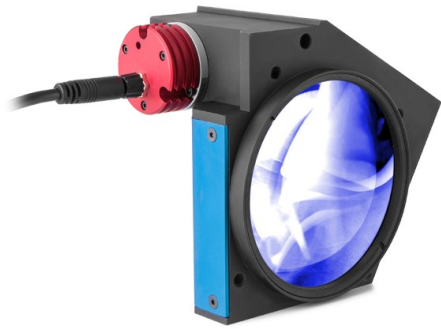


LTCLCR064-B | DATASHEET

Telecentric CORE illuminator, beam dimension $\varnothing=86.0$, $x=67.0$ mm, blue



KEY ADVANTAGES

Deliver excellent performances

LTCLHP CORE telecentric illuminators deliver exactly the same excellent optical performances as other Opto Engineering® telecentric illuminators.

Downsize your vision system

LTCLHP CORE telecentric illuminators are up to 60% smaller than other telecentric illuminators on the market.

Easy retrofitting into existing systems

LTCLHP CORE illuminators can be mounted in different directions in your machine.

Improve your system performances

LTCLHP CORE illuminators may be used instead of flat backlights to improve your system.

Cut costs and sell more

A smaller system means less expenses and less space and is preferred by the industry.

Homogeneity test report with measured values

The **LTCLHP CORE Series** offers ultra compact telecentric illuminators. They are up to 60% more compact than other collimated illuminators on the market.



SPECIFICATIONS

Lighting specifications

| | | |
|---|------|-------------------------------|
| Beam dimension ¹ | (mm) | $\varnothing=86.0$, $x=67.0$ |
| Working distance | (mm) | 120 - 240 |
| Light color, peak wavelength ² | | blue, 460 nm |
| Spectral FWHM | (nm) | 25 |

Electrical specifications

| | | |
|--|------|------------|
| Supply voltage ³ | (V) | 12-24 |
| Max power consumption | (W) | 2.5 |
| Led forward voltage typical (max) ⁴ | (V) | 3.3 (4.0) |
| Max led forward current ⁵ | (mA) | 350 |
| Max pulse current ⁶ | (mA) | 2000 |
| Connector | | M8 |
| Included cable | | CB244P1500 |

Mechanical specifications

| | | |
|----------------|------|-------|
| A | (mm) | 100.5 |
| B | (mm) | 122.0 |
| C ⁷ | (mm) | 134.7 |
| Mass | (g) | 1851 |

Environment

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

Eye safety

| | |
|--------------------------------|--------------|
| Risk group (CEI EN 62471:2010) | Risk group 2 |
|--------------------------------|--------------|

¹ Beam shape is not circular.

² Opto Engineering recommends green light for high precision measurements application

³ Tolerance $\pm 10\%$

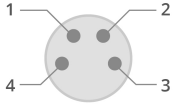
⁴ At max forward current. Tolerance is $\pm 0.06V$ on forward voltage measurements

⁵ In continuous mode (not pulsed)

⁶ At pulse with $\leq 10ms$ and duty cycle $\leq 10\%$. Built in electronics board must be bypassed.

⁷ Nominal value, with no spacers in place.

M8 CONNECTOR PINOUT



Device side

| Pin | Function | Cable color |
|-----|-------------------------|--------------|
| 1 | Earth | Yellow/Green |
| 2 | Ground | Black |
| 3 | Anode | Blue |
| 4 | Power supply (+12/24 V) | Brown |

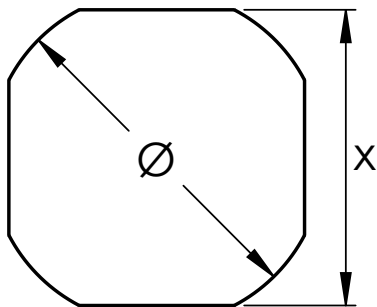
COMPATIBLE PRODUCTS

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

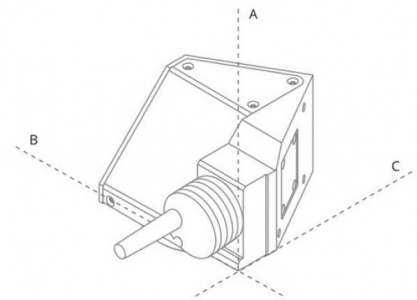


A wide selection of innovative machine vision components.

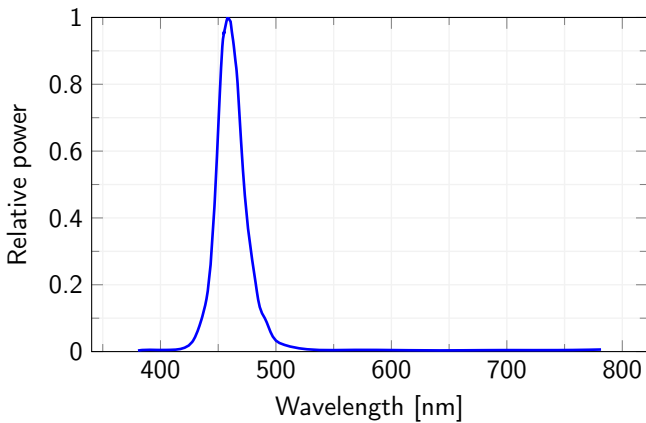
BEAM SHAPE



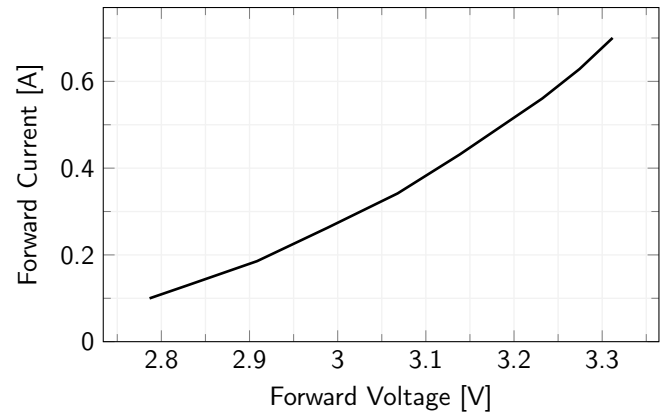
LTCLHP CORE illuminator dimensions (A, B, C)



LED color spectrum



Forward Current Characteristics



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.