

## LT2BC144072-W-CO | DATASHEET

# High uniformity continuous LED backlight, 144 $\times$ 72 mm illumination area, white, with collimation film in both directions





#### **SPECIFICATIONS**

#### **Lighting specifications**

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Modules		3x2
Illumination area width	(mm)	144
Illumination area height	(mm)	72
Number of LEDs		288
Light color, peak wavelength		white, > 4500 K
Spectral FWHM	(nm)	-
Illuminance <sup>1</sup>	(klux)	22
Irradiance <sup>1</sup>	$(W/m^2)$	=
Diffuser		yes
Collimation film		yes

### **Flectrical specifications**

Electrical specifications		
Supply voltage	(V)	24
Current <sup>2</sup>	(mA)	640
Power consumption <sup>2</sup>	(W)	15.4
Typical pulse voltage	(V)	35.0
Max pulse current <sup>3</sup>	(mA)	1400
Peak power consumption	(W)	49.0
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

#### 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)	92.0
Height	(mm)	26.0
Mass	(g)	626
Clamping system	4x	M6 threaded holes

#### **Environment**

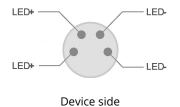
Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85 non condensing
IP rating		IP40
Installation		Indoor use only

Risk group (CEI EN 62471:2010)	Exempt	
<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%
- <sup>3</sup> 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.

