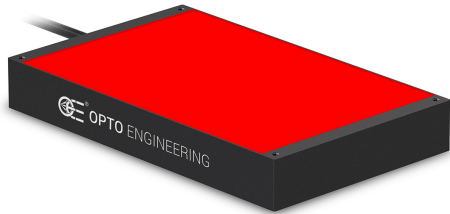


# LT3BC100150-R | DATASHEET

OPTO ENGINEERING

## High-power LED backlights with integrated driver



### SPECIFICATIONS

#### Lighting specifications

Illumination area height	(mm)	100
Illumination area width	(mm)	150
Number of LEDs		216
Light color, peak wavelength		red, 625 nm
Spectral FWHM	(nm)	20
Illuminance, continuous <sup>1</sup>	(klux)	21
Irradiance, continuous <sup>1</sup>	(W/m <sup>2</sup> )	87
Illuminance, boosted <sup>1</sup>	(klux)	42
Irradiance, boosted <sup>1</sup>	(W/m <sup>2</sup> )	178
Illuminance, strobe <sup>1</sup>	(klux)	188
Irradiance, strobe <sup>1</sup>	(W/m <sup>2</sup> )	772
Diffuser		yes
Collimation film		optional

#### Mechanical specifications

Height	(mm)	108.0
Width	(mm)	176.0
Thickness	(mm)	24.0
Mass	(g)	450
Clamping system		4x M4 threaded holes

#### Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
Installation		Indoor use only
IP rating		IP54

### KEY ADVANTAGES

#### High-power light output

**Built-in driver** for continuous and strobe operations

#### Industry standard 5 PIN M12 Connector

with PNP/NPN/analog dimming input

#### Optional collimating, polarizing and protective filters

**Compact & robust design** with reduced thickness (24 mm) and thin edges

**Automatic shutdown** in case of overheating

**The LT3BC series** features high-performance LED backlights designed to provide high-power light output, excellent uniformity and contrast thanks to high-efficiency LEDs.

#### Electrical specifications

Operating mode		Continuous and strobe
Supply voltage	(V)	24
Current, continuous	(mA)	600
Power consumption, continuous	(W)	14.4
Current, boosted	(mA)	1200
Power consumption, boosted	(W)	28.8
Peak current, strobe	(mA)	4800
Peak power consumption, strobe	(W)	115
Min pulse duration	(μs)	3
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(ns)	300
Typical jitter	(ns)	10

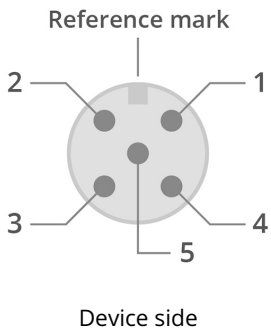
I/O interface	PNP logic input, NPN dimming input , analog dimming input
Connector	1x M12 straight plug male connector
Included cable	not included

#### Eye safety

Risk group (CEI EN 62471:2010)	Exempt
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<sup>1</sup> At emitting surface.

CONNECTOR PINOUT



Pin	Function
1	+24Vdc
2	NPN
3	GND
4	PNP
5	Analogue dimming (0-10V)

COMPATIBLE PRODUCTS

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

OPTICS

LIGHTING

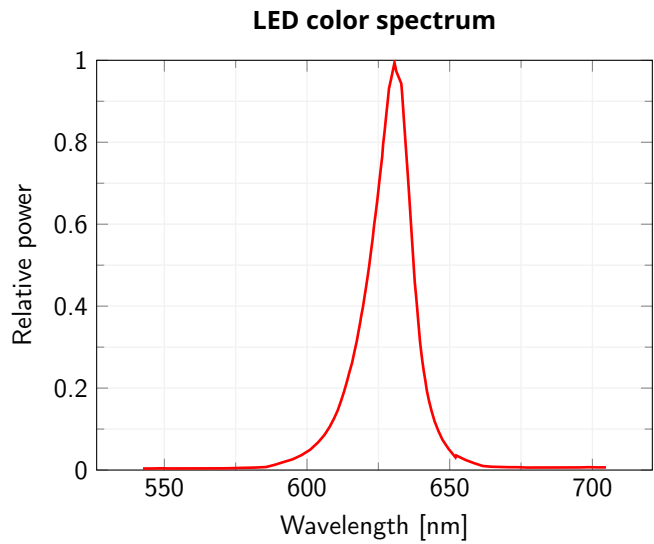
CAMERAS

SOFTWARE

ACCESSORIES



A wide selection of innovative machine vision components.



All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.