

## High Power strobed LED backlight, 240 x 108 mm illumination area, IR



### 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 LTBP series** offers high power LED backlights designed to provide exceptional illumination performances and excellent uniformity.



### SPECIFICATIONS

#### Lighting specifications

Modules		5x3
Illumination area width	(mm)	240
Illumination area height	(mm)	108
Number of LEDs		720
Light color, peak wavelength		IR, 850 nm
Spectral FWHM	(nm)	30
Illuminance <sup>1</sup>	(klux)	-
Irradiance <sup>1</sup>	(W/m <sup>2</sup> )	n.a.
Diffuser		yes
Collimation film		no

#### Electrical specifications

Power supply mode		Strobe only, constant current driving
Peak power consumption	(W)	226.8
Max pulse current <sup>2</sup>	(A)	12.6
Typical pulse voltage	(V)	18.0
Max pulse duration	(ms)	1
Max duty cycle	(%)	1.5
Max continuous current	(mA)	75
Estimated MTBF <sup>3</sup>	(hours)	> 50000
Connector		M8
Included cable		CBLT003

#### Mechanical specifications

Length	(mm)	252.0
Width	(mm)	128.0
Height	(mm)	26.0
Mass	(g)	1111
Clamping system		8x M6 threaded holes
<b>Environment</b>		
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
<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> Models where two currents are listed (such as LTBP240180-R) feature two separate channels.	
<sup>3</sup> At 25°C	

### CONNECTOR PINOUT



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

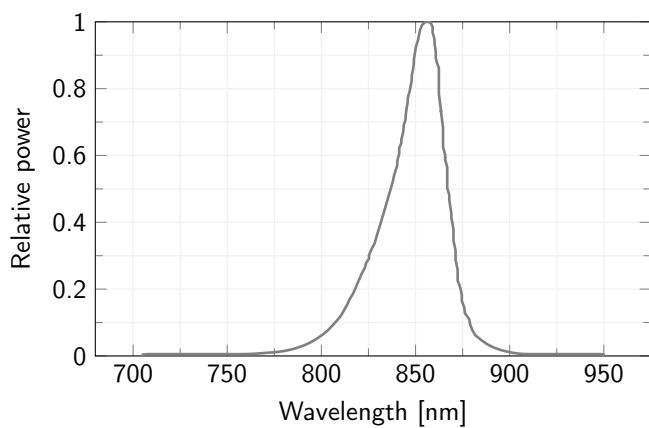
### COMPATIBLE PRODUCTS

Full list of compatible products available [here](#).



A wide selection of innovative machine vision components.

### LED color spectrum



### Emission angle

