

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

²It is recommended not to operate below minimum current in order to avoid un-even brightness

Tolerance range for optical and electrical $\pm 10\%$

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	CIEx	CIEy
4000K	0.3818	0.3797

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Certificates & standards

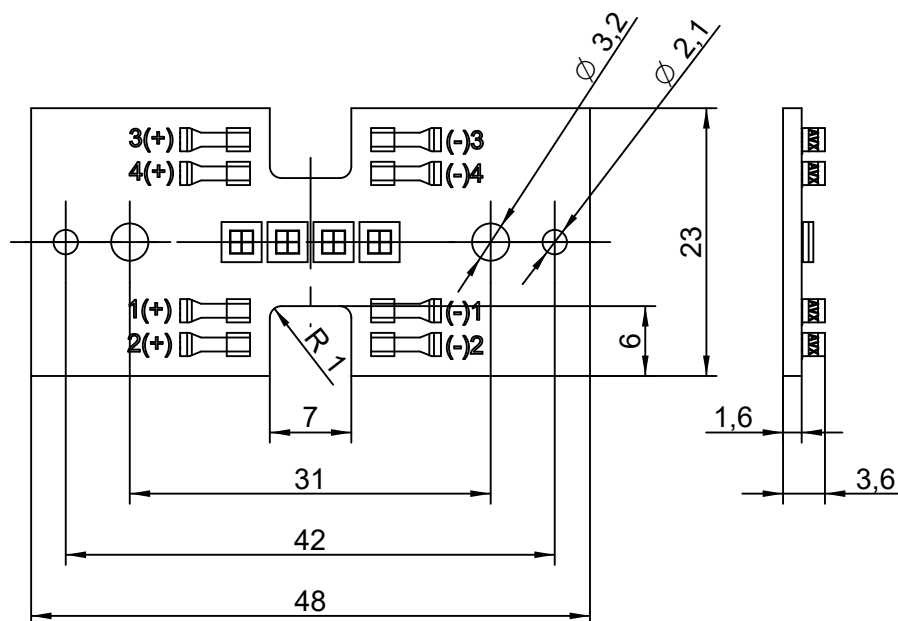
Specification item	Compliant
ENEC	No
CE	Yes
RoHS	Yes
REACH	Yes
Zhaga	No
IP rating	No IP rating

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

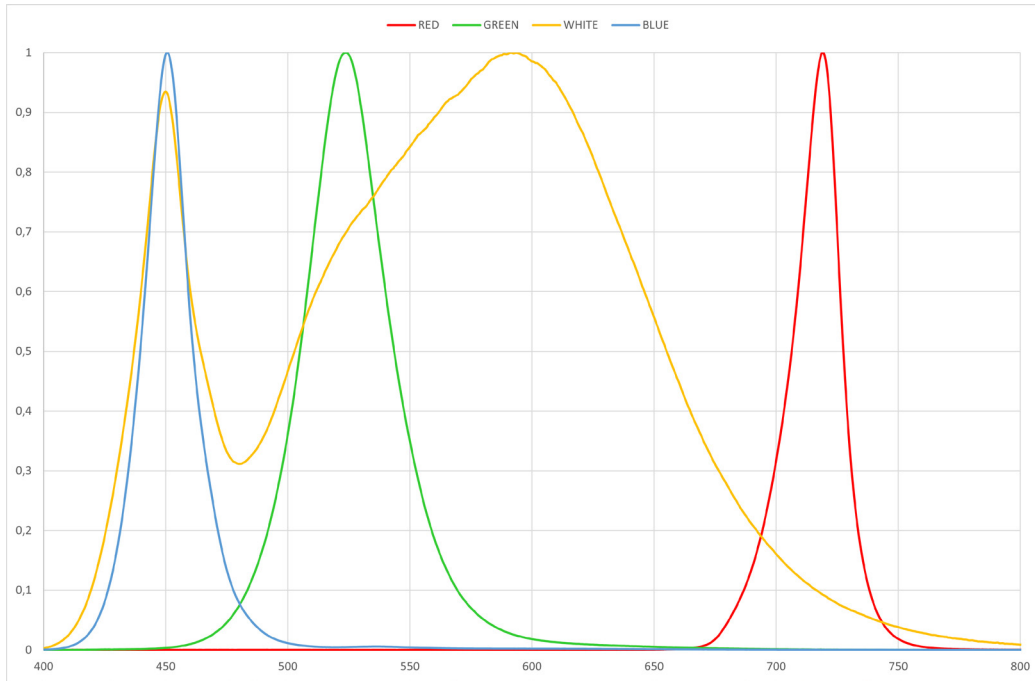
Calculated data based on LM80 LED data

Dimensions



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Spectrum



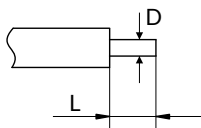
Mounting

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.

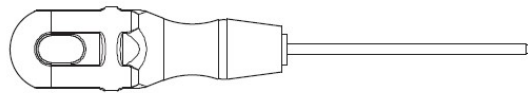
LED modules are sensitive to electrostatic discharge (ESD). Follow safety regulations according to IEC 61340-5-1.

Wiring

Wire cross section and strip length:



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

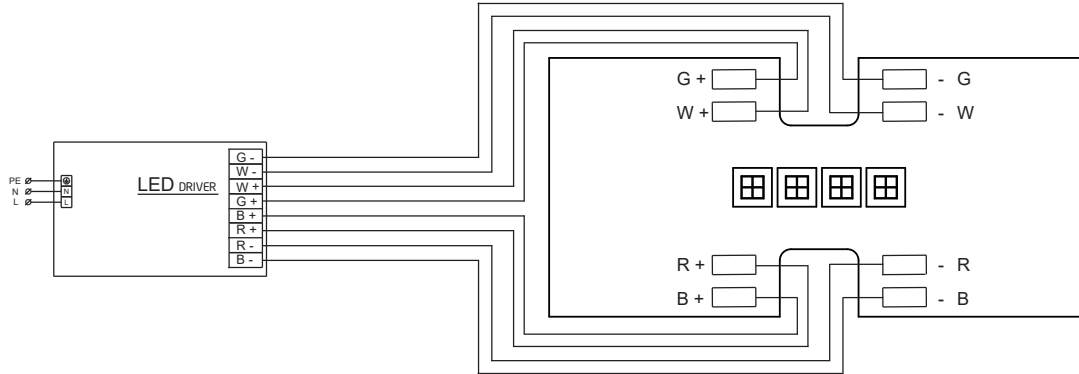


D - wire cross section (solid and flexible wires)	Min	Max
	AWG 28	AWG 22

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	156 x 76 x 61