

# LT2BC048144-B | DATASHEET

# High uniformity continuous LED backlight, 48 x 144 mm illumination area, blue





#### **SPECIFICATIONS**

## **Lighting specifications**

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Modules		1x4
Illumination area width	(mm)	48
Illumination area height	(mm)	144
Number of LEDs		192
Light color, peak wavelength		blue, 470 nm
Spectral FWHM	(nm)	25
Illuminance <sup>1</sup>	(klux)	6
Irradiance <sup>1</sup>	(W/m <sup>2</sup> )	-
Diffuser		yes
Collimation film		no

#### **Electrical specifications**

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Supply voltage	(V)	24
Current <sup>2</sup>	(mA)	460
Power consumption <sup>2</sup>	(W)	11.0
Typical pulse voltage	(V)	34.8
Max pulse current <sup>3</sup>	(mA)	1000
Peak power consumption	(W)	34.8
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  $48 \times 36$  to  $288 \times 216$  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)	60.0
Width	(mm)	164.0
Height	(mm)	26.0
Mass	(g)	860
Clamping system		4x 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

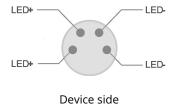
#### **Eye safety**

Risk group (CEI EN 62471:2010	) Risk group 1
11131 G1 0 GP (CEI E11 0 2 +7 1.2010	, KISK BIOUP I

- <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 ±10%
- $^{3}$  At 25°C. At max pulse width (1 ms), max pulse frequency = 15 Hz.



# **CONNECTOR PINOUT**



Function	Cable color
LED +	Brown
LED +	White
LED -	Blue
LED -	Black

## **COMPATIBLE PRODUCTS**

Full list of compatible products available here.



A wide selection of innovative machine vision components.

