

Last information update: March 2025

Product configuration: RZ78.G0

RZ78.G0: Module for Superrail 48V track - DALI - Neutral White - UGR<19 - L=1372 - - 10.3W 1402.5lm - 4000K - CRI 90 - White/White Transparent

**Product code**

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Technical description

Linear lighting product with Neutral White 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)

0.75

Mounting

Low voltage track

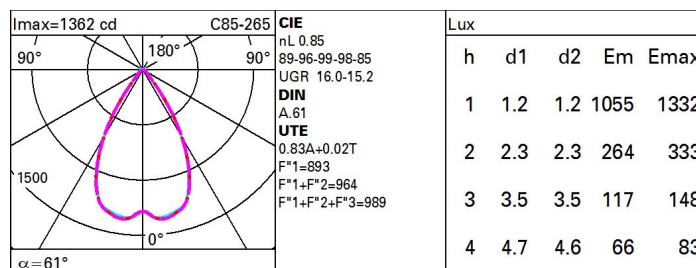
Wiring

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**

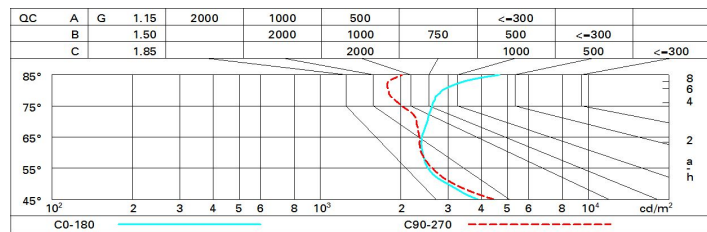
| | | | |
|--|-------|---------------------------------------|---|
| Im system: | 1403 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| W system: | 10.3 | Voltage [Vin]: | 48 |
| Im source: | 1650 | Lamp code: | LED |
| W source: | 8.7 | Number of lamps for optical assembly: | 1 |
| Luminous efficiency (Im/W, real value): | 136.2 | ZVEI Code: | LED |
| Im in emergency mode: | - | Number of optical assemblies: | 1 |
| Total light flux at or above an angle of 90° [Lm]: | 27 | 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]: | 4000 | Overvoltage protection: | 2kV Common mode & 1kV Differential mode |
| MacAdam Step: | 3 | Control: | DALI |

Polar

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 1050 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 | 0.30 |
| | | 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 |
| | | viewed crosswise | | | | | viewed endwise | | | | |
| 2H | 2H | 14.2 | 14.8 | 14.5 | 15.1 | 15.4 | 14.5 | 15.1 | 14.8 | 15.4 | 15.6 |
| | 3H | 14.6 | 15.2 | 15.0 | 15.5 | 15.8 | 14.4 | 15.0 | 14.8 | 15.3 | 15.7 |
| | 4H | 14.9 | 15.5 | 15.3 | 15.8 | 16.1 | 14.4 | 15.0 | 14.8 | 15.3 | 15.6 |
| | 6H | 15.2 | 15.8 | 15.6 | 16.1 | 16.5 | 14.4 | 14.9 | 14.8 | 15.2 | 15.6 |
| | 8H | 15.4 | 15.9 | 15.8 | 16.3 | 16.7 | 14.4 | 14.9 | 14.8 | 15.2 | 15.6 |
| | 12H | 15.7 | 16.2 | 16.1 | 16.5 | 16.9 | 14.3 | 14.8 | 14.7 | 15.2 | 15.6 |
| 4H | 2H | 14.2 | 14.7 | 14.5 | 15.0 | 15.4 | 14.9 | 15.5 | 15.3 | 15.8 | 16.2 |
| | 3H | 14.8 | 15.2 | 15.2 | 15.6 | 16.0 | 15.1 | 15.5 | 15.5 | 15.9 | 16.3 |
| | 4H | 15.2 | 15.6 | 15.6 | 16.0 | 16.4 | 15.1 | 15.6 | 15.6 | 16.0 | 16.4 |
| | 6H | 15.7 | 16.0 | 16.1 | 16.5 | 16.9 | 15.2 | 15.6 | 15.7 | 16.0 | 16.5 |
| | 8H | 16.0 | 16.3 | 16.4 | 16.8 | 17.2 | 15.2 | 15.6 | 15.7 | 16.0 | 16.5 |
| | 12H | 16.4 | 16.7 | 16.9 | 17.1 | 17.6 | 15.2 | 15.5 | 15.7 | 16.0 | 16.5 |
| 8H | 4H | 15.3 | 15.6 | 15.7 | 16.0 | 16.5 | 15.4 | 15.8 | 15.9 | 16.2 | 16.7 |
| | 6H | 15.9 | 16.2 | 16.4 | 16.7 | 17.2 | 15.6 | 15.9 | 16.1 | 16.4 | 16.9 |
| | 8H | 16.3 | 16.6 | 16.9 | 17.1 | 17.6 | 15.7 | 15.9 | 16.2 | 16.4 | 17.0 |
| | 12H | 16.9 | 17.1 | 17.5 | 17.7 | 18.2 | 15.8 | 16.0 | 16.3 | 16.5 | 17.1 |
| 12H | 4H | 15.3 | 15.6 | 15.7 | 16.0 | 16.5 | 15.5 | 15.8 | 16.0 | 16.3 | 16.8 |
| | 6H | 16.0 | 16.2 | 16.5 | 16.7 | 17.2 | 15.7 | 16.0 | 16.3 | 16.5 | 17.0 |
| | 8H | 16.4 | 16.6 | 17.0 | 17.2 | 17.7 | 15.9 | 16.1 | 16.4 | 16.6 | 17.2 |
| 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 | | | | |