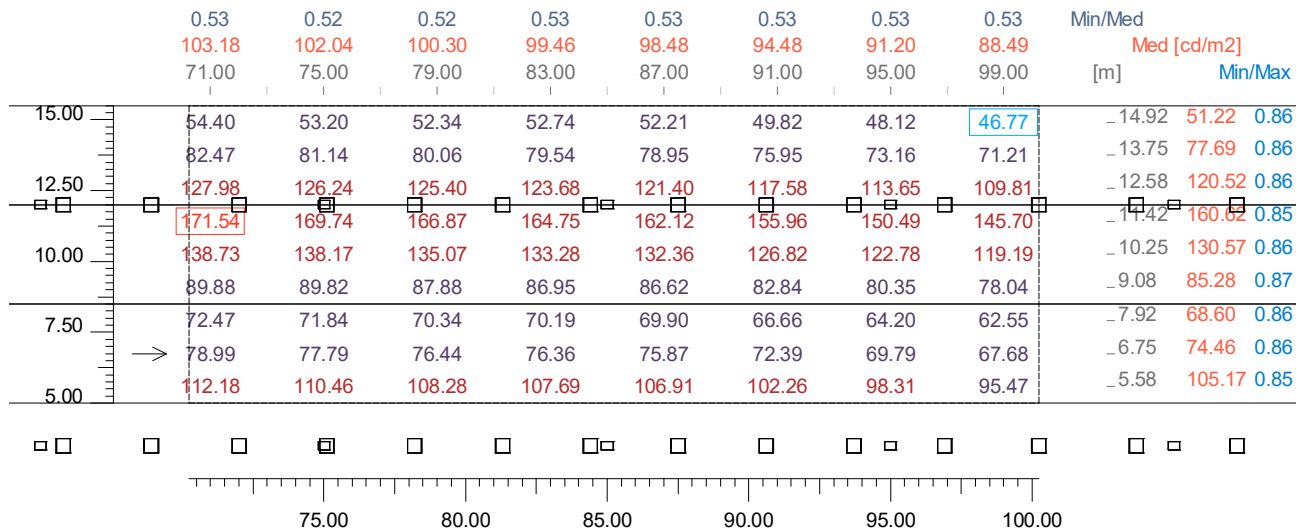


#### 4.9 Valori Luminanza su: 3 - Carreggiata A [Lp,c (70-100m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	97.12 cd/m2	46.77 cd/m2	171.54 cd/m2	0.48	0.27	0.57

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

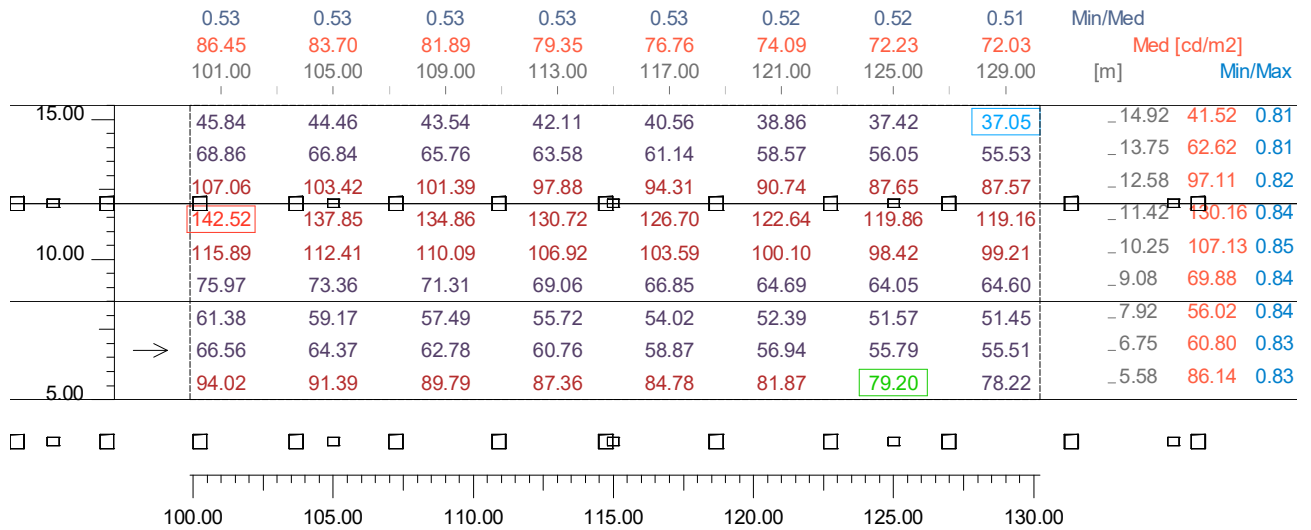


#### 4.10 Valori Luminanza su: 3 - Carreggiata A [Lp,c (100-130m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	79.04 cd/m2	37.05 cd/m2	142.52 cd/m2	0.47	0.26	0.55

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

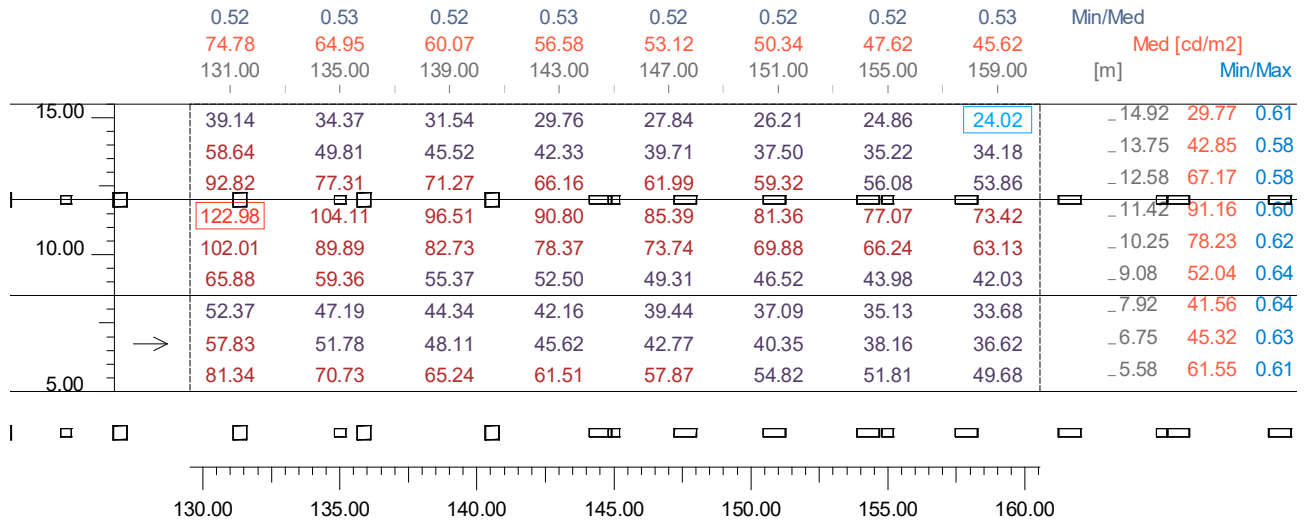


#### 4.11 Valori Luminanza su: 3 - Carreggiata A [Lp,c (130-160m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	56.63 cd/m2	24.02 cd/m2	122.98 cd/m2	0.42	0.20	0.46

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

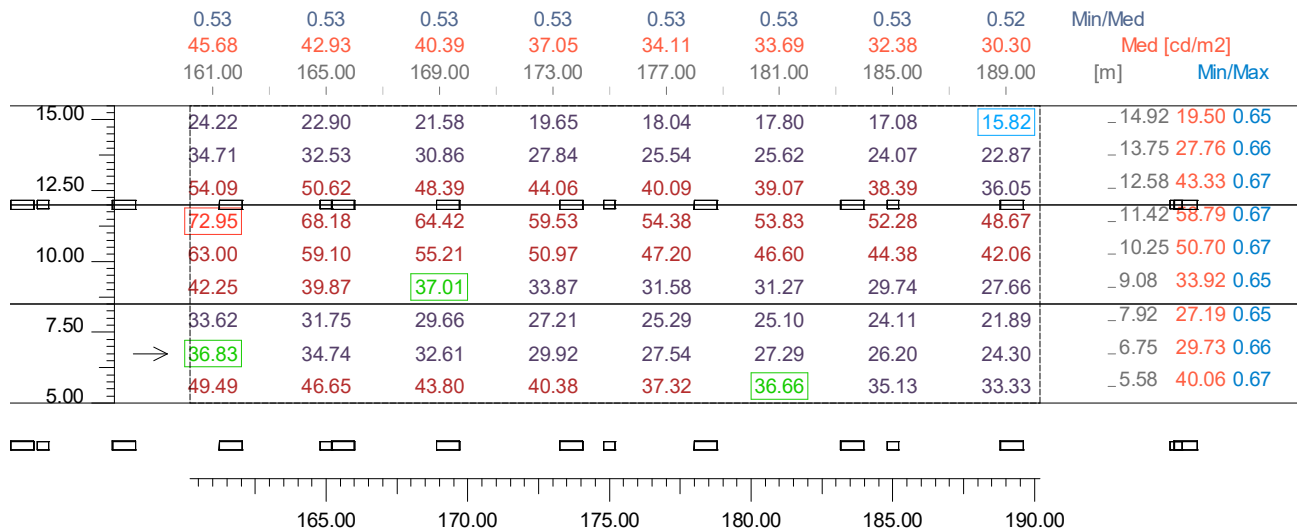


#### 4.12 Valori Luminanza su: 3 - Carreggiata A [Lp,c (160-190m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	36.78 cd/m2	15.82 cd/m2	72.95 cd/m2	0.43	0.22	0.50

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

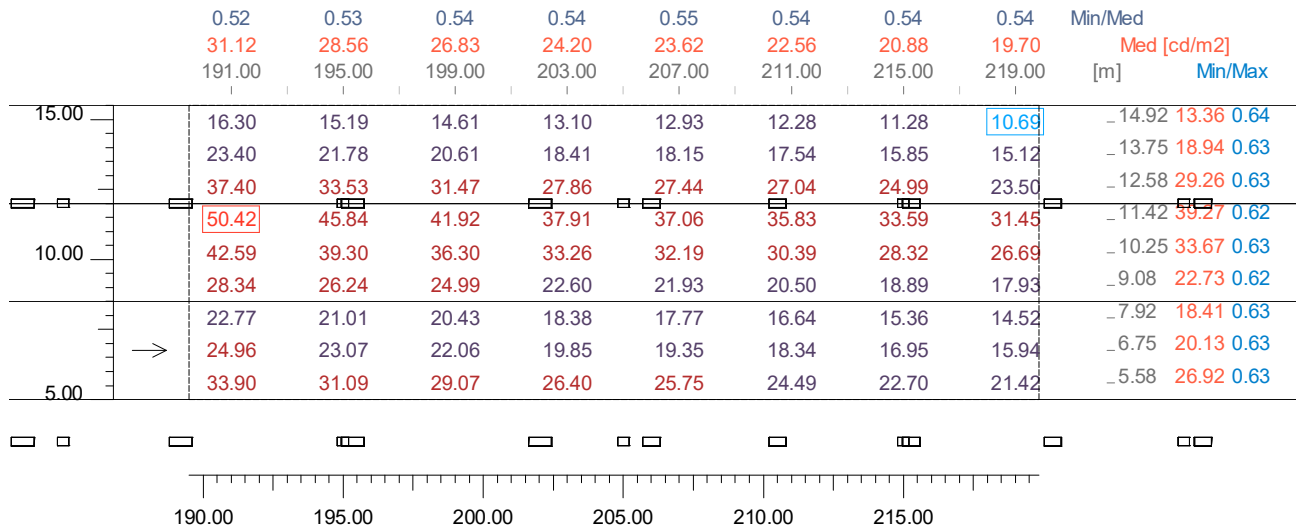


### 4.13 Valori Luminanza su: 3 - Carreggiata A [Lp,c (190-220m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	24.74 cd/m2	10.69 cd/m2	50.42 cd/m2	0.43	0.21	0.49

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)



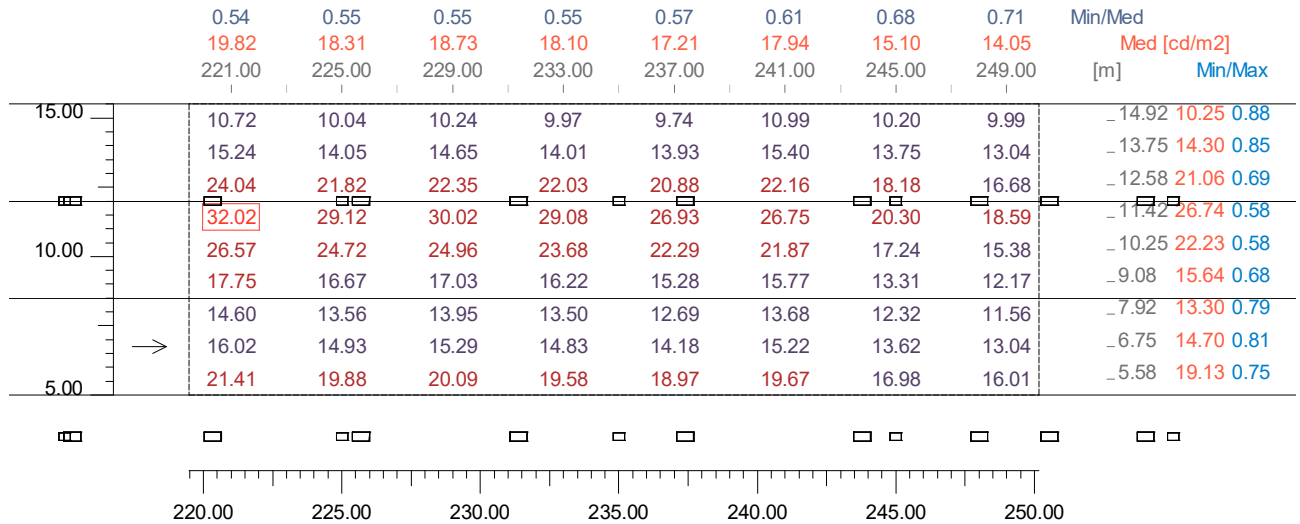


#### 4.14 Valori Luminanza su: 3 - Carreggiata A [Lp,c (220-250m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	17.48 cd/m2	9.72 cd/m2	32.02 cd/m2	0.56	0.30	0.55

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

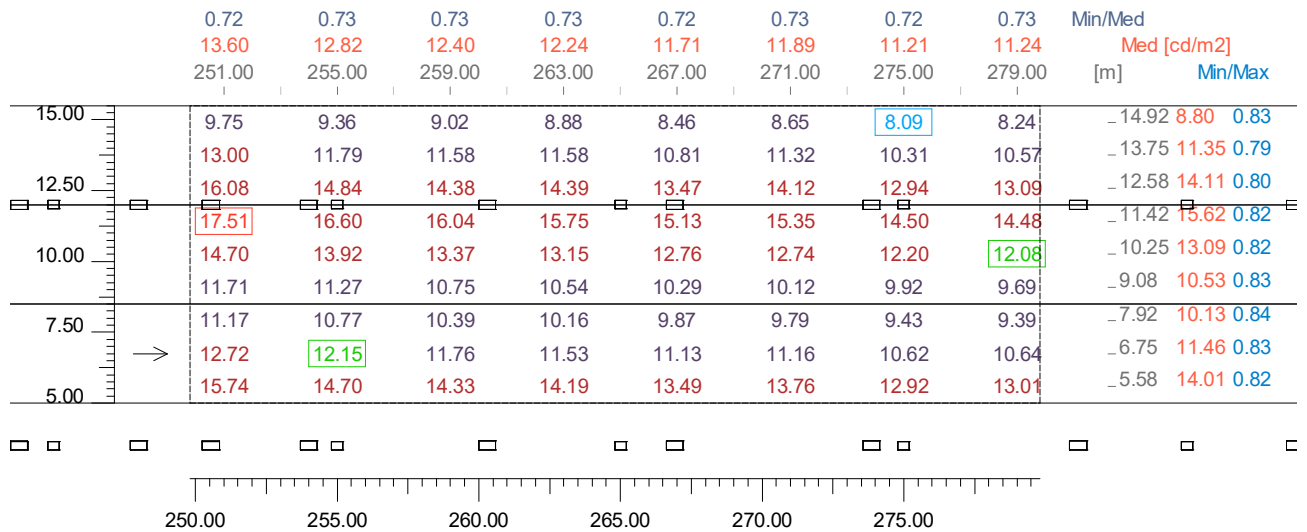


#### 4.15 Valori Luminanza su: 3 - Carreggiata A [Lp,c (250-280m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	12.12 cd/m2	8.09 cd/m2	17.51 cd/m2	0.67	0.46	0.69

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

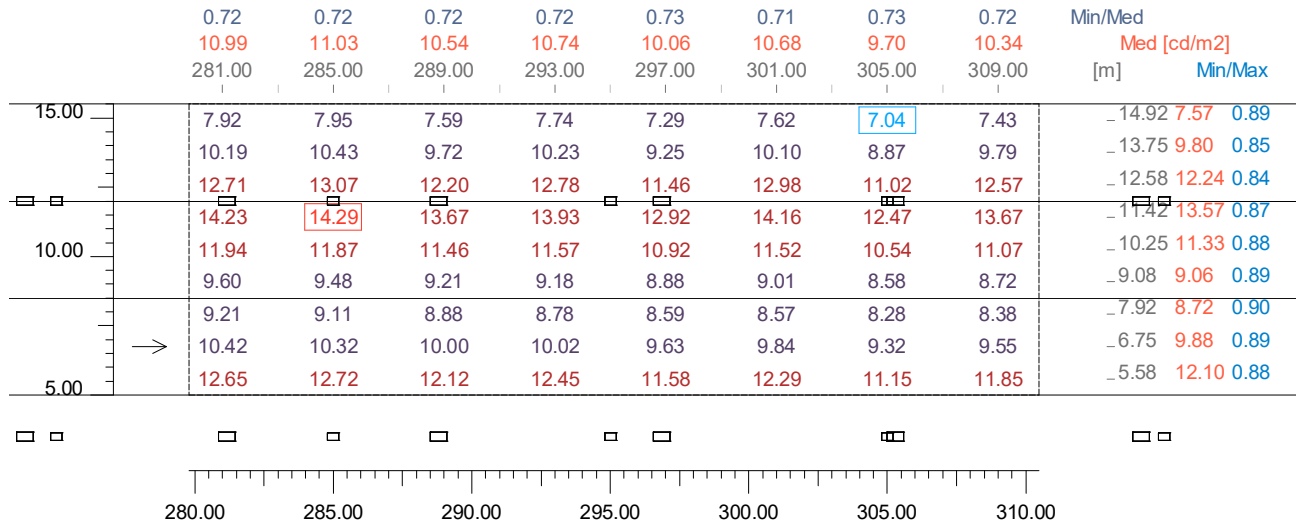


#### 4.16 Valori Luminanza su: 3 - Carreggiata A [Lp,c (280-310m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	10.47 cd/m2	7.04 cd/m2	14.29 cd/m2	0.67	0.49	0.73

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

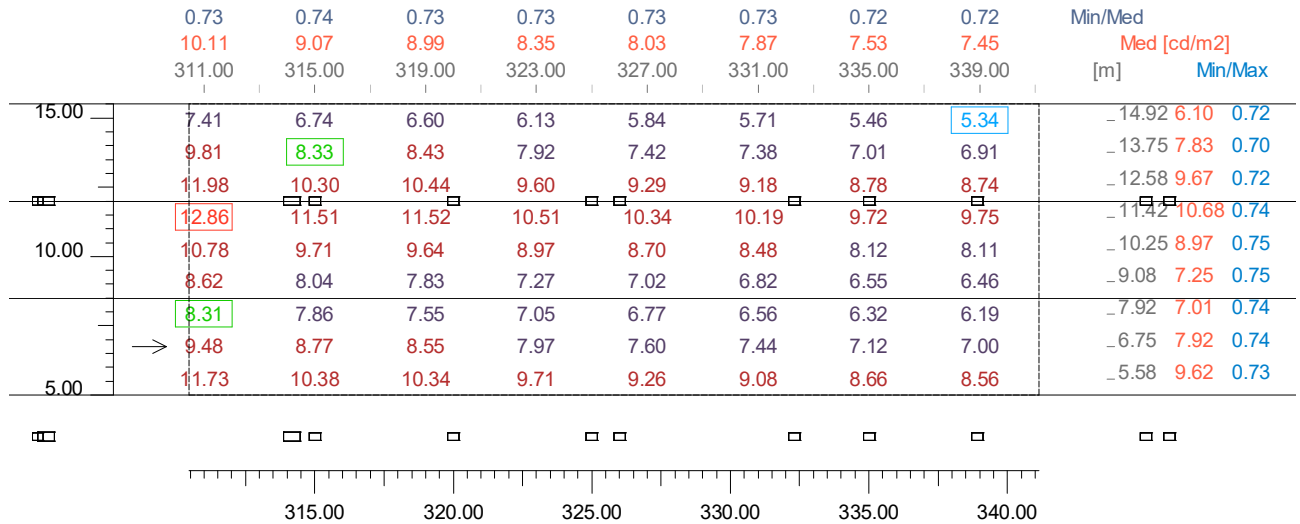


#### 4.17 Valori Luminanza su: 3 - Carreggiata A [Lp,c (310-340m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	8.34 cd/m2	5.34 cd/m2	12.86 cd/m2	0.64	0.42	0.65

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Iindir. (Accuratezza:2)

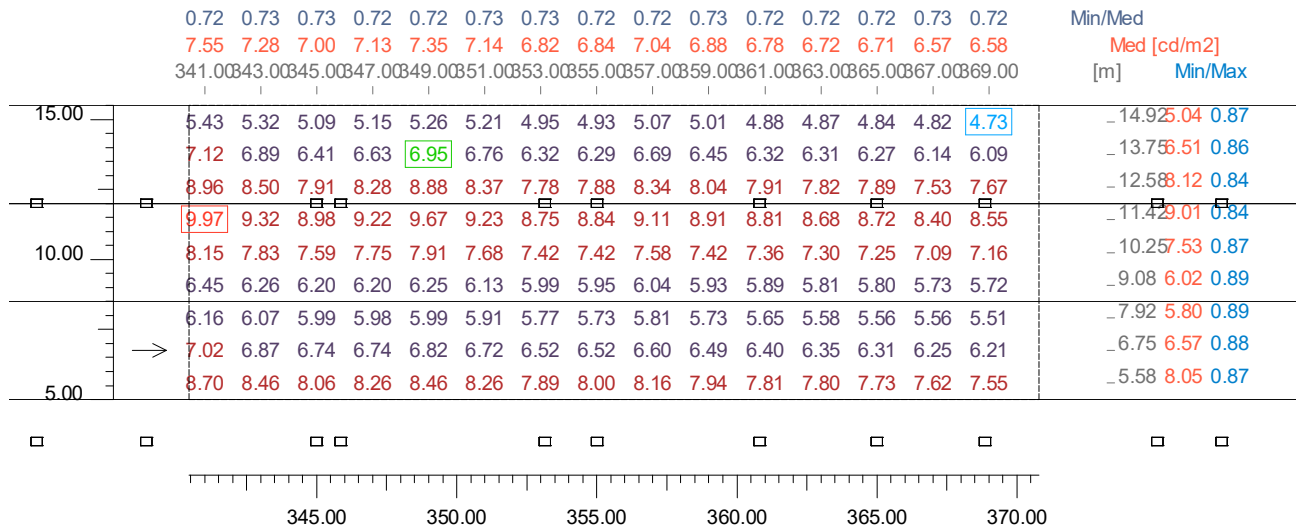


#### 4.18 Valori Luminanza su: 3 - Carreggiata A [Lp,c (340-370m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	6.96 cd/m2	4.73 cd/m2	9.97 cd/m2	0.68	0.47	0.70

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

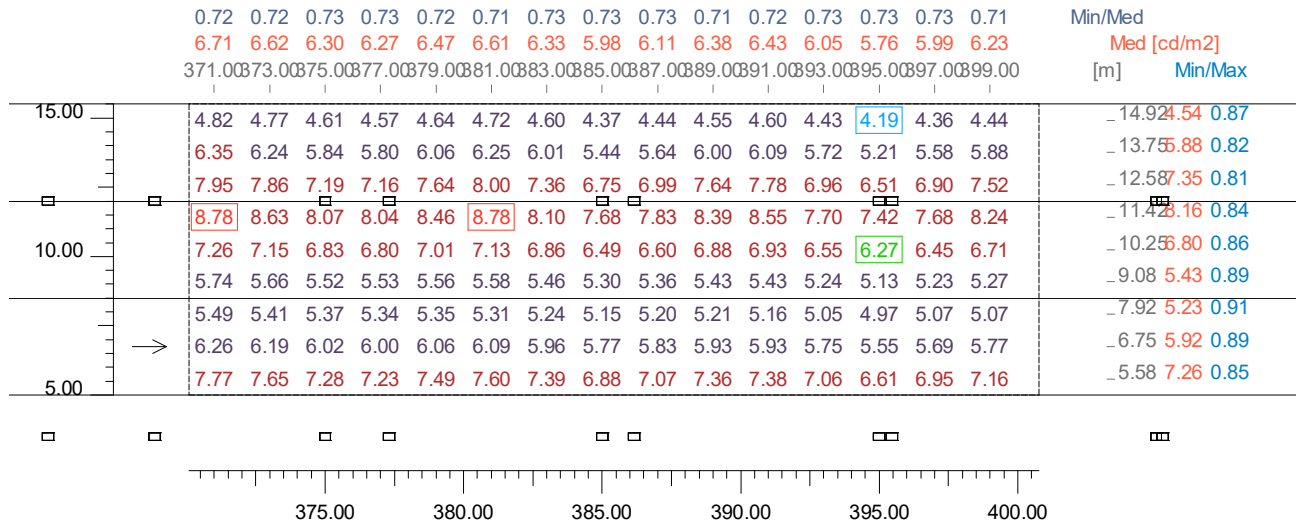


#### 4.19 Valori Luminanza su: 3 - Carreggiata A [Lp,c (370-400m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	6.28 cd/m2	4.19 cd/m2	8.78 cd/m2	0.67	0.48	0.72

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

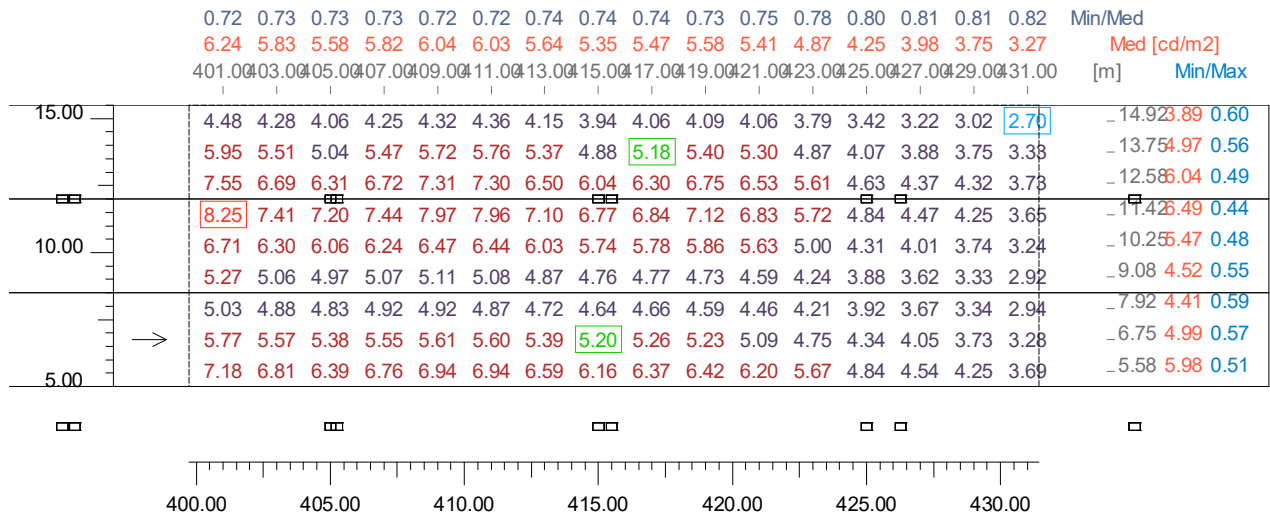


#### 4.20 Valori Luminanza su: 3 - Carreggiata A [Lp,c (400-430m)] - Oss. 1 [x=-86.00 y=6.75] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	5.20 cd/m <sup>2</sup>	2.70 cd/m <sup>2</sup>	8.25 cd/m <sup>2</sup>	0.52	0.33	0.63

Osservatore  
Tipo Calcolo

[x=-86.00 y=6.75 z=1.50] m => [x=4.00 y=6.75 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

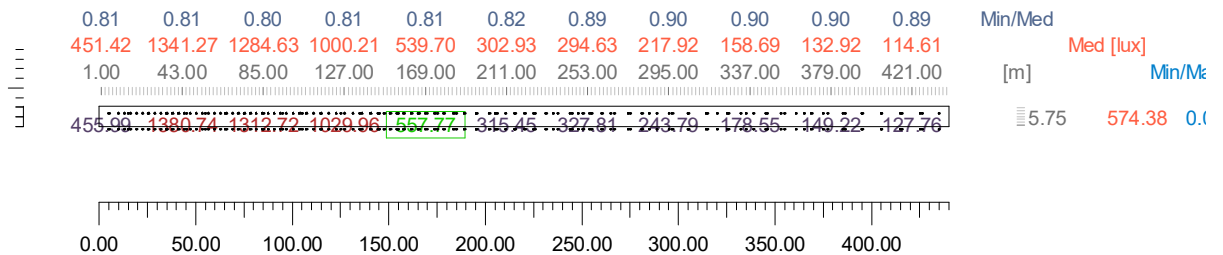


#### 4.21 Valori Illuminamento Orizzontale su: 3 - Carreggiata A

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	551.65 lx	35.14 lx	1474.51 lx	0.06	0.02	0.37

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



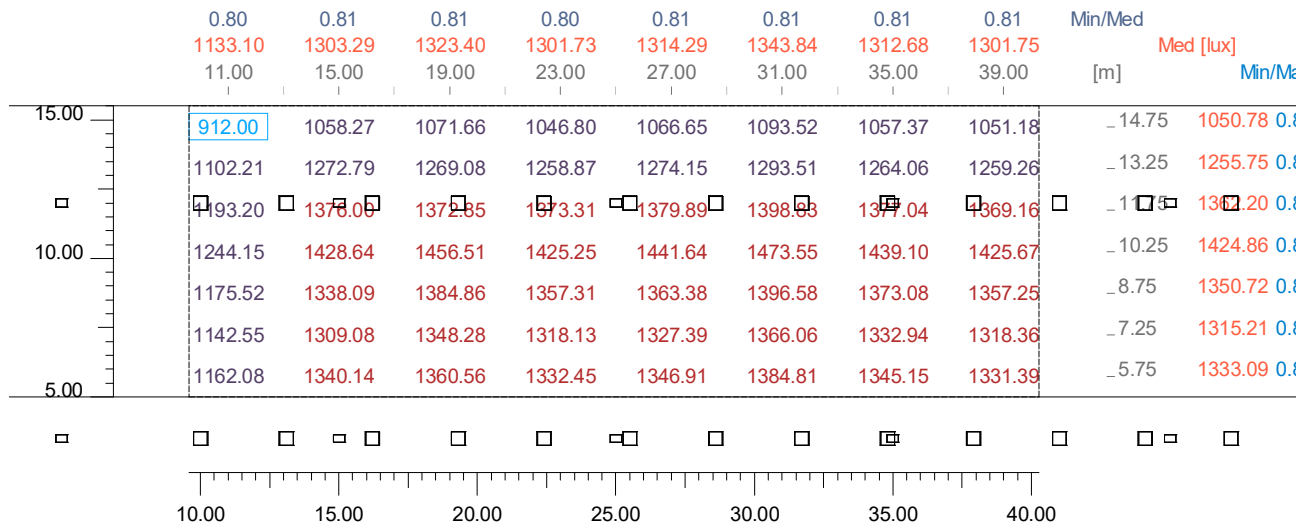


#### 4.22 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (10-40m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	1298.94 lx	912.00 lx	1474.51 lx	0.70	0.62	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

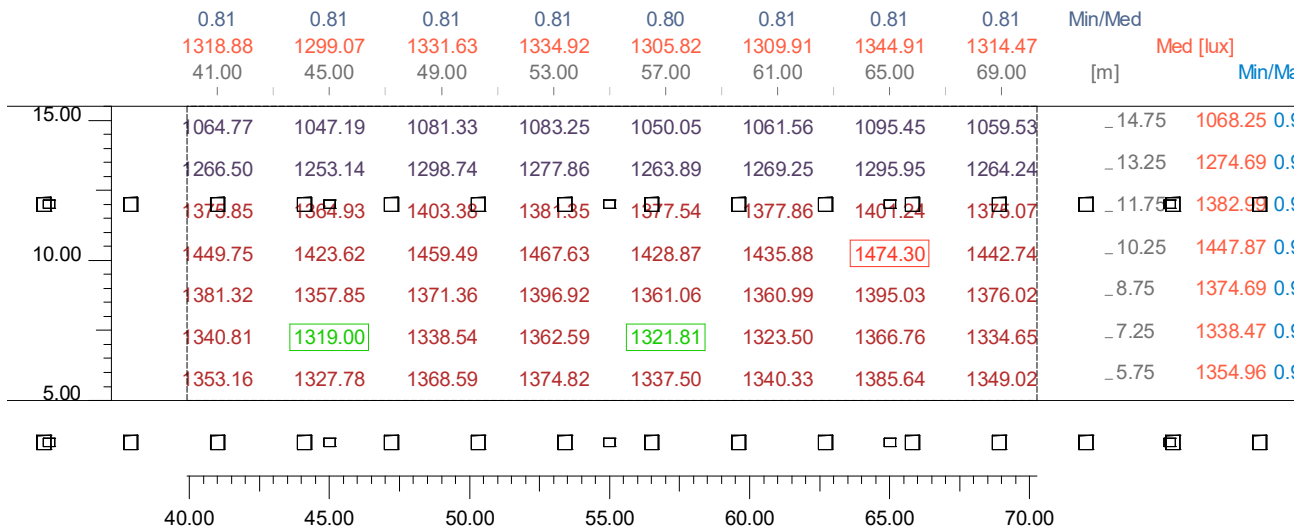


### 4.23 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (40-70m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	1320.28 lx	1046.04 lx	1474.30 lx	0.79	0.71	0.90

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

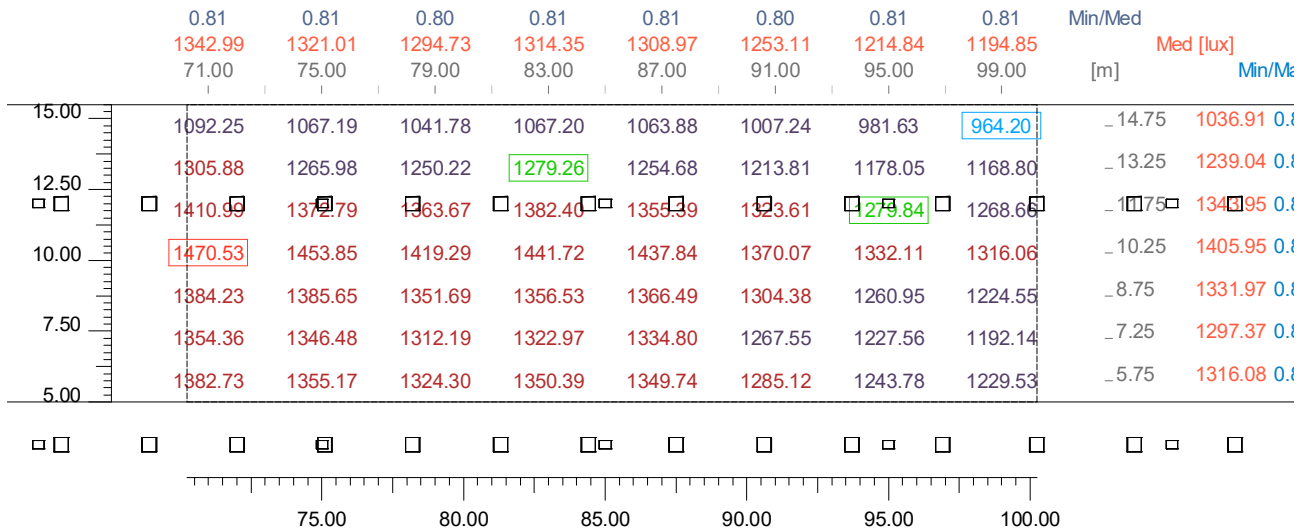


#### 4.24 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (70-100m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	1281.61 lx	964.20 lx	1470.53 lx	0.75	0.66	0.87

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

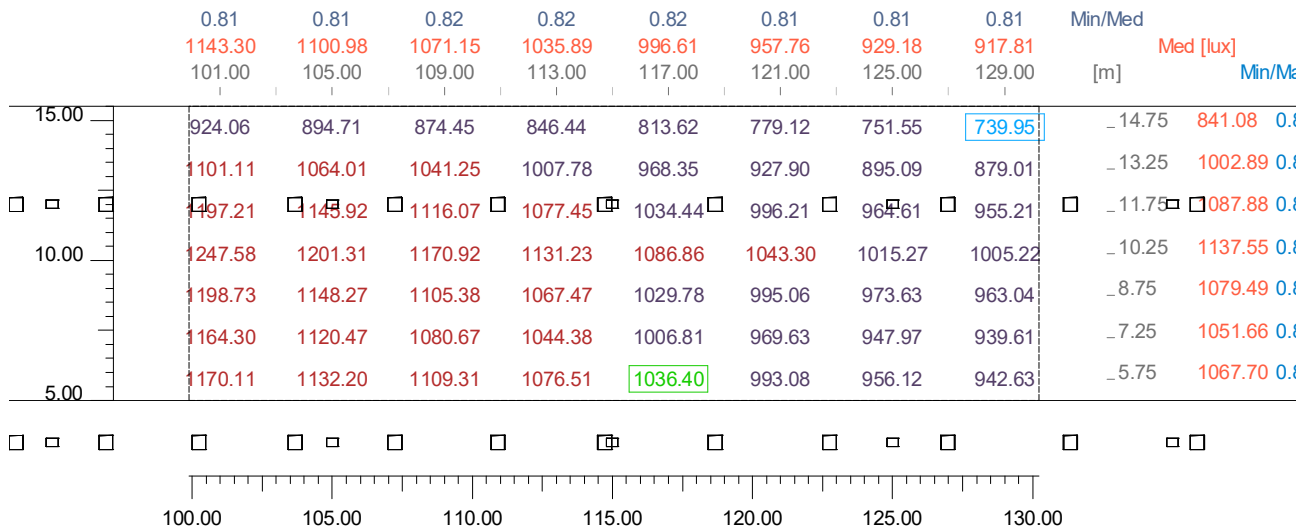


#### 4.25 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (100-130m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	1038.32 lx	739.95 lx	1263.73 lx	0.71	0.59	0.82

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

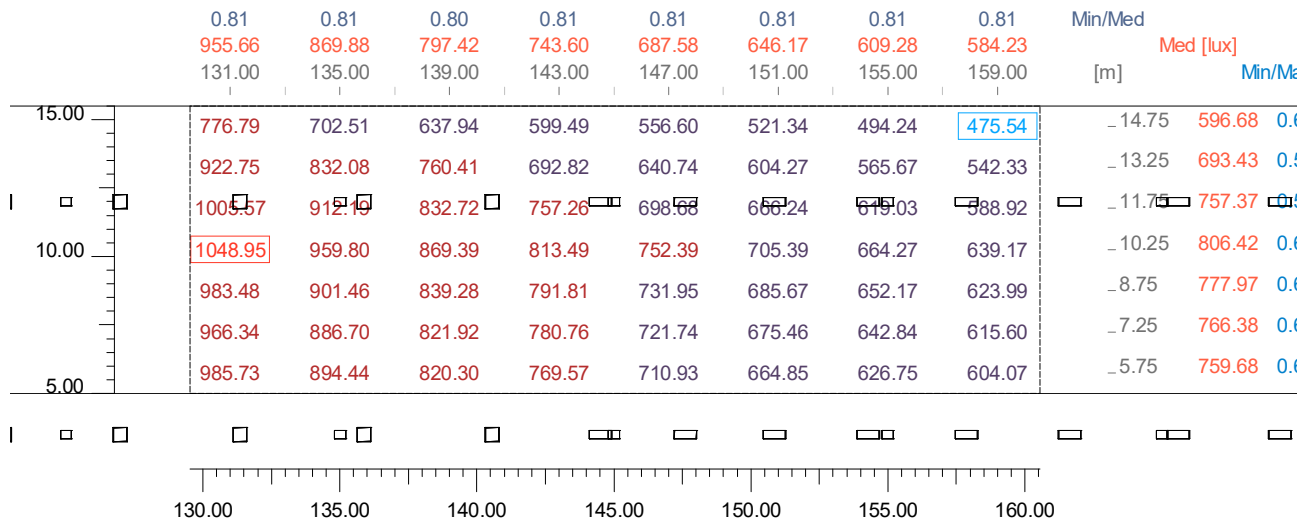


#### 4.26 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (130-160m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	736.85 lx	475.54 lx	1048.95 lx	0.65	0.45	0.70

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

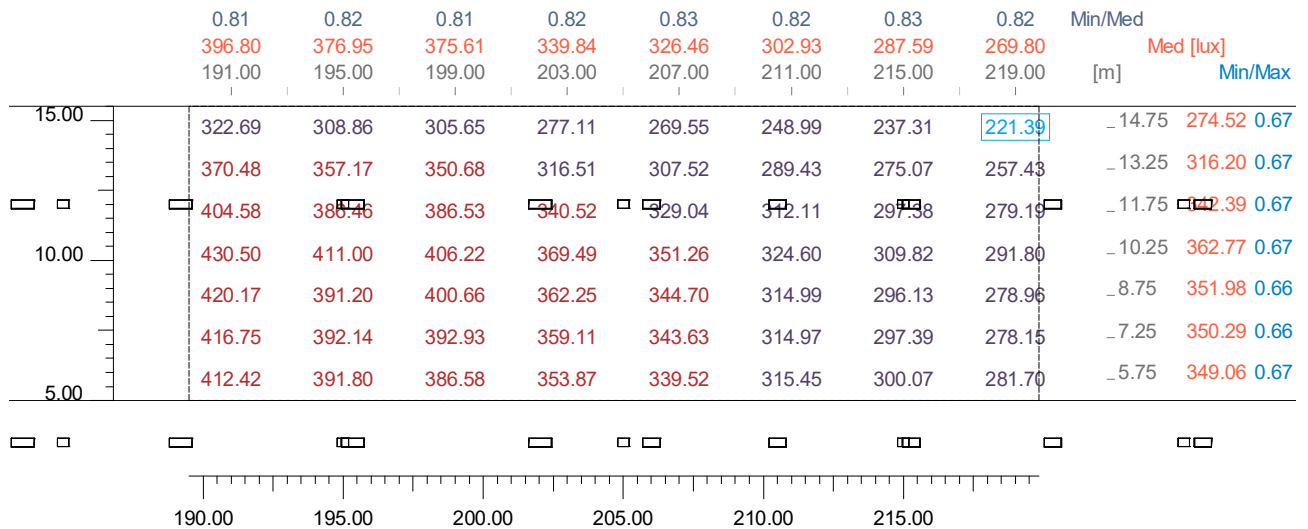


#### 4.27 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (190-220m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	335.32 lx	221.39 lx	438.64 lx	0.66	0.50	0.76

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

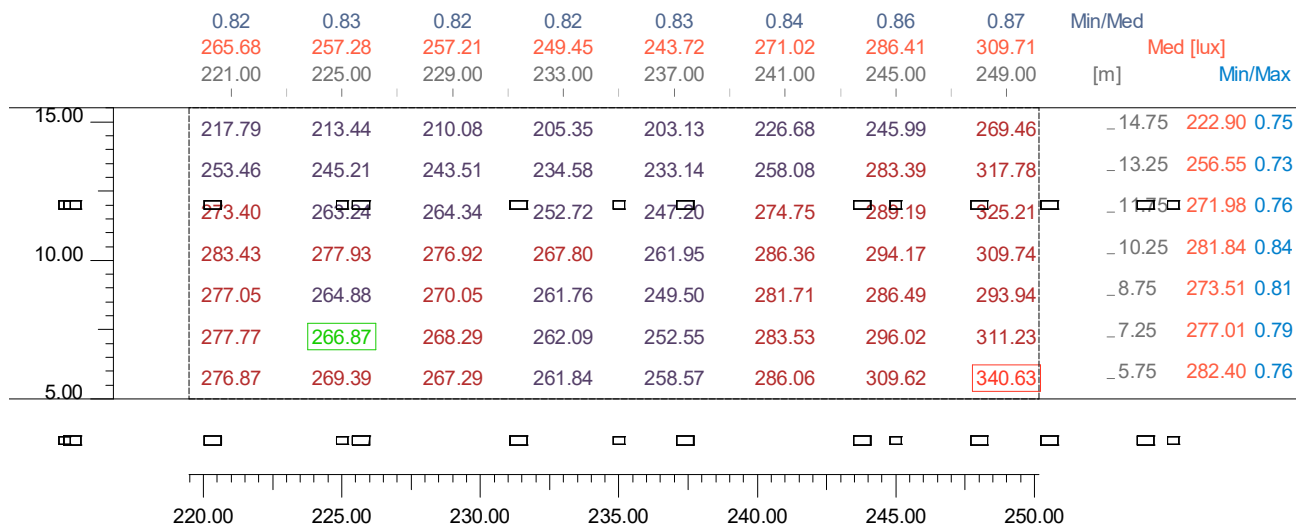


#### 4.28 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (220-250m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	266.60 lx	202.35 lx	340.63 lx	0.76	0.59	0.78

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

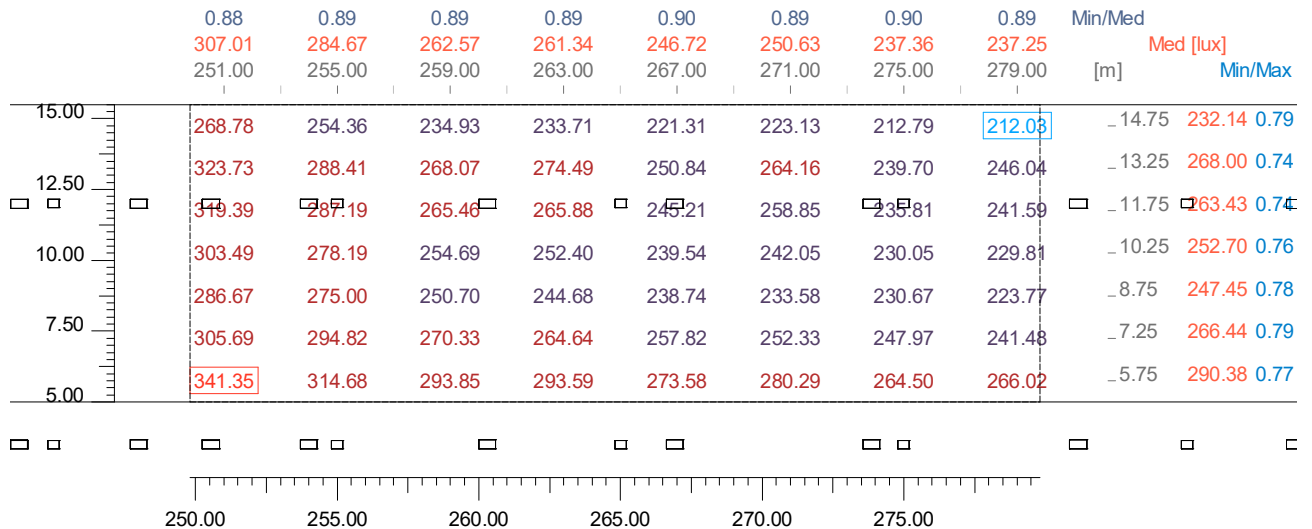


#### 4.29 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (250-280m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	260.08 lx	212.03 lx	341.35 lx	0.82	0.62	0.76

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)



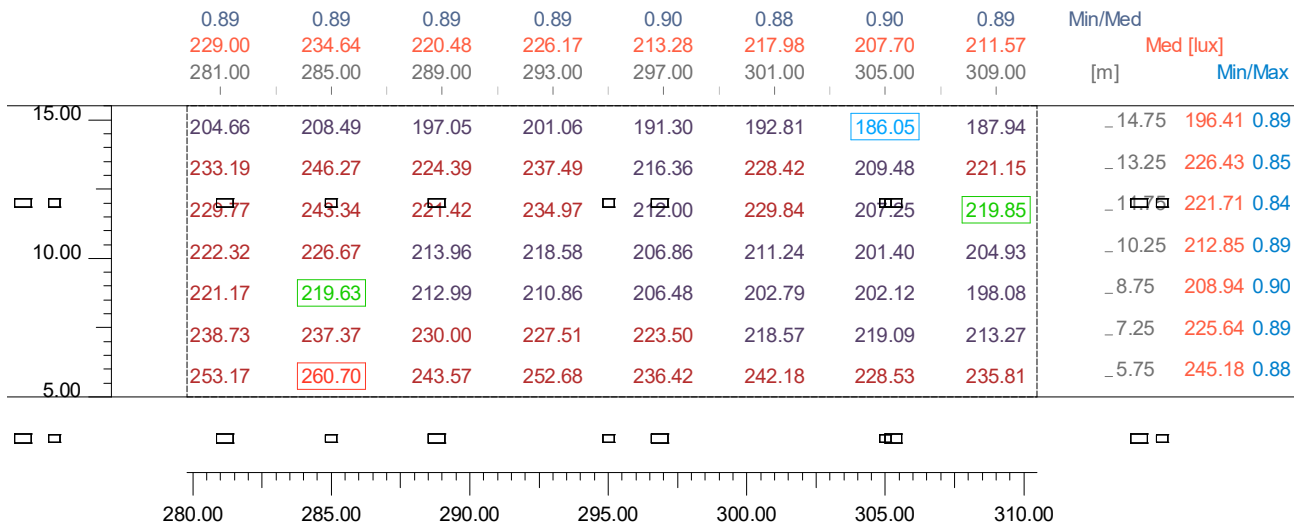


### 4.30 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (280-310m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	219.60 lx	186.05 lx	260.70 lx	0.85	0.71	0.84

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

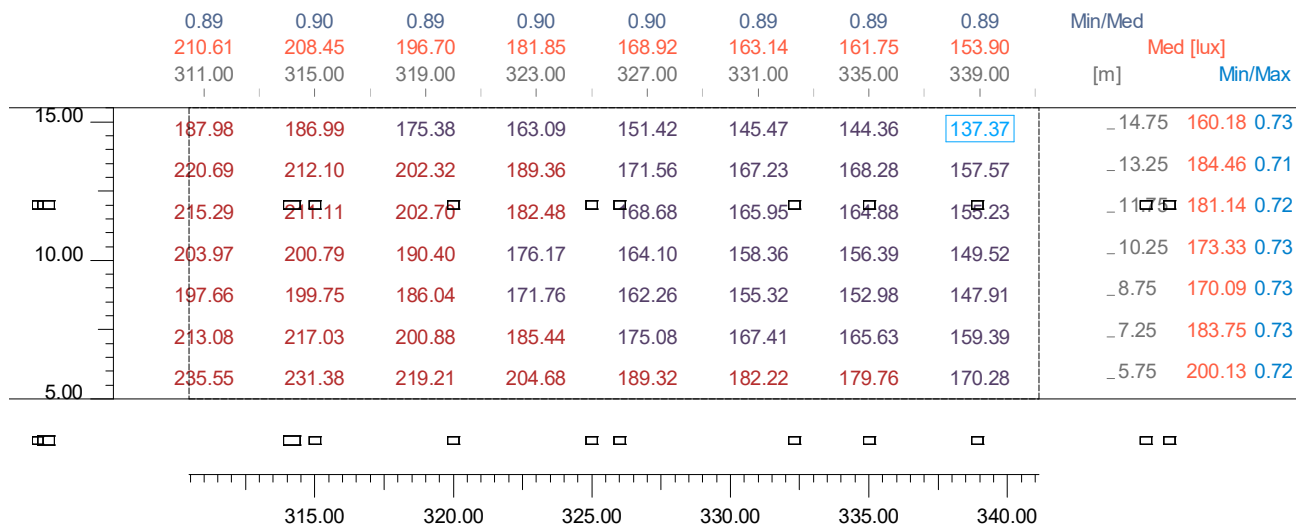


### 4.31 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (310-340m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	179.01 lx	137.37 lx	236.10 lx	0.77	0.58	0.76

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

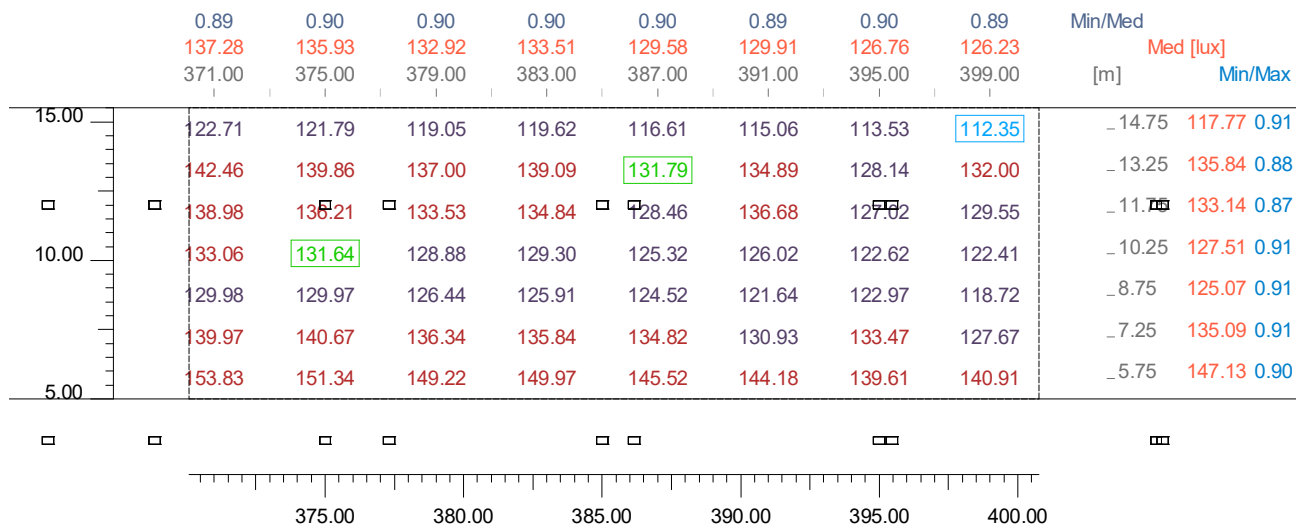


### 4.32 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (370-400m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	131.65 lx	112.35 lx	155.49 lx	0.85	0.72	0.85

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

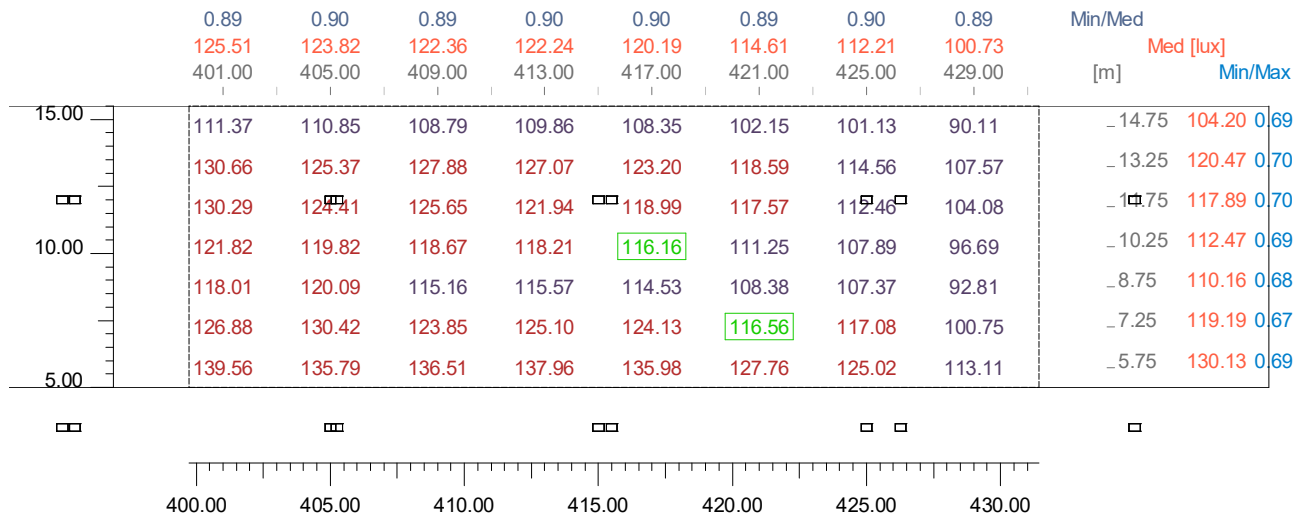


### 4.33 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (400-430m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	116.36 lx	78.00 lx	141.58 lx	0.67	0.55	0.82

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

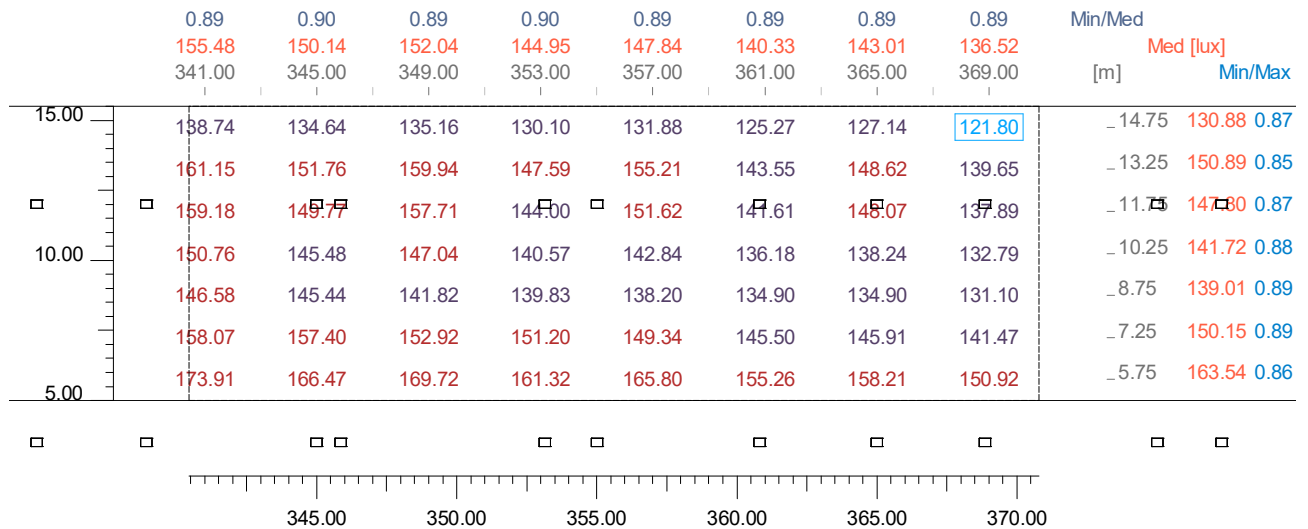


#### 4.34 Valori Illuminamento Orizzontale su: 3 - Carreggiata A [Lp,c (340-370m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	146.29 lx	121.80 lx	175.32 lx	0.83	0.69	0.83

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

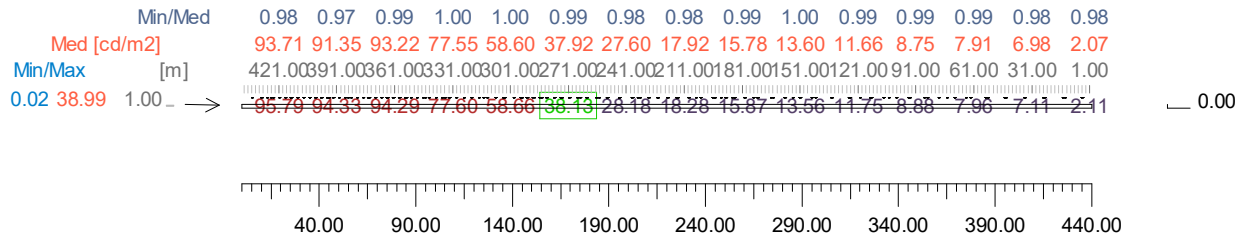


### 4.35 Valori Luminanza su: Parete Virtuale Destra - Oss. 1 (Lambert) [x=-86.00 y=3.50] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	38.43 cd/m <sup>2</sup>	2.04 cd/m <sup>2</sup>	96.50 cd/m <sup>2</sup>	0.05	0.02	0.40

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)



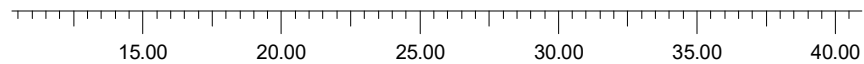
### 4.36 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (10-40m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	91.96 cd/m2	82.69 cd/m2	96.50 cd/m2	0.90	0.86	0.95

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

	1.00	0.97	0.98	0.99	0.98	0.97	0.99	0.98	
Min/Med	1.00	0.97	0.98	0.99	0.98	0.97	0.99	0.98	
Med [cd/m2]	82.99	89.74	93.71	94.04	91.96	92.85	94.69	92.84	
Min/Max [m]	429.00	425.00	421.00	417.00	413.00	409.00	405.00	401.00	
0.86 93.75 1.00	83.28	92.65	95.79	94.91	93.94	96.03	95.64	94.24	0.00



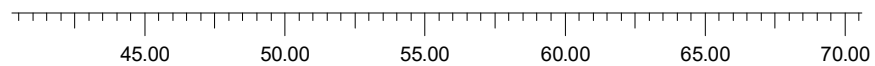
### 4.37 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (40-70m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	93.26 cd/m2	88.22 cd/m2	96.42 cd/m2	0.95	0.92	0.97

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

	Min/Med	0.99	0.99	0.97	0.98	0.99	0.98	0.96	0.99	
Med [cd/m2]		94.23	93.69	91.35	94.28	94.18	91.78	92.66	94.11	
Min/Max [m]		399.00	395.00	391.00	387.00	383.00	379.00	375.00	371.00	
0.97 95.14 1.00 →		95.62	94.71	94.33	96.42	94.95	93.55	95.93	95.30	0.00





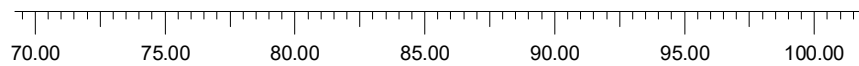
### 4.38 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (70-100m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	90.12 cd/m2	80.33 cd/m2	96.04 cd/m2	0.89	0.84	0.94

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

Min/Med	0.99	0.97	0.96	0.99	0.98	0.96	0.98	0.99		
Med [cd/m2]	93.10	91.25	93.63	93.32	89.26	87.96	86.72	83.82		
Min/Max [m]	367.00	363.00	359.00	355.00	351.00	347.00	343.00	339.00		
0.87 91.91 1.00 →	94.26	94.43	95.63	93.95	90.91	91.16	88.76	84.82		0.00



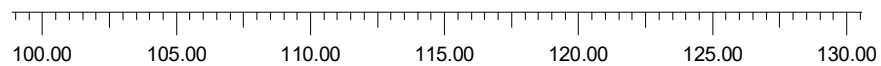
### 4.39 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (100-130m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	74.23 cd/m2	64.32 cd/m2	84.82 cd/m2	0.87	0.76	0.88

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

	0.99	1.00	1.00	1.00	1.00	0.99	0.99	0.98	
Med [cd/m2]	83.82	81.30	77.55	74.89	72.62	70.62	69.94	68.76	
Min/Max [m]	339.00	335.00	331.00	327.00	323.00	319.00	315.00	311.00	
0.78 75.61 1.00 →	84.82	81.35	77.60	75.01	72.94	71.06	70.41	70.02	0.00



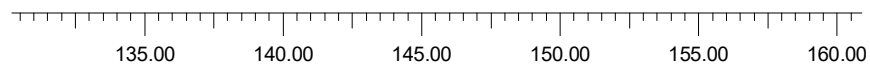
#### 4.40 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (130-160m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	54.21 cd/m2	44.18 cd/m2	68.97 cd/m2	0.81	0.64	0.79

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

	Min/Med	0.99	0.99	1.00	0.99	0.99	0.99	1.00	1.00		
Med [cd/m2]		64.91	63.75	58.60	55.71	51.18	48.12	46.54	44.62		
Min/Max [m]		309.00	305.00	301.00	297.00	293.00	289.00	285.00	281.00		
	0.65 54.54 1.00 →	65.52	64.47	58.66	56.13	51.56	48.57	46.63	44.66		0.00



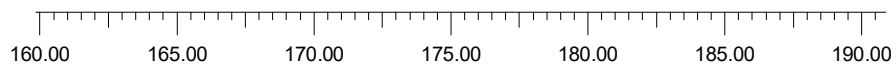
#### 4.41 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (160-190m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	35.66 cd/m2	28.66 cd/m2	43.79 cd/m2	0.80	0.65	0.81

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

Min/Med	0.99	0.99	0.99	0.99	1.00	0.98	1.00	0.98	
Med [cd/m2]	42.54	41.05	37.92	35.73	34.20	32.49	30.53	29.13	
Min/Max [m]	279.00	275.00	271.00	267.00	263.00	259.00	255.00	251.00	
0.67 35.69 1.00 →	42.89	41.40	38.13	35.33	34.31	33.00	30.60	28.66	0.00



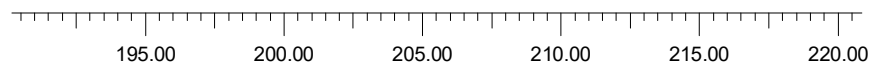
#### 4.42 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (190-220m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	24.47 cd/m2	19.33 cd/m2	29.05 cd/m2	0.79	0.67	0.84

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

	Min/Med	0.99	0.99	0.98	0.99	0.99	0.99	0.98	0.99	
Med [cd/m2]		28.37	28.73	27.60	26.98	23.21	20.67	20.33	19.49	
Min/Max [m]		249.00	245.00	241.00	237.00	233.00	229.00	225.00	221.00	
0.68 24.51 1.00 →		28.72	28.41	28.18	26.71	23.49	20.90	19.95	19.64	0.00



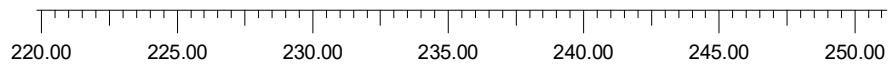
#### 4.43 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (220-250m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	18.88 cd/m2	17.40 cd/m2	21.82 cd/m2	0.92	0.80	0.87

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

	Min/Med	0.99	1.00	0.99	0.98	1.00	1.00	1.00	0.98	
Med [cd/m2]		19.38	18.28	17.74	17.67	17.54	19.31	21.30	20.17	
Min/Max [m]		217.00	213.00	209.00	205.00	201.00	197.00	193.00	189.00	
0.83 18.83 1.00 →		19.63	18.29	17.54	17.93	17.58	19.23	21.24	19.81	0.00



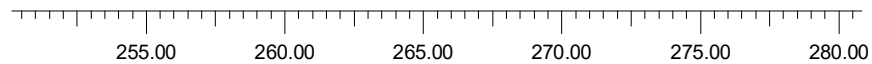
#### 4.44 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (250-280m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50 z=1.50]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	15.92 cd/m2	14.08 cd/m2	20.52 cd/m2	0.88	0.69	0.78

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

	Min/Med	0.98	1.00	0.99	1.00	1.00	0.99	0.99	0.98	
Med [cd/m2]		20.17	17.56	15.78	15.50	15.34	14.55	14.82	14.32	
Min/Max [m]		189.00	185.00	181.00	177.00	173.00	169.00	165.00	161.00	
	0.73 15.94 1.00 →	19.81	17.62	15.87	15.57	15.28	14.71	14.71	14.56	0.00



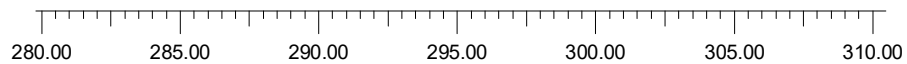
#### 4.45 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (280-310m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	13.25 cd/m2	11.83 cd/m2	14.23 cd/m2	0.89	0.83	0.93

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

Min/Med	Med [cd/m2]	Min/Max	[m]	1.00	0.99	1.00	0.99	0.99	0.98	0.99	0.98
14.22	13.91	13.60	13.15	13.45	12.37	13.32	12.06				
159.00	155.00	151.00	147.00	143.00	139.00	135.00	131.00				
0.87	13.28	1.00		14.21	13.99	13.56	13.29	13.31	12.61	13.14	12.30
											0.00





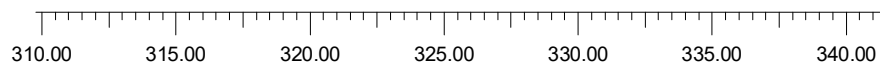
#### 4.46 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (310-340m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	10.79 cd/m2	9.01 cd/m2	13.58 cd/m2	0.83	0.66	0.79

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

Min/Med	0.99	1.00	0.99	1.00	0.99	1.00	1.00	0.99	
Med [cd/m2]	12.98	12.65	11.01	10.70	9.78	9.81	9.57	9.10	
Min/Max [m]	127.00	123.00	119.00	115.00	111.00	107.00	103.00	99.00	
0.70 10.81 1.00 →	12.86	12.62	11.11	10.66	9.90	9.79	9.57	9.20	0.00



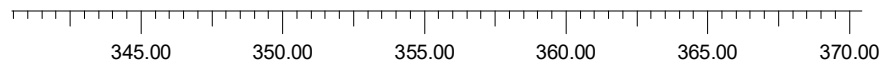
#### 4.47 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (340-370m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	8.82 cd/m <sup>2</sup>	8.30 cd/m <sup>2</sup>	9.58 cd/m <sup>2</sup>	0.94	0.87	0.92

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

Min/Med	0.99	1.00	0.99	1.00	0.99	0.99	0.99	0.99	0.99	0.99	1.00	1.00	1.00	1.00	1.00
Med [cd/m <sup>2</sup> ]	9.10	9.28	9.49	9.18	8.75	8.72	9.03	9.04	8.71	8.47	8.52	8.56	8.63	8.49	8.31
Min/Max [m]	99.00	97.00	95.00	93.00	91.00	89.00	87.00	85.00	83.00	81.00	79.00	77.00	75.00	73.00	71.00
0.88 8.84 1.00 →	9.20	9.32	9.39	9.14	8.88	8.81	8.97	8.98	8.77	8.54	8.53	8.56	8.64	8.47	8.31



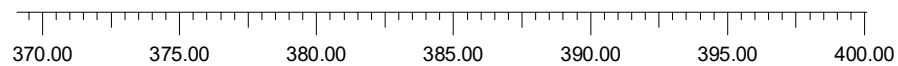
#### 4.48 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (370-400m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50 z=0.00]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	7.93 cd/m2	7.09 cd/m2	8.48 cd/m2	0.89	0.84	0.93

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

Min/Med	0.99	0.99	0.99	0.99	0.99	0.98	0.99	0.99	0.99	0.99	0.98	1.00	0.98	0.99	0.98
Med [cd/m2]	8.06	8.15	8.43	8.38	7.91	7.65	7.93	8.33	8.12	7.53	7.35	7.79	8.21	7.83	7.22
Min/Max [m]	69.00	67.00	65.00	63.00	61.00	59.00	57.00	55.00	53.00	51.00	49.00	47.00	45.00	43.00	41.00
0.88 7.94 1.00	8.14	8.22	8.38	8.30	7.96	7.80	7.97	8.21	8.04	7.64	7.51	7.79	8.07	7.78	7.35



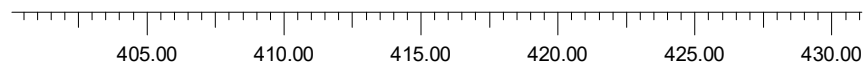
#### 4.49 Valori Luminanza su: Parete Virtuale Destra [Lp,pd (400-430m)] - Oss. 1 (Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Luminanza	7.04 cd/m <sup>2</sup>	4.94 cd/m <sup>2</sup>	8.21 cd/m <sup>2</sup>	0.70	0.60	0.86

Osservatore  
Tipo Calcolo

(Lambert) [x=-86.00 y=3.50 z=1.50] m => [x=4.00 y=3.50 z=0.00] m  
Dir.+Indir. (Accuratezza:2)

Min/Med	0.98	1.00	0.98	0.99	0.98	0.98	1.00	0.98	0.99	0.98	0.98	1.00	0.98	0.98	1.00	0.98	-
Med [cd/m <sup>2</sup> ]	7.11	7.63	8.06	7.62	6.98	6.86	7.40	7.88	7.49	6.78	6.51	6.93	7.38	7.00	5.99	5.03	-
Min/Max [m]	39.00	37.00	35.00	33.00	31.00	29.00	27.00	25.00	23.00	21.00	19.00	17.00	15.00	13.00	11.00	9.00	-
0.65 7.04 1.00 →	7.27	7.61	7.92	7.57	7.11	7.01	7.39	7.73	7.42	6.90	6.66	6.94	7.21	6.86	6.01	5.11	0.00



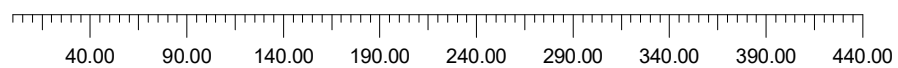
#### 4.50 Valori Illuminamento Orizzontale su: Parete Virtuale Destra

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	344.93 lx	18.34 lx	866.18 lx	0.05	0.02	0.40

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

Min/Med	0.97	0.96	0.99	0.96	0.99	0.98	0.99	0.99	0.99	0.99	1.00	1.00	0.98	
Med [lux]	559.26	822.72	836.73	650.27	431.97	266.62	173.94	141.63	121.03	86.62	76.19	68.45	18.62	
Min/Max	433.00	397.00	361.00	325.00	289.00	253.00	217.00	181.00	145.00	109.00	73.00	37.00	1.00	
0.02 349.98	1.00													0.00
	574.90	853.65	846.32	674.69	435.95	271.31	176.22	142.42	120.43	87.28	76.07	68.27	18.91	



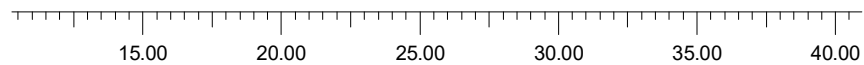
#### 4.51 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (10-40m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	825.44 lx	742.25 lx	866.18 lx	0.90	0.86	0.95

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	Min/Med	1.00	0.97	0.98	0.99	0.98	0.97	0.99	0.98		
Med [lux]		744.90	805.52	841.18	844.08	825.48	833.38	849.97	833.29		
Min/Max	[m]	429.00	425.00	421.00	417.00	413.00	409.00	405.00	401.00		
0.86	841.47	1.00	747.55	831.60	859.78	851.95	843.20	861.96	858.46	845.91	0.00



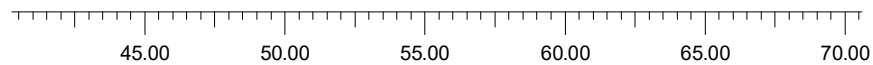
#### 4.52 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (40-70m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	837.10 lx	791.88 lx	865.42 lx	0.95	0.92	0.97

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	Min/Med	0.99	0.99	0.97	0.98	0.99	0.98	0.96	0.99	
Med [lux]		845.84	840.94	819.98	846.25	845.36	823.81	831.68	844.69	
Min/Max [m]		399.00	395.00	391.00	387.00	383.00	379.00	375.00	371.00	
0.97	853.99	1.00	858.26	850.07	846.75	865.42	852.30	839.69	861.08	855.42
										0.00

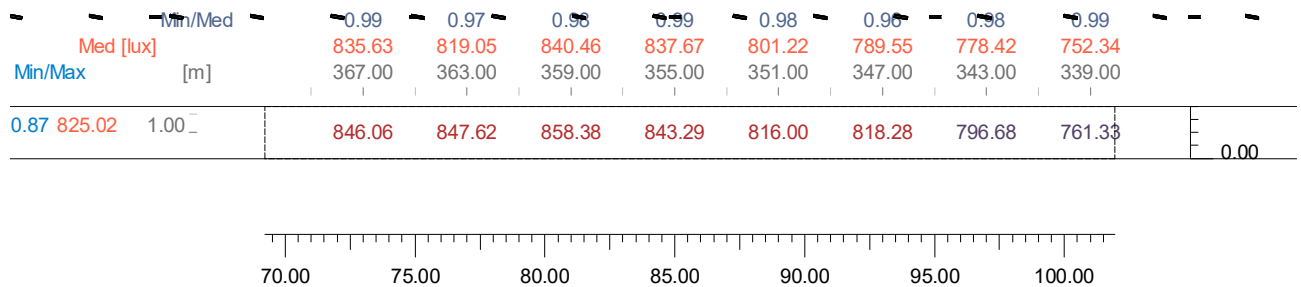


#### 4.53 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (70-100m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	808.95 lx	721.07 lx	862.04 lx	0.89	0.84	0.94

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)





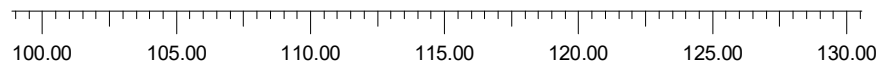
#### 4.54 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (100-130m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	666.33 lx	577.34 lx	761.33 lx	0.87	0.76	0.88

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	0.99	1.00	1.00	1.00	1.00	0.99	0.99	0.98	
Min/Med									
Med [lux]	752.34	729.71	696.08	672.23	651.84	633.88	627.81	617.21	
Min/Max [m]	339.00	335.00	331.00	327.00	323.00	319.00	315.00	311.00	
0.78 678.67 1.00	761.33	730.22	696.50	673.32	654.66	637.79	631.97	628.48	0.00



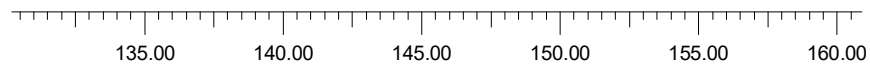
#### 4.55 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (130-160m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	486.61 lx	396.54 lx	619.12 lx	0.81	0.64	0.79

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	Min/Med	0.99	0.99	1.00	0.99	0.99	0.99	1.00	1.00	
Med [lux]		582.63	572.25	525.97	500.05	459.43	431.97	417.78	400.49	
Min/Max [m]		309.00	305.00	301.00	297.00	293.00	289.00	285.00	281.00	
0.65 489.58 1.00		588.13	578.71	526.54	503.84	462.81	435.95	418.58	400.91	0.00



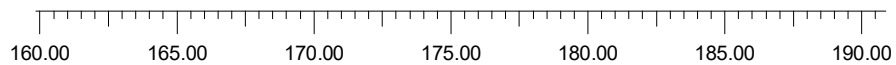
#### 4.56 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (160-190m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	320.11 lx	257.28 lx	393.09 lx	0.80	0.65	0.81

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	Min/Med	0.99	0.99	0.99	0.99	1.00	0.98	1.00	0.98	
Med [lux]		381.83	368.51	340.36	320.68	307.01	291.62	274.05	261.43	
Min/Max [m]		279.00	275.00	271.00	267.00	263.00	259.00	255.00	251.00	
0.67 320.31 1.00		385.01	371.59	342.27	317.16	307.99	296.20	274.65	257.28	0.00



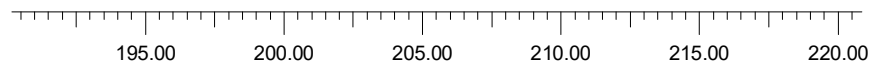
#### 4.57 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (190-220m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	219.66 lx	173.53 lx	260.72 lx	0.79	0.67	0.84

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	Min/Med	0.99	0.99	0.98	0.99	0.99	0.99	0.98	0.99	
Med [lux]		254.69	257.85	247.78	242.21	208.37	185.53	182.51	174.92	
Min/Max [m]		249.00	245.00	241.00	237.00	233.00	229.00	225.00	221.00	
0.68 220.03 1.00		257.76	254.98	252.95	239.70	210.85	187.60	179.09	176.31	0.00



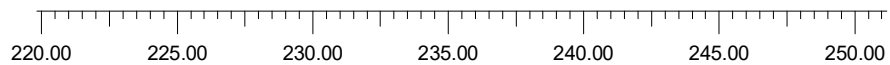
#### 4.58 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (220-250m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	169.46 lx	156.16 lx	195.86 lx	0.92	0.80	0.87

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	Min/Med	0.99	1.00	0.99	0.98	1.00	1.00	1.00	0.98	
Med [lux]		173.94	164.10	159.27	158.56	157.46	173.37	191.17	181.01	
Min/Max [m]		217.00	213.00	209.00	205.00	201.00	197.00	193.00	189.00	
0.83 169.03 1.00		176.22	164.21	157.44	160.96	157.81	172.62	190.68	177.85	0.00



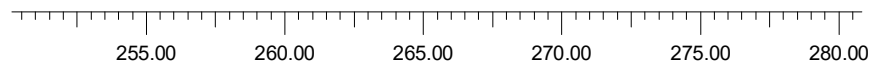
#### 4.59 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (250-280m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	142.93 lx	126.36 lx	184.18 lx	0.88	0.69	0.78

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	Min/Med	0.98	1.00	0.99	1.00	1.00	0.99	0.99	0.98	
Med [lux]		181.01	157.66	141.63	139.09	137.73	130.57	133.06	128.54	
Min/Max [m]		189.00	185.00	181.00	177.00	173.00	169.00	165.00	161.00	
0.73 143.08 1.00		177.85	158.15	142.42	139.71	137.14	132.05	132.02	130.73	0.00



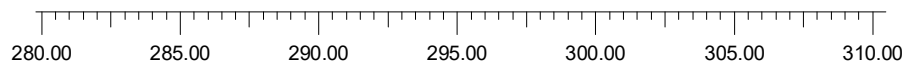
#### 4.60 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (280-310m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	118.93 lx	106.15 lx	127.76 lx	0.89	0.83	0.93

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	Min/Med	1.00	0.99	1.00	0.99	0.99	0.98	0.99	0.98	
Med [lux]		127.66	124.88	122.04	118.05	120.72	111.05	119.59	108.25	
Min/Max [m]		159.00	155.00	151.00	147.00	143.00	139.00	135.00	131.00	
0.87 119.20 1.00		127.57	125.59	121.69	119.33	119.49	113.19	117.92	110.36	0.00



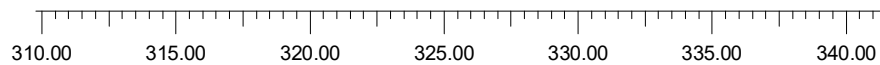
#### 4.61 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (310-340m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	96.86 lx	80.83 lx	121.85 lx	0.83	0.66	0.79

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

Min/Med	0.99	1.00	0.99	1.00	0.99	1.00	1.00	0.99	
Med [lux]	116.55	113.59	98.86	96.03	87.74	88.08	85.88	81.69	
Min/Max [m]	127.00	123.00	119.00	115.00	111.00	107.00	103.00	99.00	
0.70 97.04 1.00	115.45	113.26	99.77	95.70	88.88	87.86	85.94	82.55	0.00





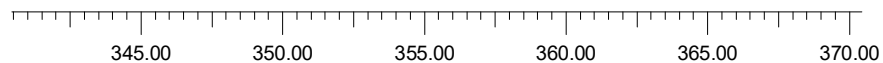
#### 4.62 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (340-370m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	79.15 lx	74.54 lx	86.02 lx	0.94	0.87	0.92

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

	Min/Med	0.99	0.99	0.99	0.99	0.99	1.00	1.00	1.00	
Med [lux]	81.69	85.17	78.56	81.09	78.17	76.47	77.44	74.58		
Min/Max [m]	99.00	95.00	91.00	87.00	83.00	79.00	75.00	71.00		
0.88 79.30 1.00	82.55	84.32	79.72	80.55	78.71	76.58	77.55	74.62		0.00



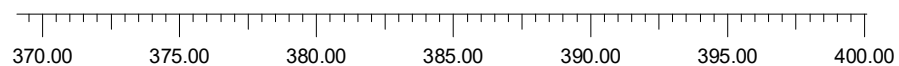
#### 4.63 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (370-400m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	71.15 lx	63.60 lx	76.14 lx	0.89	0.84	0.93

Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

Min/Med	0.99	0.99	0.99	0.99	0.99	0.98	0.98	0.98	0.98
Med [lux]	72.36	75.68	71.00	71.16	72.85	65.99	73.74	64.80	
Min/Max [m]	69.00	65.00	61.00	57.00	53.00	49.00	45.00	41.00	
0.88 71.31 1.00	73.06	75.21	71.46	71.55	72.18	67.42	72.48	66.00	0.00

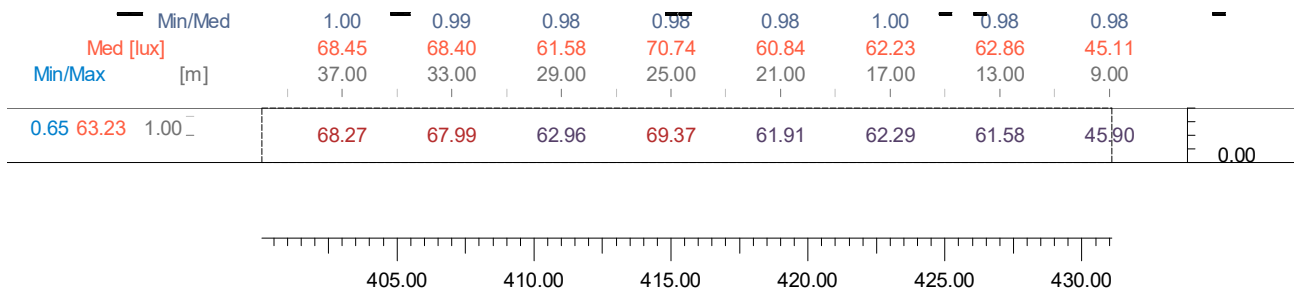


#### 4.64 Valori Illuminamento Orizzontale su: Parete Virtuale Destra [Lp,pd (400-430m)]

Risultati	Medio	Minimo	Massimo	Min/Medio	Min/Max	Medio/Max
Illuminamento Orizzontale	63.19 lx	44.33 lx	73.72 lx	0.70	0.60	0.86

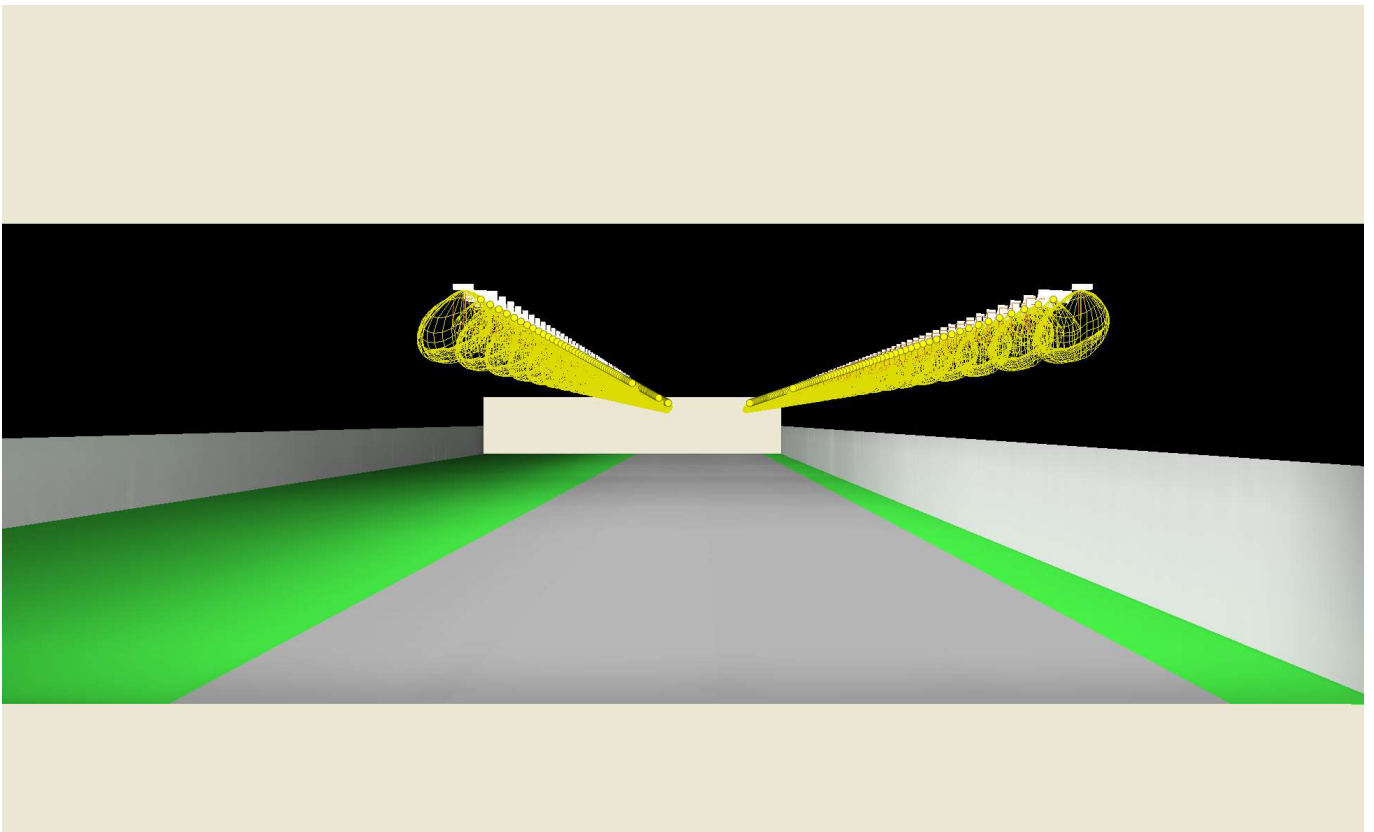
Tipo Calcolo

Dir.+Indir. (Accuratezza:2)

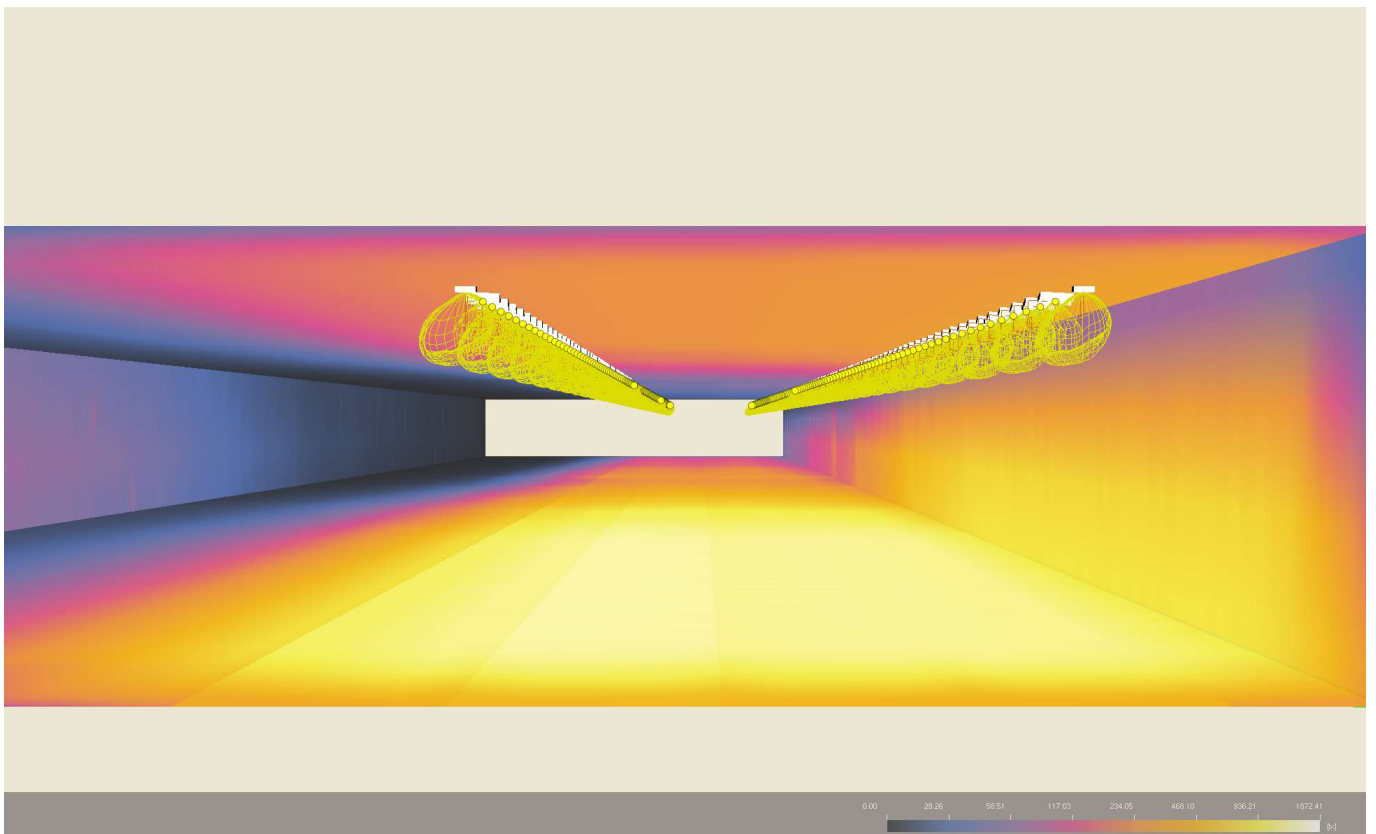


## 5. Immagini

### 5.1 Immagini



## 5.2 Immagini



# Sommario

## Informazioni Generali

1

### 1 Dati Riepilogativi Progetto e Risultati

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