

## High uniformity continuous LED backlight, 96 x 216 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 LT2BC series** offers high power LED backlights designed to provide exceptional illumination performances and excellent uniformity.

### SPECIFICATIONS

#### Lighting specifications

|                              |                     |            |
|------------------------------|---------------------|------------|
| Modules                      |                     | 2x6        |
| Illumination area width      | (mm)                | 96         |
| Illumination area height     | (mm)                | 216        |
| Number of LEDs               |                     | 576        |
| Light color, peak wavelength |                     | IR, 860 nm |
| Spectral FWHM                | (nm)                | 30         |
| Illuminance <sup>1</sup>     | (klux)              | -          |
| Irradiance <sup>1</sup>      | (W/m <sup>2</sup> ) | 177        |
| Diffuser                     |                     | yes        |
| Collimation film             |                     | no         |

#### Electrical specifications

|                                |      |         |
|--------------------------------|------|---------|
| Supply voltage                 | (V)  | 24      |
| Current <sup>2</sup>           | (mA) | 1000    |
| Power consumption <sup>2</sup> | (W)  | 24.0    |
| Typical pulse voltage          | (V)  | 35.1    |
| Max pulse current <sup>3</sup> | (mA) | 2250    |
| Peak power consumption         | (W)  | 79.0    |
| Max duty cycle                 | (%)  | 1.5     |
| Max pulse duration             | (ms) | 1       |
| Connector                      |      | M8      |
| Included cable                 |      | CBLT003 |

#### Mechanical specifications

|                 |      |                      |
|-----------------|------|----------------------|
| Length          | (mm) | 108.0                |
| Width           | (mm) | 236.0                |
| Height          | (mm) | 26.0                 |
| Mass            | (g)  | 1463                 |
| 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) | 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       |

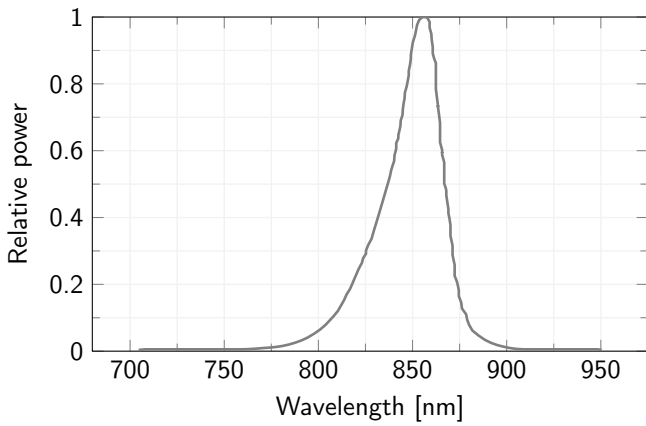
**COMPATIBLE PRODUCTS**

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

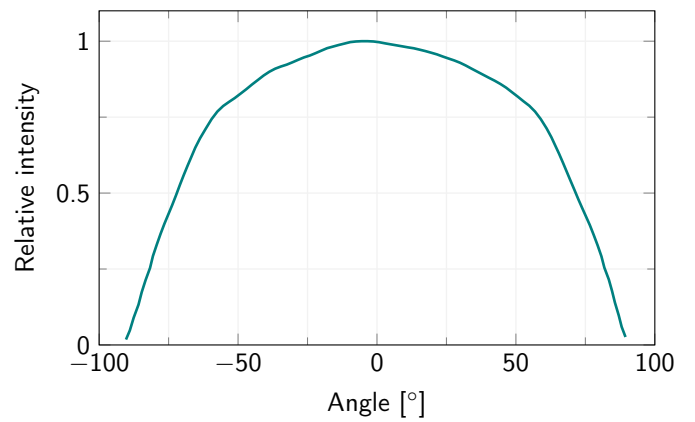


A wide selection of innovative machine vision components.

**LED color spectrum**



**Emission angle**



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