

# LTCLCR048-W

Telecentric CORE illuminator, beam diameter 45 mm, white

## SPECIFICATIONS

### Optical specifications

Beam diameter	(mm)	60
Working distance range	(mm)	90 - 180
Light color, peak wavelength (5)		white

### 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)	2.78
Forward voltage (max) (3)	(V)	n.a.
Max pulse current (4)	(mA)	2000

### Mechanical specifications

A	(mm)	77
B	(mm)	106
C (6)	(mm)	162
Mass	(g)	1019

### Compatible telecentric lenses

Compatibility	TCCRxx048, CMHOCR048, CMPTCR048, TCCR2M048-x, TCCR4M048-x, TCxx048, TCxMHR048-x, TC16M048, TC16M048-Q
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## NOTES

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

## COMPATIBLE PRODUCTS



TC series  
Bi-telecentric lenses for matrix detectors up to 2/3"

TC13048	Bi-telecentric lens for 1/3" detectors, magnification 0.098 x, C-mount
TC12048	Bi-telecentric lens for 1/2" detectors, magnification 0.134 x, C-mount
TC23048	Bi-telecentric lens for 2/3" detectors, magnification 0.184 x, C-mount



TC2MHR and TC4MHR series  
High resolution telecentric lenses for large detectors up to 1.2"

TC2MHR048-C	High resolution telecentric lens for 1" detectors, magnification 0.268x, C-mount
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TC2MHR048-F	High resolution telecentric lens for 1" detectors, magnification 0.268x, F-mount
TC2MHR048-E	High resolution telecentric lens for 1" detectors, magnification 0.268x, mount M42X1 FD=16
TC4MHR048-C	High resolution telecentric lens for 1.2" detectors, magnification 0.369x, C-mount
TC4MHR048-F	High resolution telecentric lens for 1.2" detectors, magnification 0.369x, F-mount
TC4MHR048-E	High resolution telecentric lens for 1.2" detectors, magnification 0.369x, mount M42X1 FD=16



TC16M series  
Telecentric lenses for 35 mm and 4k/8k linescan cameras

TC16M048	Telecentric lens for 35 mm detectors, magnification 0.751 x, F-mount
TC16M048-Q	Telecentric lens for 35 mm detectors, magnification 0.751 x, mount M58x0.75 FD =6.56



TC CORE series  
Space saving bi-telecentric lenses

TCCR12048	Bi-telecentric CORE lens for 1/2" detectors, magnification 0.134 x, C-mount
TCCR23048	Bi-telecentric CORE lens for 2/3" detectors, magnification 0.184 x, C-mount



2MHR-TC4MHR CORE series  
Space-saving high-resolution telecentric lenses

TCCR2M048-C	Telecentric CORE lens for 1" detectors, magnification 0.268 x, C-mount
TCCR2M048-E	Telecentric CORE lens for 1" detectors, magnification 0.268 x, M42x1 FD=16
TCCR4M048-C	Telecentric CORE lens for 4/3" detectors, magnification 0.369 x, C-mount
TCCR4M048-F	Telecentric CORE lens for 4/3" detectors, magnification 0.369 x, F-mount
TCCR4M048-E	Telecentric CORE lens for 4/3" detectors, magnification 0.369 x, M42x1 FD=16



TCSM series  
3D bi-telecentric lenses with Scheimpflug adjustment

TCSM048	3D bi-telecentric lens with Scheimpflug adjustment
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CMHOCR series  
Clamping mechanics CORE series

CMHOCR048	Clamping mechanics for CORE telecentric lenses and illuminators Ø 48mm
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CMPTCR series  
Mounting plates CORE series

CMPTCR048	Mechanical components designed for CORE telecentric lenses and illuminators Ø 48mm
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