

Last information update: March 2025

**Product configuration: RZ81.G0**

RZ81.G0: Module for Superrail 48V track - DALI - UGR&lt;19 - L=1828 - - 13.8W 1819lm - 3500K - CRI 90 - White/White 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.

**Installation**

Mechanical fastening with adapter on a Superrail 48V track

**Colour**

White/White Transparent (G0)

**Weight (Kg)**

1.03

**Mounting**

Low voltage track

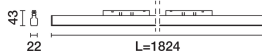
**Wiring**

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



IP20

**Technical data**

lm system:	1819	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	13.8	Voltage [Vin]:	48
lm source:	2140	Lamp code:	LED
W source:	12	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	131.8	ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	35	LED current [mA]:	36
Light Output Ratio (L.O.R.) [%]:	85	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**

<p>Imax=1766 cd C85-265 nL 0.85 89-96-99-98-85 UGR 15.9-15.1 DIN A.61 UTE 0.83A+0.02T F*1=893 F*1+F*2=964 F*1+F*2+F*3=989 <math>\alpha = 61^\circ</math></p>	Lux				
	h	d1	d2	Em	Emax
	2	2.3	2.3	342	432
	4	4.7	4.6	85	108
	6	7	6.9	38	48
	8	9.3	9.2	21	27

# 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



# UGR diagram

Corrected UGR values (at 2140 lm bare lamp luminous flux)											
Riflect.: ceil/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	14.1	14.7	14.4	15.0	15.3	14.4	15.0	14.7	15.3	15.6
	3H	14.5	15.1	14.9	15.4	15.7	14.4	14.9	14.7	15.2	15.6
	4H	14.8	15.4	15.2	15.7	16.0	14.3	14.9	14.7	15.2	15.5
	6H	15.1	15.7	15.5	16.0	16.4	14.3	14.8	14.7	15.1	15.5
	8H	15.3	15.8	15.7	16.2	16.6	14.3	14.8	14.7	15.1	15.5
	12H	15.6	16.1	16.0	16.4	16.8	14.2	14.7	14.6	15.1	15.5
4H	2H	14.1	14.6	14.4	14.9	15.3	14.8	15.4	15.2	15.7	16.1
	3H	14.7	15.1	15.1	15.5	15.9	15.0	15.4	15.4	15.8	16.2
	4H	15.1	15.5	15.5	15.9	16.3	15.0	15.5	15.5	15.9	16.3
	6H	15.6	15.9	16.0	16.4	16.8	15.1	15.5	15.6	15.9	16.4
	8H	15.9	16.2	16.4	16.7	17.1	15.1	15.5	15.6	15.9	16.4
	12H	16.3	16.6	16.8	17.0	17.5	15.1	15.4	15.6	15.9	16.4
8H	4H	15.2	15.5	15.6	16.0	16.4	15.3	15.7	15.8	16.1	16.6
	6H	15.8	16.1	16.3	16.6	17.1	15.5	15.8	16.0	16.3	16.8
	8H	16.2	16.5	16.8	17.0	17.5	15.6	15.8	16.1	16.3	16.9
	12H	16.8	17.0	17.4	17.6	18.1	15.7	15.9	16.3	16.4	17.0
12H	4H	15.2	15.5	15.6	15.9	16.4	15.4	15.7	15.9	16.2	16.7
	6H	15.9	16.1	16.4	16.6	17.1	15.6	15.9	16.2	16.4	16.9
	8H	16.3	16.6	16.9	17.1	17.6	15.8	16.0	16.3	16.5	17.1
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				