

# LT2BC240180-W-CO | DATASHEET

## High uniformity continuous LED backlight, 240 x 180 mm illumination area, white, with collimation film in both directions





#### **SPECIFICATIONS**

#### **Lighting specifications**

Modules		5x5
Illumination area width	(mm)	240
Illumination area height	(mm)	180
Number of LEDs		1200
Light color, peak wavelength		white, > 4500 K
Spectral FWHM	(nm)	-
Illuminance <sup>1</sup>	(klux)	16
Irradiance <sup>1</sup>	(W/m <sup>2</sup> )	-
Diffuser		yes
Collimation film		yes

#### **Electrical specifications**

Supply voltage	(V)	24
Current <sup>2</sup>	(mA)	1900
Power consumption <sup>2</sup>	(W)	45.6
Typical pulse voltage	(V)	35.8
Max pulse current <sup>3</sup>	(mA)	4100
Peak power consumption	(W)	146.8
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)	252.0
Width	(mm)	200.0
Height	(mm)	26.0
Mass	(g)	1736
Clamping system	8	x 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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<sup>1</sup> Minimum value, at max driving current, on emitting surface. Where n.a. is reported data is available upon request.

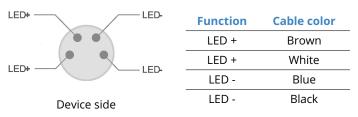
<sup>2</sup> Tolerance  $\pm 10\%$ 

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

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### **CONNECTOR PINOUT**

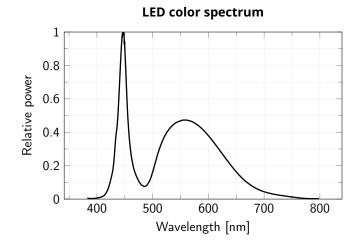


# COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.



Emission angle

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