

LTCLCR048-R | DATASHEET

Telecentric CORE illuminator, beam dimension \oslash =56.0, x=50.0 mm, red

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



SPECIFICATIONS

Lighting specifications

Beam dimension ¹	(mm)	⊘=56.0, x=50.0
Working distance	(mm)	90 - 180
Light color, peak wavelength ²		red, 625 nm
Spectral FWHM	(nm)	20

Electrical specifications

(V)	12-24
(W)	2.5
(V)	2.4 (3)
(mA)	350
(mA)	2000
	M8
	CB244P1500
	(W) (V) (mA)

Mechanical specifications

A	(mm)	76.9
В	(mm)	106.0
C ⁷	(mm)	117.1
Mass	(g)	1030

nators. They are up to 60% more compact than other collimated illuminators on the market.

The LTCLHP CORE Series offers ultra compact telecentric illumi-

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)

Exempt

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 $\pm 0.06\mathrm{V}$ on forward voltage measurements

⁵ In continuous mode (not pulsed)

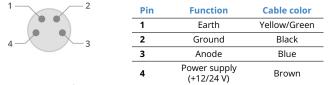
 6 At pulse with \leq 10ms and duty cycle \leq 10%. Built in electronics board must be bypassed.

⁷ Nominal value, with no spacers in place.

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.

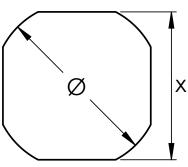


M8 CONNECTOR PINOUT



Device side

BEAM SHAPE



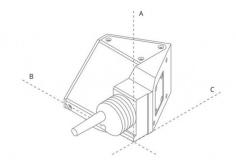
COMPATIBLE PRODUCTS

Full list of compatible products available here.



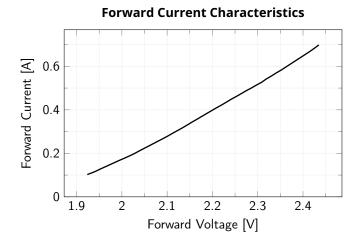
A wide selection of innovative machine vision components.

LTCLHP CORE illuminator dimensions (A, B, C)



1 0.8 Relative power 0.6 0.4 0.2 0 400 500 600 700 800 Wavelength [nm]

LED color spectrum



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