

LTCLCR080-R | DATASHEET

Telecentric CORE illuminator, beam dimension ⊘=98.0, x=90.0 mm, red



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

illuminators on the market.

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

The LTCLHP CORE Series offers ultra compact telecentric illumi-

nators. They are up to 60% more compact than other collimated

Homogeneity test report with measured values



SPECIFICATIONS

Lighting specifications

Beam dimension ¹	(mm)	⊘=98.0, x=90.0
Working distance	(mm)	150 - 300
Light color, peak wavelength ²		red, 625 nm
Spectral FWHM	(nm)	20

Electrical specifications

Supply voltage ³	(V)	12-24
Max power consumption	(W)	2.5
Led forward voltage typical (max) ⁴	(V)	2.4 (3)
Max led forward current ⁵	(mA)	350
Max pulse current ⁶	(mA)	2000
Connector		M8
Included cable		CB244P1500

Mechanical specifications

A	(mm)	118.9
В	(mm)	145.0
C ⁷	(mm)	158.4
Mass	(g)	2933

Environmont

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

⁵ In continuous mode (not pulsed)

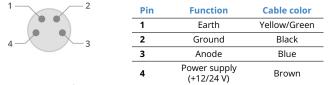
 6 At pulse with \leq 10ms and duty cycle \leq 10%. Built in electronics board must be bypassed.

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.

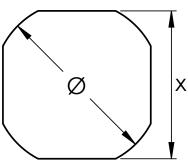


M8 CONNECTOR PINOUT



Device side

BEAM SHAPE



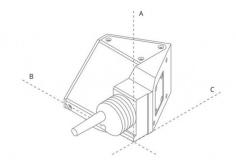
COMPATIBLE PRODUCTS

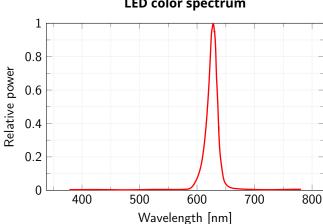
Full list of compatible products available here.



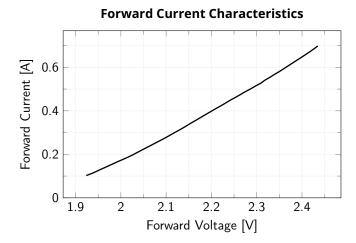
A wide selection of innovative machine vision components.

LTCLHP CORE illuminator dimensions (A, B, C)





LED color spectrum



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