Superrail

Last information update: March 2025

Product configuration: RZ71.G1
RZ71.G1: Module for Superrail 48V track - DALI - UGR<19 - L=916 - - 7.5W 892.5lm - 2700K - CRI 90 - Black/Black Transparent

Product code
RZ71.G1: Module for Superrail 48V track - DALI - UGR<19 - L=916 - - 7.5W 892.5lm - 2700K - CRI 90 - Black/Black Transparent

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.

Installation
Mechanical fastening with adapter on a Superrail 48V track

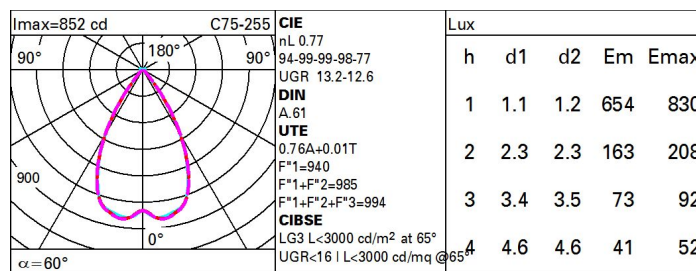| Colour	Weight (Kg)
Black/Black Transparent (G1)	0.52

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

III IP20 CE UKCA [S] QCERT
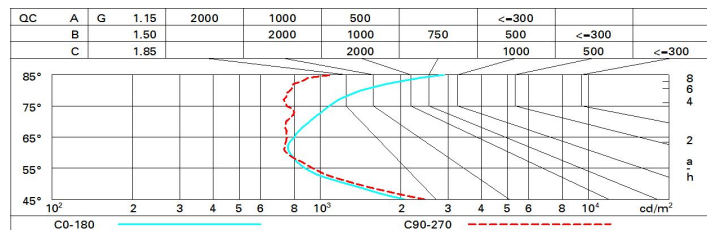
Technical data

lm system:	809	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	7.5	Voltage [Vin]:	48
lm source:	1050	Lamp code:	LED
W source:	6.3	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	107.8	ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	15	LED current [mA]:	39
Light Output Ratio (L.O.R.) [%]:	77	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=852 cd   C75-255

90°   180°   90°

α=60°

CIE
nL 0.77
94-99-99-98-77
UGR 13.2-12.6
DIN
A.61
UTE
0.76A+0.01T
F"1=940
F"1+F"2=985
F"1+F"2+F"3=994
CIBSE
LG3 L<3000 cd/m² at 65°
UGR<16 | L<3000 cd/mq @65°

h	d1	d2	Em	Emax
1	1.1	1.2	654	830
2	2.3	2.3	163	208
3	3.4	3.5	73	92
4	4.6	4.6	41	52

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

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 1050 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		viewed crosswise					viewed endwise				
x	y										
2H	2H	13.0	13.6	13.3	13.9	14.1	12.9	13.5	13.2	13.8	14.1
	3H	13.0	13.5	13.3	13.8	14.1	12.8	13.3	13.2	13.6	14.0
	4H	13.0	13.5	13.3	13.8	14.1	12.8	13.2	13.1	13.6	13.9
	6H	13.1	13.5	13.4	13.9	14.2	12.7	13.1	13.1	13.5	13.8
	8H	13.2	13.6	13.5	14.0	14.3	12.6	13.1	13.0	13.4	13.8
	12H	13.3	13.7	13.7	14.1	14.5	12.6	13.0	13.0	13.4	13.8
4H	2H	12.8	13.3	13.2	13.6	14.0	12.9	13.4	13.2	13.7	14.0
	3H	12.8	13.2	13.2	13.6	14.0	12.8	13.2	13.2	13.6	14.0
	4H	12.9	13.2	13.3	13.6	14.0	12.7	13.1	13.1	13.5	13.9
	6H	13.0	13.4	13.5	13.8	14.2	12.7	13.0	13.1	13.4	13.9
	8H	13.2	13.5	13.7	13.9	14.4	12.6	12.9	13.1	13.4	13.9
	12H	13.5	13.8	14.0	14.2	14.7	12.6	12.9	13.1	13.3	13.8
8H	4H	12.8	13.1	13.3	13.5	14.0	12.7	13.0	13.2	13.5	14.0
	6H	13.1	13.3	13.6	13.8	14.3	12.8	13.0	13.3	13.5	14.0
	8H	13.3	13.5	13.8	14.0	14.6	12.8	13.0	13.3	13.5	14.0
	12H	13.8	14.0	14.3	14.5	15.1	12.8	13.0	13.3	13.5	14.1
12H	4H	12.7	13.0	13.2	13.5	14.0	12.8	13.1	13.3	13.5	14.0
	6H	13.0	13.3	13.6	13.8	14.3	12.8	13.0	13.3	13.5	14.1
	8H	13.4	13.5	13.9	14.1	14.6	12.9	13.1	13.4	13.6	14.1

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