Superrail

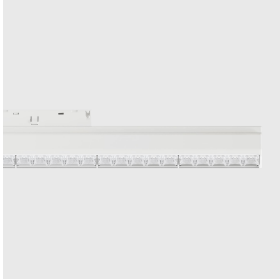**Design iGuzzini**   **iGuzzini**

Last information update: March 2025

Product configuration: PG93.G0

PG93.G0: Module for Superrail 48V track - DALI - UGR<19 - L=1368 - Continuous line - 11W 1334.5lm - 2700K - CRI 90 - White/White Transparent

Product code

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Technical description

Linear lighting product with 2700K CRI90 monochrome LED complete with adapter for installation on a Superrail 48V track. UGR<19 luminaire with controlled luminance (L≤3000cd/m²) ideal for environments with video screen use. Opti-Diamond Space optic available in a White Cover (Transparent white) or Black Cover (Transparent black) version. The adapter made of a thermoplastic material includes the DC/DC driver circuit with a DALI dimmable function. Integrated «power line» technology allows each light module on the track to be adjusted separately. Frameless version main body made of extruded aluminium. A rapid tool-free system for connecting the adapter electrically and mechanically to the track. Module for continuous line not including caps (to be ordered as an accessory)

Installation

Mechanical fastening with adapter on a Superrail 48V track. Close the continuous line with a pair of caps to be ordered separately.

Colour	Weight (Kg)
White/White Transparent (G0)	0.75

Mounting
Low voltage track

Wiring
Integrated DC/DC LED driver in adapter - direct connection on 48V track. Track power supply unit to be ordered separately.

Complies with EN60598-1 and pertinent regulations

Technical data

lm system:	1335	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	11	Voltage [Vin]:	48
lm source:	1570	Lamp code:	LED
W source:	9.5	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	121.3	ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	26	LED current [mA]:	39
Light Output Ratio (L.O.R.) [%]:	85	Power factor:	See installation instructions
		Minimum dimming %:	5
CRI (minimum):	90	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	2700		
MacAdam Step:	3	Control:	DALI

Polar

Imax=1296 cd C85-265

CIE
nL 0.85
89-96-99-98-85
UGR 15.8-15.0
DIN
A.61
UTE
0.83A+0.02T
F"1=893
F"1+F"2=964
F"1+F"2+F"3=989

α=61°

Lux				
h	d1	d2	Em	Emax
1	1.2	1.2	1004	1267
2	2.3	2.3	251	317
3	3.5	3.5	112	141
4	4.7	4.6	63	79

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	67	63	61	66	63	62	59	70
1.0	76	71	68	65	70	67	67	63	76
1.5	81	77	74	72	76	73	72	69	83
2.0	84	81	79	77	80	78	77	73	88
2.5	86	84	82	80	82	80	79	76	91
3.0	87	85	84	83	84	82	81	78	94
4.0	88	87	86	85	85	84	83	80	96
5.0	89	88	87	87	86	85	84	81	97

Luminance curve limit

QC	A	G	1.15	2000	1000	500		<=300		
	B		1.50		2000	1000	750	500	<=300	
	C		1.85			2000		1000	500	<=300

C0-180
C90-270
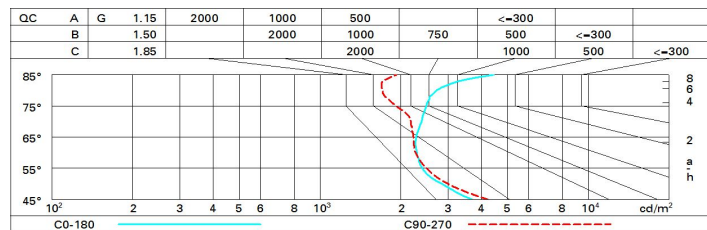
UGR diagram

Corrected UGR values (at 1570 lm bare lamp luminous flux)

Riflect.: ceil/cav		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim x	y			viewed crosswise					viewed endwise		
2H	2H	14.0	14.7	14.3	14.9	15.2	14.3	14.9	14.6	15.2	15.5
	3H	14.5	15.0	14.8	15.3	15.7	14.3	14.9	14.6	15.2	15.5
	4H	14.7	15.3	15.1	15.6	16.0	14.3	14.8	14.6	15.1	15.5
	6H	15.1	15.6	15.5	15.9	16.3	14.2	14.7	14.6	15.1	15.4
	8H	15.3	15.8	15.7	16.1	16.5	14.2	14.7	14.6	15.0	15.4
	12H	15.5	16.0	15.9	16.4	16.8	14.2	14.6	14.6	15.0	15.4
4H	2H	14.0	14.5	14.4	14.9	15.2	14.8	15.3	15.1	15.6	16.0
	3H	14.6	15.1	15.0	15.4	15.8	14.9	15.4	15.3	15.7	16.1
	4H	15.0	15.4	15.4	15.8	16.3	15.0	15.4	15.4	15.8	16.2
	6H	15.5	15.9	16.0	16.3	16.8	15.0	15.4	15.5	15.8	16.3
	8H	15.8	16.1	16.3	16.6	17.1	15.0	15.4	15.5	15.8	16.3
	12H	16.2	16.5	16.7	17.0	17.5	15.0	15.4	15.5	15.8	16.3
8H	4H	15.1	15.4	15.6	15.9	16.4	15.3	15.6	15.7	16.0	16.5
	6H	15.8	16.0	16.3	16.5	17.0	15.4	15.7	15.9	16.2	16.7
	8H	16.2	16.4	16.7	16.9	17.4	15.5	15.8	16.0	16.3	16.8
	12H	16.8	17.0	17.3	17.5	18.0	15.6	15.8	16.2	16.4	16.9
12H	4H	15.1	15.4	15.6	15.8	16.3	15.3	15.6	15.8	16.1	16.6
	6H	15.8	16.0	16.3	16.5	17.1	15.6	15.8	16.1	16.3	16.8
	8H	16.3	16.5	16.8	17.0	17.6	15.7	15.9	16.3	16.4	17.0

Variations with the observer position at spacing:

S =	1.0H	1.8 / -1.1	2.3 / -1.7
	1.5H	3.5 / -1.3	4.4 / -2.0
	2.0H	5.1 / -1.4	6.1 / -2.1