

Last information update: March 2025

**Product configuration: PG99.G1**

PG99.G1: Module for Superrail 48V track - DALI - UGR&lt;19 - L=1824 - Continuous line - 13.8W 1819lm - 3500K - CRI 90 - Black/Black Transparent

**Product code**

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**Technical description**

Linear lighting product with 3500K CRI90 monochrome LED complete with adapter for installation on a Superrail 48V track. UGR<19 luminaire with controlled luminance ( $L \leq 3000 \text{ cd/m}^2$ ) 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 separately)

**Installation**

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

**Colour**

Black/Black Transparent (G1)

**Weight (Kg)**

1.03

**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**

Im system:	1648	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	13.8	Voltage [Vin]:	48
Im source:	2140	Lamp code:	LED
W source:	12	Number of lamps for optical assembly:	1
Luminous efficiency (Im/W, real value):	119.4	ZVEI Code:	LED
Im in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	31	LED current [mA]:	36
Light Output Ratio (L.O.R.) [%]:	77	Power factor:	See installation instructions
CRI (minimum):	90	Minimum dimming %:	5
Colour temperature [K]:	3500	Overvoltage protection:	2kV Common mode & 1kV Differential mode
MacAdam Step:	3	Control:	DALI

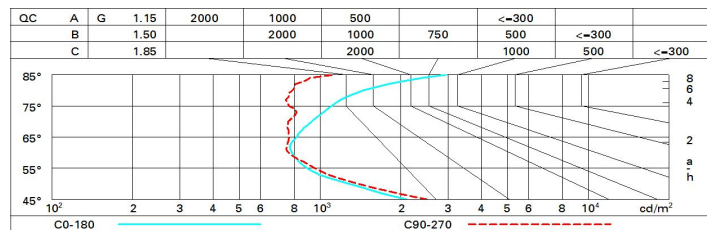
**Polar**

	<b>CIE</b> nL 0.77 94-99-99-98-77 UGR 13.3-12.7 <b>DIN</b> A.61 <b>UTE</b> 0.76A+0.01T F*1=940 F*1+F*2=985 F*1+F*2+F*3=994 <b>CIBSE</b> LG3 L<3000 cd/m² at 65° UGR<16   L<3000 cd/mq @65°				
	h	d1	d2	Em	E <sub>max</sub>
	2	2.3	2.3	333	423
	4	4.6	4.6	83	106
	6	6.9	6.9	37	47
	8	9.2	9.2	21	26

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	67	63	60	58	62	59	59	56	74
1.0	70	66	64	62	65	63	63	60	79
1.5	74	71	69	67	70	68	67	65	86
2.0	77	75	73	72	73	72	71	68	90
2.5	78	77	75	74	75	74	73	71	93
3.0	80	78	77	76	77	76	75	72	96
4.0	81	80	79	78	78	77	76	74	97
5.0	81	80	80	79	79	78	77	74	99

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 2140 lm bare lamp luminous flux)										
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise			
2H	2H	13.1	13.7	13.4	13.9	14.2	13.0	13.6	13.3	13.9
	3H	13.0	13.6	13.4	13.9	14.2	12.9	13.4	13.2	13.7
	4H	13.0	13.5	13.4	13.9	14.2	12.8	13.3	13.2	13.6
	6H	13.1	13.6	13.5	13.9	14.3	12.7	13.2	13.1	13.5
	8H	13.2	13.7	13.6	14.0	14.4	12.7	13.2	13.1	13.5
	12H	13.4	13.8	13.8	14.2	14.6	12.7	13.1	13.1	13.5
4H	2H	12.9	13.4	13.2	13.7	14.0	12.9	13.4	13.3	13.8
	3H	12.9	13.3	13.3	13.7	14.0	12.8	13.3	13.2	13.6
	4H	12.9	13.3	13.3	13.7	14.1	12.8	13.1	13.2	13.5
	6H	13.1	13.4	13.6	13.9	14.3	12.7	13.1	13.2	13.5
	8H	13.3	13.6	13.7	14.0	14.5	12.7	13.0	13.2	13.5
	12H	13.6	13.8	14.0	14.3	14.8	12.7	13.0	13.2	13.4
8H	4H	12.8	13.1	13.3	13.6	14.1	12.8	13.1	13.3	13.6
	6H	13.1	13.4	13.6	13.8	14.4	12.8	13.1	13.3	13.5
	8H	13.4	13.6	13.9	14.1	14.6	12.8	13.0	13.4	13.5
	12H	13.9	14.0	14.4	14.6	15.1	12.9	13.1	13.4	13.6
12H	4H	12.8	13.1	13.3	13.5	14.0	12.8	13.1	13.3	13.6
	6H	13.1	13.3	13.6	13.8	14.4	12.9	13.1	13.4	13.6
	8H	13.4	13.6	14.0	14.1	14.7	12.9	13.1	13.5	13.6
Variations with the observer position at spacing:										
S =	1.0H	3.4 / -3.0					4.0 / -4.7			
	1.5H	5.8 / -3.2					6.6 / -5.0			
	2.0H	7.7 / -3.4					8.6 / -5.1			