

Rectangular LED modules 48x23mm CORAL-IP

A rectangular solution for outdoor lighting. Optimized for LEDiL's CORAL-IP optics.

Product description

- Long life-time
- Built-in, constant current LED module
- Compliance and approval: CE
- Seamless colour mixing for any lighting design



RecLED CLS G1

| Product name | Ordering code | Colour temperature [K] | CRI [-] | Wavelength [nm] | Current nominal If nom [mA] | Luminous flux ¹ φ [lm] | Voltage ¹ Vf [V] | Power ¹ P [W] | Efficacy ¹ [lm/W] | Current maximum If max [mA] |
|---|----------------|------------------------|---------|-----------------|-----------------------------|-----------------------------------|-----------------------------|--------------------------|------------------------------|-----------------------------|
| RecLED 48x23mm 4xRGBW-840 CORAL-IP CLS G1 | 1010 147 58946 | RED | - | 625 | 700 | 203 | 10 | 7.1 | 28 | 1000 |
| | | GREEN | - | 528 | 700 | 483 | 12 | 8.4 | 57 | 1000 |
| | | BLUE | - | 458 | 700 | 128 | 12 | 8.5 | 15 | 1000 |
| | | 4000 | 80 | - | 700 | 615 | 12 | 8.5 | 72 | 1000 |

¹At nominal current and T_p
Tolerance range for optical and electrical ±10%

Temperature & humidity

| Specification item | Unit | Value |
|--|------|-------------|
| T _p | [°C] | 45 |
| T _p rated | [°C] | 45 |
| T _c | [°C] | 85 |
| Relative humidity (non-condensing) | [%] | 5 ... 85 |
| Storage ambient temperature | [°C] | -25 ... +85 |
| Storage relative humidity (non-condensing) | [%] | 5 ... 85 |

T_p - Temperature related to the performance parameters of the LED modules
T_p rated - Maximum operating temperature to which the rated performance characteristics are declared
T_c - Highest permissible value for safe operation

Technical data

| Specification item | Unit | Value |
|----------------------------------|--------|----------|
| Classification acc. to IEC 62031 | | built-in |
| Working voltage | [Vdc] | 60 |
| Beam angle | [deg] | 120 |
| Initial color consistency | [SDCM] | 3 |

Color coordinates

According to CIE 1931

| Specification item | CIE _x | CIE _y |
|--------------------|------------------|------------------|
| 4000K | 0.3818 | 0.3797 |

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Certificates & standards

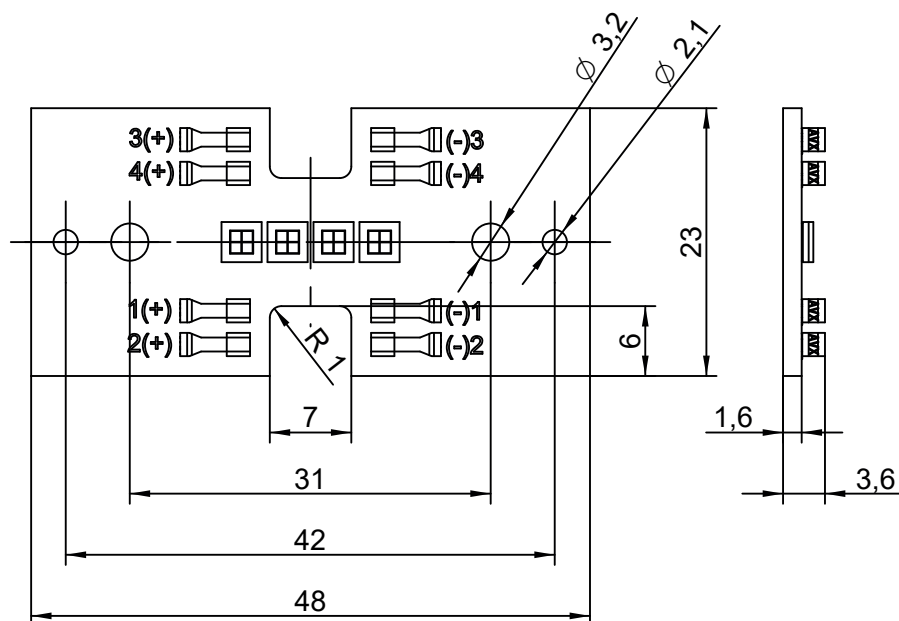
| Specification item | Compliant |
|--------------------|--------------|
| ENEC | No |
| CE | Yes |
| RoHS | Yes |
| REACH | Yes |
| Zhaga | No |
| IP rating | No IP rating |

Lumen maintenance

| Forward current | Tp temp. | Channel | L70 [h] | L90 [h] |
|-----------------|----------|---------|----------|---------|
| 700mA | 85°C | Blue | >109 000 | 41 000 |
| | | Green | >109 000 | 39 400 |
| | | Red | 61 900 | 16 400 |
| | | White | >109 000 | 29 400 |

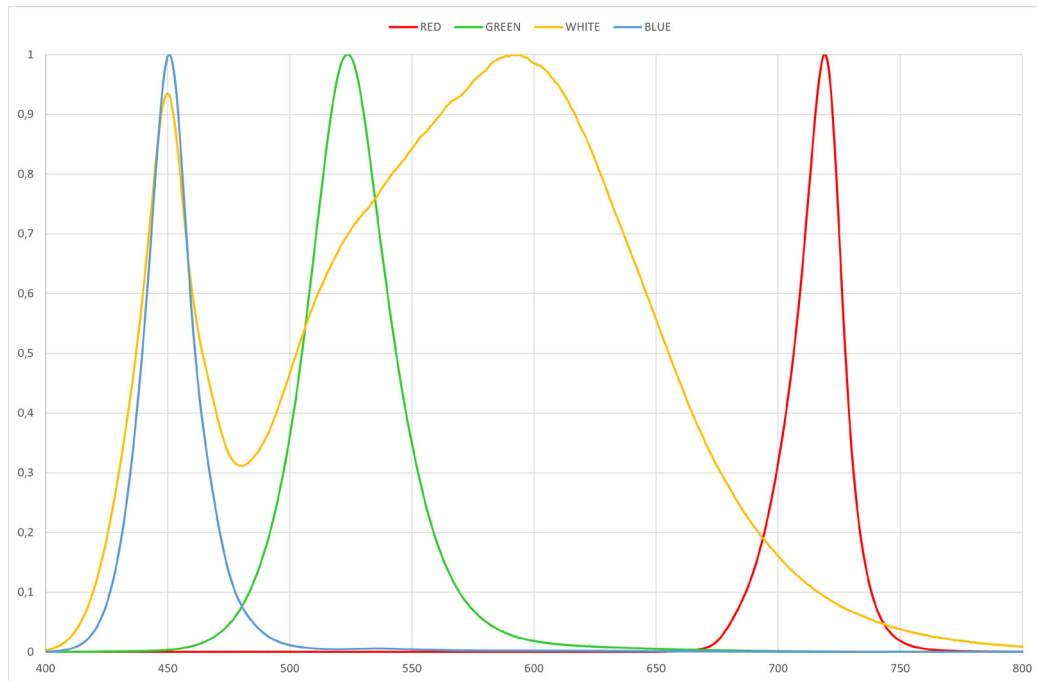
Calculated data based on LM80 LED data

Dimensions



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Spectrum



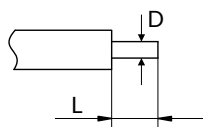
Mounting

LED Modules cannot be exposed to tensile or compressive stresses. For this purpose it is necessary that the modules are assembled to a flat surface by only countersunk head screws M3. Max. torque for fixing: 0,5Nm.

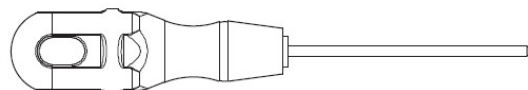
LED modules are sensitive to electrostatic discharge (ESD). Follow safety regulations according to IEC 61340-5-1.

Wiring

Wire cross section and strip length:



Opening for the release of wires with contact opening tool AVX art. 06-9296-7001-01-000:

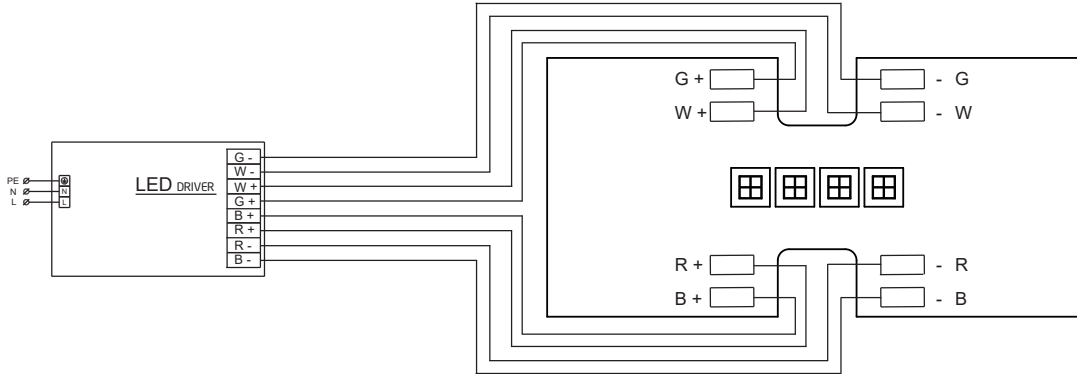


| D - wire cross section (solid and flexible wires) | Min | Max |
|--|--------|--------|
| | AWG 28 | AWG 22 |

| L - strip length | Min | Max |
|------------------|-----|-----|
| | 5mm | 6mm |

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Connections



Ordering codes

| Product name | Ordering code | Pieces per box | Pieces per pallet | Box dimensions [mm] |
|---|----------------|----------------|-------------------|---------------------|
| RecLED 48x23mm 4xRGBW-840 CORAL-IP CLS G1 | 1010 147 58946 | 55 | 39875 | 158 x 76 x 62 |