# LTCLHP080-B

Telecentric HP illuminator, beam diameter 100 mm, blue

## SPECIFICATIONS

Optical specifications		
3eam diameter	(mm)	100
Norking distance range	(mm)	150 - 300
ight color, peak wavelength (1)		blue, 460 nm
Nechanical specifications		
ength (2)	(mm)	277.2
Duter diameter	(mm)	116
Mass	(g)	1348
lectrical specifications		
evice power ratings		
C voltage minimum (3)	(V)	12
C voltage maximum (3)	(V)	24
ower consumption	(W)	< 2.5
lax LED forward current (4)	(mA)	350
ables		CB244P1500 included
ED power ratings		
orward voltage (typical) (5)	(V)	3.3
orward voltage (max) (5)	(V)	4.00



## CONNECTION



*Device side - male pins Front view* 

Pinout reference

cicicite	
Function	
Earth	
GND	
LED Anode	
Power supply (+12÷24 V)	

# EACH

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.

#### Eye safety

Risk group according to CEI EN 62471:2010	Risk group 2
Last update: 2021-06-22	

## NOTES

- 1. Opto  $\mathsf{Engineering} \circledast$  recommends green light for high precision measurement applications
- 2. Nominal value, with no spacers in place
- 3. Tolerance ± 10%
- 4. Used in continuous (not pulsed) mode
- 5. At max forward current. Tolerance is  $\pm 0.06V$  on forward voltage measurements
- 6. At pulse width <= 10 ms, duty cycle <= 10% condition. Built-in electronics board must be bypassed (see tech info)

## COMPATIBLE PRODUCTS

Despite the efforts made to generate an error-free compatibility list, we always recommend to consult the Opto Engineering® **technical support** department before purchasing a compatible product. Opto Engineering® shall not be liable for any damage or malfunctioning caused by the incorrect selection of a compatible product.



Bi-telecentric lenses for sensors up to 2/3"

TC23072	Bi-telecentric lens for 2/3" detectors, magnification 0.122 x, C-mount
TC13080	Bi-telecentric lens for 1/3" detectors, magnification 0.059 x, C-mount
TC12080	Bi-telecentric lens for 1/2" detectors, magnification 0.080 x, C-mount
TC23080	Bi-telecentric lens for 2/3" detectors, magnification 0.110 x, C-mount



TC CORE series

Compact bi-telecentric lenses for sensors up to 2/3"



TCCR12080
TCCR23080

 Bi-telecentric CORE lens for 1/2" detectors, magnification 0.080 x, C-mount

 Bi-telecentric CORE lens for 2/3" detectors, magnification 0.110 x, C-mount



TC1MHR-TC4MHR CORE series

Compact telecentric lenses for sensors up to 4/3"

TCCR2M080-C	Telecentric CORE lens for 1" detectors, magnification 0.160 x, C-mount
TCCR2M080-E	Telecentric CORE lens for 1" detectors, magnification 0.160 x, M42x1 FD=16
TCCR4M080-C	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, C-mount
TCCR4M080-F	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, F-mount
TCCR4M080-E	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, M42x1 FD=16

TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"

TC1MHR080-C	High resolution telecentric lens for 1/1.2" detectors, magnification 0.134x, C-mount
TC2MHR080-C	High resolution telecentric lens for 1" detectors, magnification 0.160x, C-mount
TC2MHR080-F	High resolution telecentric lens for 1" detectors, magnification 0.160x, F-mount
TC2MHR080-E	High resolution telecentric lens for 1" detectors, magnification 0.160x, mount M42X1 FD=16
TC3MHR080-C	High resolution telecentric lens for 1.1" detectors, magnification 0.182x, C-mount
TC4MHR080-C	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, C-mount
TC4MHR080-F	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, F-mount
TC4MHR080-E	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, mount M42X1 FD=16

TC16M series

Telecentric lenses for sensors up to 43.3 mm and 8k line scan cameras

TC16M080	Telecentric lens for 35 mm detectors, magnification 0.463 x, F-mount	
TC16M080-Q	Telecentric lens for 35 mm detectors, magnification 0.463 x, mount M58x0.75 FD = 6.56	
—	C12K series	
Telecentric le	enses for sensors up to 62 mm and 12k line scan cameras	
	Telecentric lens for 12k and 16k line scan cameras, magnification 0.698 x, M72 x 0.75 mount	
- () т	C12M series	
Telecentric le	enses for sensors up to APS-H and 4k line scan cameras	
TC12M080-F	High resolution telecentric lenses, magnification 0.376, WD 199.0, F mount	
TC12M080-J	High resolution telecentric lenses, magnification 0.376, WD 199.1, M42x1 FD12	
<sup>-</sup>	CMBS series	
4	I5° beam splitters	
CMBS080	45° beam splitter with mount for 116 mm clamping diameter optics	
A	Accessories	
A	accessories and add-ons to make the most of Opto Engineering ${}^{\!\!\mathrm{I}\!\!\mathrm{B}}$ lenses.	
	Replacement LED source, blue	
LED1W-B		
LED1W-B	Diffuser cap for LTCLHP illuminators	
	Diffuser cap for LTCLHP illuminators	
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WI series

0	Protective windov	vs for lenses
WI080	Protective windo	ow for 116 mm clamping diameter optics
20	CMHO series	
~	Clamping mechar	ics for lenses
CMHO080	Clamping mecha	nics for TCxx072, TCxx080, LTCLHP080-X illuminators and PCxx030XS
	LTSCHP series	
High-perfo	ormance replaceme	nt LED modules
LTSCHP1W-	·B	Replacement LED module, blue
inter and a second	PS series	
an Okura	Power supplies	
RT-SDR-120	)-24	24VDC DIN rail power supply
	CB series	
	Cables	
CB244P150	0 Power cable	, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels
CB244P150	OL Power cable	, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels
	CMT series	
Precision a	alignment mechani	cs for lenses
CMTH080	Precision al	ignment mechanics for telecentric optics 080
	LTIC series	
( interest		
	LED lighting contr	ollers
LTIC1CH-A1	-4	Analogue lighting controller unit, 4A, 24V
LTIC1CH-D1	1-4	Digital lighting controller unit, 4A, 24V
LTICOBUL1	000CH1-24VUSTB	24VDC analog lighting controller 1 channel, UK power cord, Illumination cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m
LTICOBUL1	000CH1-24VEUTB	24VDC analog lighting controller 1 channel, UK power cord, Illumination
		cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m