

# LTRN165IR45 | DATASHEET

# Ring LED illuminator, inner diameter 135.0mm, oblique type, IR, 850 nm





### **Mechanically fitting Opto Engineering optics**

Each lens integrates specific mechanical interfaces.

## **Specific illumination geometry**

Illumination path matches Opto Engineering lenses viewing angle and numerical aperture.

#### High performance to price ratio

Cost-effective, without quality compromises.

LTRNOB series are LED ring illuminators specifically designed for a wide range of Opto Engineering products. Especially the oblique type models perfectly fit Opto Engineering® 360° view optics.









#### **SPECIFICATIONS**

# **Lighting specifications**

Illumination area outer diameter	(mm)	164.5
Illumination area inner diameter	(mm)	134.5
Optimal working distance (Min-Max)	(mm)	30-50
Number of LED rows		1
Emission angle	(°)	45
Light color, peak wavelength		IR, 850 nm
Illuminance at min WD <sup>1</sup>	(lux)	-
Illuminance at max WD <sup>1</sup>	(lux)	_

### **Electrical specifications**

Supply voltage <sup>2</sup>	(V)	24
Current	(mA)	510
Power consumption	(W)	12.2
Estimated MTBF <sup>3</sup>	(hours)	-
Max pulse voltage <sup>4</sup>	(V)	24-48 (36 recomended)
Max pulse current <sup>5</sup>	(mA)	1530
Max duty Cycle	(%)	10
Max pulse duration	(ms)	10
Connector <sup>6</sup>		Flying leads
Cable length	(mm)	1000

## **Mechanical specifications**

Outer diameter	(mm)	175.0
Inner diameter	(mm)	135.0
Height	(mm)	36.5
Mass	(g)	560

### **Environment**

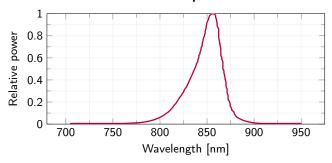
Operating temperature	(°C)	0-45
Operating humidity	(%)	20-85, non condensing

## Evo cofoty

Lye safety	
Risk group (CEI EN 62471:2010)	Exempt

- $^{1}$  ±15%.
- <sup>2</sup> Tolerance  $\pm 2\%$ .
- <sup>3</sup> At 25°C.
- Constant voltage power supply.
- <sup>5</sup> Constant current power supply.
- <sup>6</sup> Red Cable is V+, white cable is V-.

### **LED** color spectrum



#### **COMPATIBLE PRODUCTS**

### Full list of compatible products available here.

OPTICS	LIGHTING	CAMERAS	SOFTWARE	ACCESSORIES
		O Take		The same same size
A wide select	ion of innova	ative machine	e vision comp	onents.

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