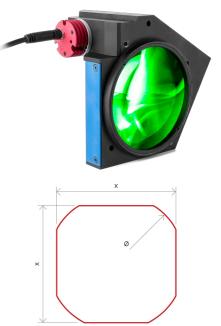


LTCLCR080-G

Telecentric CORE illuminator, beam dimensions \emptyset = 98; x = 90, green

SPECIFICATIONS

Minimum beam shape dimension (7)	(mm)	Ø = 98; x = 90
Working distance range	(mm)	150 - 300
Light color, peak wavelength (5)		green, 520 nn
Electrical specifications		
Device power ratings		
DC voltage minimum(1)	(V)	12
DC voltage maximum(1)	(V)	24
Power consumption	(W)	< 2.5
Max LED forward current (2)	(mA)	350
LED power ratings		
Forward voltage (typical) (3)	(V)	3.3
Forward voltage (max) (3)	(V)	4.00
Max pulse current (4)	(mA)	2000



Mechanical specifications

A	(mm)	119
В	(mm)	145
C (6)	(mm)	198
Mass	(g)	2919

Risk group 1

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.

Minimum beam shape dimensions (Ø,x)

Eye safety

 Risk group according to CEI EN 62471:2010

 Last update: 2021-06-22

NOTES

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

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"

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

FCCR12080	Bi-telecentric CORE lens for 1/2" detectors, magnification 0.080 x, C-mount
FCCR23080	Bi-telecentric CORE lens for 2/3" detectors, magnification 0.110 x, C-mount
тс	SM series
3D bi-telecent	ric lenses with Scheimpflug adjustment
rcsm080	3D bi-telecentric lens with Scheimpflug adjustment
тс	ZR series
8x bi-telecentr	ric zoom lenses with motorized controls
	elecentric zoom with motorized controls, magnification 0.125x to 1x, for detectors up to
2/3	n
тс	ZRS series
Bi-	telecentric zoom lenses with motorized control
CZR072S Bi- 2/	-telecentric zoom with motorized controls, magnification 0.125x to 1x, for detectors up to 3"
🚮 🗕 тс	1MHR-TC4MHR CORE series
Co	mpact telecentric lenses for sensors up to 4/3"
FCCR1M080-C	Telecentric CORE lens for 1/1.2" detectors, magnification 0.134 x, mount C, WD=226.8
CCR2M080-C	Telecentric CORE lens for 1" detectors, magnification 0.160 x, C-mount
CCR2M080-E	Telecentric CORE lens for 1" detectors, magnification 0.160 x, M42x1 FD=16
CCR3M080-C	Telecentric CORE lens for 1.1" detectors, magnification 0.182 x, mount C, WD=226.8
CCR4M080-C	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, C-mount
CCR4M080-F	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, F-mount
CCR4M080-E	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, M42x1 FD=16
	1MHR-TC4MHR series
Telecentric ler	ises for sensors up to 4/3"
C1MHR080-C	High resolution tolesantric long for 1/1.2" detectors magnification 0.124x C mount
C2MHR080-C	
C2MHR080-F	
CZINIFIKU60-E	High resolution telecentric lens for 1" detectors, magnification 0.160x, mount M42X1 FD=16
C3MHR080-C	High resolution telecentric lens for 1.1" detectors, magnification 0.182x, C-mount
C4MHR080-C	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, C-mount
C4MHR080-F	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, F-mount
FC4MHR080-E	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, mount M42X1 FD=16
тс	16M series
Telecentric ler	ises for sensors up to 43.3 mm and 8k line scan cameras
rc16M080	Telecentric lens for 35 mm detectors, magnification 0.463 x, F-mount
rc16M080-Q	Telecentric lens for 35 mm detectors, magnification 0.463 x, mount M58x0.75 FD = 6.56
тс	12K series
Tolocontric lor	ises for sensors up to 62 mm and 12k line scan cameras
relecentric lei	

Telecentric lenses 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
C12M080	
Kigh-perf	LTSCHP series
ingii-peii	
LTSCHP1W	/-G Replacement LED module, green
LTSCHP1W	I-GZ Replacement LED module with diffuser, green
	LTDV series
	LED lighting strobe controllers
LTDV1CH-	I7V Strobe controller 1 channel variable current 5 mA - 17A
Ø	CMHOCR series
	Clamping mechanics for CORE lenses
CMHOCR0	80 Clamping mechanics for CORE telecentric lenses and illuminators TCCRxx80 and LTCLCR080-x
mana S Tra	PS series
anteres .	Power supplies
RT-SDR-12	0-24 24VDC DIN rail power supply
RT-SDR-12	CMPTCR series
Mounting	CMPTCR series plates for CORE optical benches
Mounting	CMPTCR series plates for CORE optical benches
Mounting	CMPTCR series plates for CORE optical benches
Mounting	CMPTCR series plates for CORE optical benches Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm
Mounting CMPTCROE	CMPTCR series plates for CORE optical benches Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm CB series Cables
Mounting	CMPTCR series plates for CORE optical benches Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm CB series Cables
Mounting CMPTCR08	CMPTCR series plates for CORE optical benches Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm CB series Cables D0 Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels D0 Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels
Mounting CMPTCR08 CB244P150 CB244P150 CB244P150	CMPTCR series plates for CORE optical benches 0 Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mn CB series Cables 00 Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels 00 Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels CMT series
Mounting CMPTCR08 CB244P150 CB244P150	CMPTCR series plates for CORE optical benches Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm CB series Cables D0 Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels D0 Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels
Mounting CMPTCR08 CB244P150 CB244P150 CB244P150 CB244P150 CB244P150 CB244P150 CB244P150	CMPTCR series plates for CORE optical benches Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm CB series Cables D0 Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels D0L Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels CMT series alignment mechanics for lenses
Mounting CMPTCR08 CB244P150 CB244P150 CB244P150 CB244P150 CB244P150 CB244P150 CB244P150	CMPTCR series plates for CORE optical benches Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm CB series Cables D0 Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels D0L Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels CMT series alignment mechanics for lenses
Mounting CMPTCROE CB244P150 CB244P150 CB244P150 CB244P150 CB244P150 CB244P150 CB244P150	CMPTCR series plates for CORE optical benches Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm CB series Cables D0 Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels D0 Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels CMT series alignment mechanics for lenses 30 Precision alignment mechanics for CORE telecentric optics 080 LTIC series
Mounting CMPTCROE B244P150 B244P150 B244P150 Precision	CMPTCR series plates for CORE optical benches Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm CB series Cables D0 Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels D0L Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels CMT series alignment mechanics for lenses 30 Precision alignment mechanics for CORE telecentric optics 080
Mounting CMPTCROE CB244P150 CB244P150 CB244P150 Precision Precision CMTHCROE CMTHCROE	CMPTCR series plates for CORE optical benches Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm CB series Cables Cables D0 Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels D0 Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels CMT series alignment mechanics for lenses 30 Precision alignment mechanics for CORE telecentric optics 080 LTIC series LED lighting controllers 1.4 Analogue lighting controller unit, 4A, 24V
Mounting CMPTCROE CB244P150 CB2450 CB2	CMPTCR series plates for CORE optical benches 60 Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm CB series Cables 00 Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels 00 Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels 00 Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels 00 Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels 00 Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels 01 Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels 02 CMT series alignment mechanics for lenses 80 80 Precision alignment mechanics for CORE telecentric optics 080 LTIC series LED lighting controllers 1-4 Analogue lighting controller unit, 4A, 24V 1-4 Digital lighting controller unit, 4A, 24V
Mounting CMPTCROE CB244P15/ CB24F1/ CB	CMPTCR series plates for CORE optical benches Mechanical components designed for CORE telecentric lenses and illuminators Ø 80mm CB series Cables Cables D0 Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels D0 Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels CMT series alignment mechanics for lenses 30 Precision alignment mechanics for CORE telecentric optics 080 LTIC series LED lighting controllers 1.4 Analogue lighting controller unit, 4A, 24V
CMPTCR08 CB244P15/ CB244P1	CMPTCR series plates for CORE optical benches CB series Cables Cables Co Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels CMT series alignment mechanics for lenses CMT series LED lighting controllers LED lighting controllers LED lighting controllers LED lighting controllers 24VDC analog lighting controller unit, 4A, 24V 1000CH1-24VUSTB 24VDC analog lighting controller 1 channel, UK power cord, Illuminatio cable, side A SM 3 way male connector, side B terminal blocks