

# LTCLCP260-G | DATASHEET

Space-saving telecentric illuminator for LARGE FOV systems, beam dimension 265 x 200 mm, green



## KEY ADVANTAGES

### Large illumination area in a super compact form factor

LTCLHP CORE PLUS are up to 40% shorter than other telecentric lights on the market.

### Reduce the size of your vision system

The working distance of LTCLHP CORE PLUS telecentric illuminators has been optimized to reduce the overall system's footprint.

### Boost your measurement system's performance

LTCLHP CORE PLUS illuminators may be used in place of flat backlights to improve your system's performance.

### Smart integration

LTCLHP CORE PLUS illuminators integrate a mounting flange for easy integration without additional clamps.

### System compactness is a competitive advantage

A smaller vision system or measurement machine is preferred by the industry.



**LTCLHP CORE PLUS** telecentric illuminators are designed to illuminate large areas in a reduced space. They are up to 40% shorter than other telecentric lights on the market.

## SPECIFICATIONS

### Lighting specifications

|   |      |               |
|---|------|---------------|
| Beam dimension <sup>1</sup>               | (mm) | 265 x 200     |
| Working distance                          | (mm) | 270 - 500     |
| Light color, peak wavelength <sup>2</sup> |      | green, 525 nm |
| Spectral FWHM                             | (nm) | 40            |

### Electrical specifications

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

### Mechanical specifications

|                |      |       |
|----------------|------|-------|
| A <sup>7</sup> | (mm) | 480.0 |
| B <sup>7</sup> | (mm) | 397.0 |
| C <sup>7</sup> | (mm) | 435.0 |
| Mass           | (g)  | 12354 |

### Environment

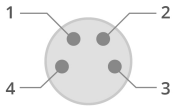
|                             |      |                       |
|-----------------------------|------|-----------------------|
| Operating temperature       | (°C) | 0-40                  |
| Storage temperature         | (°C) | 0-50                  |
| Operating relative humidity | (%)  | 20-85, non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

### Eye safety

|  |              |
|--|--------------|
| Risk group (CEI EN 62471:2010)   | Risk group 1 |
| <sup>1</sup> Beam shape is not circular  |              |
| <sup>2</sup> Opto Engineering recommends green light for high precision measurements application     |              |
| <sup>3</sup> Tolerance ±10%  |              |
| <sup>4</sup> At max forward current. Tolerance is ±0.06V on forward voltage measurements             |              |
| <sup>5</sup> In continuous mode (not pulsed)   |              |
| <sup>6</sup> At pulse with ≤ 10ms and duty cycle ≤ 10%. Built in electronics board must be bypassed. |              |
| <sup>7</sup> Nominal value, with no spacers in place.  |              |

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.

**M8 CONNECTOR PINOUT**



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

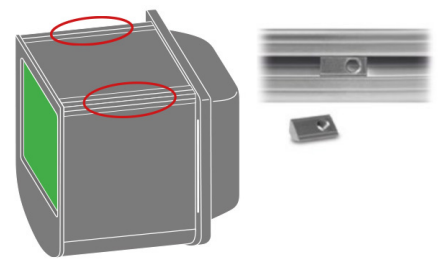
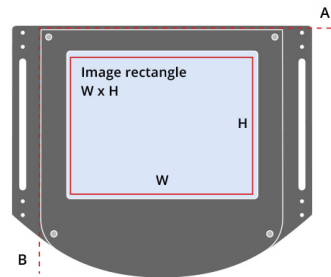
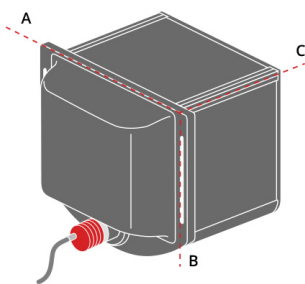
**COMPATIBLE PRODUCTS**

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



A wide selection of innovative machine vision components.

**LTCLHP CORE PLUS illuminator dimensions (A, B, C)**

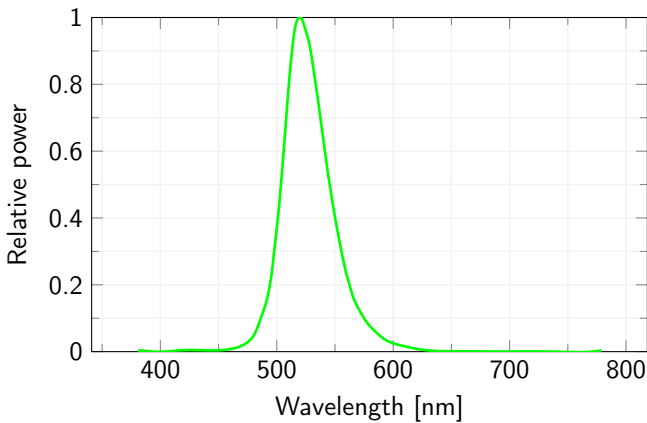


A, B and C indicate the mechanical dimensions of the illuminator.

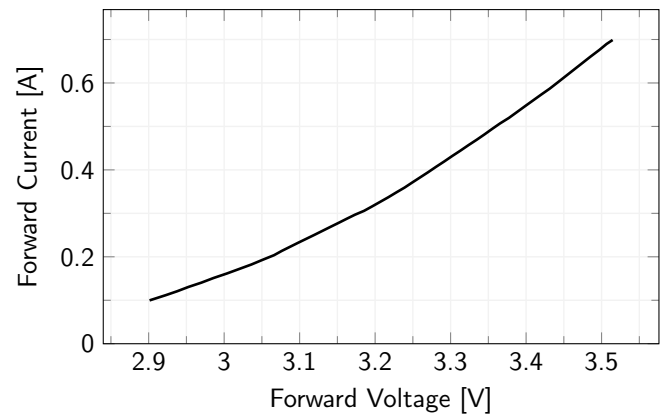
The width of the beam rectangle is aligned along the A axis. The height of the beam rectangle is aligned along the B axis.

Integrated extruded aluminum profiles with M5 T-slot nuts allow for easy and cost-effective mounting.

**LED color spectrum**



**Forward Current Characteristics**



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