

LT2BC144180-R-CO | DATASHEET

High uniformity continuous LED backlight, 144 x 180 mm illumination area, red, with collimation film in both directions





SPECIFICATIONS

Lighting specifications

Modules		3x5
Illumination area width	(mm)	144
Illumination area height	(mm)	180
Number of LEDs		720
Light color, peak wavelength		red, 620 nm
Spectral FWHM	(nm)	20
Illuminance ¹	(klux)	11
Irradiance ¹	(W/m ²)	-
Diffuser		yes
Collimation film		yes

Electrical specifications

Supply voltage	(V)	24
Current ²	(mA)	1200
Power consumption ²	(W)	28.8
Typical pulse voltage	(V)	35.1
Max pulse current ³	(mA)	2500
Peak power consumption	(W)	87.8
Max duty cycle	(%)	1.5
Max pulse duration	(ms)	1
Connector		M8
Included cable		CBLT003

KEY ADVANTAGES

Excellent uniformity

Test report with measured uniformity

Ultra high-power light output and strobe mode operation For inspection and measurement of fast moving objects and an extended LED lifetime

Suitable for frequent cleaning Thanks to the optical grade and scratch resistant protective cover

Wide selection and modular design Size options range from 48 x 36 to 288 x 216 mm available in red, white, green, blue and infrared

Compact design with reduced thickness (26 mm)

Special continuous alignment mode

Optional integrated collimation film

The LT2BC series offers high power LED backlights designed to provide exceptional illumination performances and excellent uniformity.

Mechanical specifications

Length	(mm)	156.0
Width	(mm)	200.0
Height	(mm)	26.0
Mass	(g)	1400
Clamping system	4>	M6 threaded holes

Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85 non condensing
IP rating		IP40
Installation		Indoor use only

Eye safety

Risk group (CEI EN 62471:2010)	Exempt
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¹ Minimum value, at max driving current, on emitting surface. Where n.a. is reported data is available upon request.

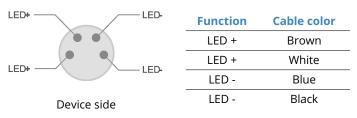
² Tolerance $\pm 10\%$

³ At 25°C. At max pulse width (1 ms), max pulse frequency = 15 Hz.

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CONNECTOR PINOUT

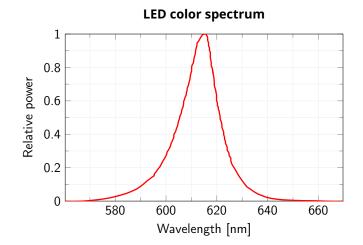


COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.



Emission angle $h_{\text{regive}}^{\text{figure}} = 0.5 - 0.5 - 0.5 - 0.5 - 0.0 - 50 - 100$ Angle [°]

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