

Last information update: March 2025

**Product configuration: RZ81.M6**

RZ81.M6: Module for Superrail 48V track - DALI - UGR&lt;19 - L=1828 - - 13.8W 1819lm - 3500K - CRI 90 - White/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.

**Installation**

Mechanical fastening with adapter on a Superrail 48V track

**Colour**

White/Black Transparent (M6)

**Weight (Kg)**

1.03

**Mounting**

Low voltage track

**Wiring**

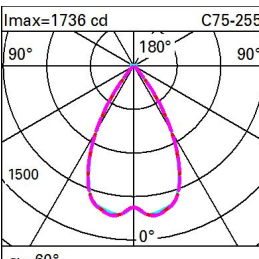
Integrated DC/DC LED driver in adapter - direct connection on 48V track. Track power supply unit to be ordered separately.

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	1648	MacAdam Step:	3
W system:	12	Lamp code:	LED
lm source:	2140	Number of lamps for optical assembly:	1
W source:	12	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	137.3	Number of optical assemblies:	1
lm in emergency mode:	-	LED current [mA]:	36
Total light flux at or above an angle of 90° [Lm]:	31	Power factor:	See installation instructions
Light Output Ratio (L.O.R.) [%]:	77	Minimum dimming %:	5
CRI (minimum):	90	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	3500	Control:	DALI

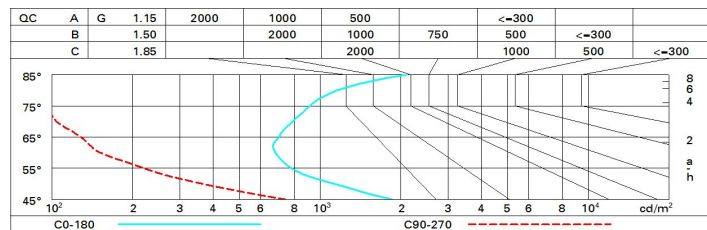
**Polar**

 <p>Imax=1736 cd C75-255 90° 180° 90° 1500 α=60°</p>	<b>CIE</b> nL 0.77 94-99-99-98-77 UGR 11.2<10 <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°		<b>Lux</b>				
	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		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	11.3	12.0	11.6	12.3	12.5	9.6	10.3	9.9	10.6	10.9
	3H	11.2	11.9	11.6	12.2	12.5	9.5	10.1	9.8	10.4	10.7
	4H	11.2	11.8	11.6	12.1	12.5	9.4	10.0	9.8	10.3	10.7
	6H	11.3	11.8	11.7	12.2	12.5	9.3	9.9	9.7	10.2	10.6
	8H	11.4	11.9	11.8	12.2	12.6	9.3	9.8	9.7	10.2	10.6
	12H	11.5	12.0	11.9	12.3	12.7	9.3	9.8	9.7	10.1	10.5
4H	2H	11.1	11.7	11.5	12.0	12.3	9.5	10.0	9.8	10.4	10.7
	3H	11.0	11.5	11.4	11.9	12.3	9.3	9.8	9.7	10.2	10.6
	4H	11.0	11.5	11.5	11.9	12.3	9.2	9.7	9.7	10.1	10.5
	6H	11.1	11.5	11.6	11.9	12.4	9.2	9.5	9.6	10.0	10.4
	8H	11.2	11.5	11.7	12.0	12.5	9.1	9.5	9.6	9.9	10.4
	12H	11.4	11.7	11.9	12.1	12.6	9.1	9.4	9.6	9.9	10.4
8H	4H	10.9	11.3	11.4	11.7	12.2	9.2	9.5	9.6	9.9	10.4
	6H	11.0	11.3	11.5	11.8	12.3	9.1	9.4	9.6	9.8	10.4
	8H	11.1	11.4	11.6	11.9	12.4	9.0	9.3	9.6	9.8	10.3
	12H	11.3	11.5	11.9	12.1	12.6	9.0	9.2	9.6	9.7	10.3
12H	4H	10.9	11.2	11.4	11.6	12.1	9.1	9.4	9.6	9.9	10.4
	6H	11.0	11.2	11.5	11.7	12.3	9.0	9.3	9.6	9.8	10.3
	8H	11.1	11.3	11.6	11.8	12.4	9.0	9.2	9.6	9.7	10.3
Variations with the observer position at spacing:											
S =	1.0H	4.5 / -5.0					4.6 / -8.4				
	1.5H	7.2 / -5.5					7.4 / -9.1				
	2.0H	9.1 / -6.0					9.3 / -9.3				