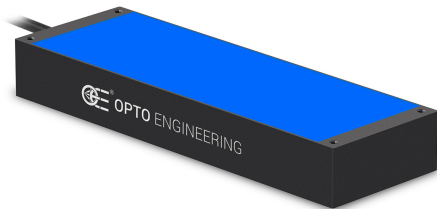




# LT3BC050150-B | DATASHEET

## High-power LED backlights with integrated driver



### SPECIFICATIONS

#### Lighting specifications

Illumination area height	(mm)	50
Illumination area width	(mm)	150
Number of LEDs		108
Light color, peak wavelength		blue, 465 nm
Spectral FWHM	(nm)	30
Illuminance, continuous <sup>1</sup>	(klux)	12
Irradiance, continuous <sup>1</sup>	(W/m <sup>2</sup> )	471
Illuminance, boosted <sup>1</sup>	(klux)	22
Irradiance, boosted <sup>1</sup>	(W/m <sup>2</sup> )	920
Illuminance, strobe <sup>1</sup>	(klux)	52
Irradiance, strobe <sup>1</sup>	(W/m <sup>2</sup> )	2374
Diffuser		yes
Collimation film		optional

#### Mechanical specifications

Height	(mm)	108.0
Width	(mm)	176.0
Thickness	(mm)	24.0
Mass	(g)	287
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)	420
Power consumption, continuous	(W)	10.1
Current, boosted	(mA)	840
Power consumption, boosted	(W)	20.2
Peak current, strobe	(mA)	2400
Peak power consumption, strobe	(W)	57.6
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		M12 straight plug male connector
Included cable		1x 20 cm pigtail

#### Eye safety

Risk group (CEI EN 62471:2010) Risk group 1

<sup>1</sup> At emitting surface.

**CONNECTOR PINOUT**



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

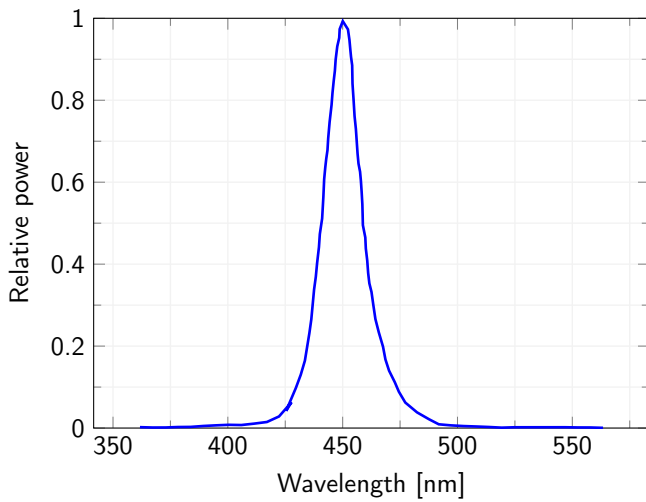
**COMPATIBLE PRODUCTS**

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



A wide selection of innovative machine vision components.

**LED color spectrum**



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.