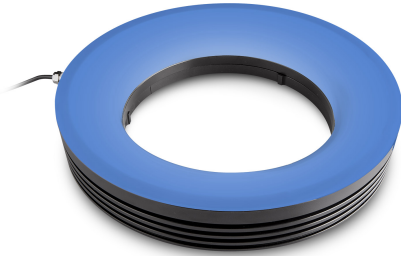# LTRN245B25 | DATASHEET

OPTO ENGINEERING®

Ring LED illuminator, inner diameter 157.0mm, oblique type, blue, 470 nm

KEY ADVANTAGES

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.

CE   UKCA   RoHS   REACH DOSSIER

SPECIFICATIONS

Lighting specifications

Illumination area outer diameter	(mm)	225
Illumination area inner diameter	(mm)	160
Optimal working distance (Min-Max)	(mm)	20-80
Number of LED rows		1
Emission angle	(°)	25
Light color, peak wavelength		blue, 470 nm
Illuminance at min WD[1]	(lux)	7950
Illuminance at max WD[1]	(lux)	6200

Electrical specifications

Supply voltage[2]	(V)	24
Current	(mA)	650
Power consumption	(W)	15.6
Estimated MTBF[3]	(hours)	> 20000
Max pulse voltage[4]	(V)	24-48 (36 recomended)
Max pulse current[5]	(mA)	1950
Max duty Cycle	(%)	10
Max pulse duration	(ms)	10
Connector[6]		Flying leads
Cable length	(mm)	1000

Mechanical specifications

Outer diameter	(mm)	245.0
Inner diameter	(mm)	157.0
Height	(mm)	48.0
Mass	(g)	1130

Environment

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

Eye safety

Risk group (CEI EN 62471:2010)	Exempt

[1] ±15%.
[2] Tolerance ±2%.
[3] At 25°C.
[4] Constant voltage power supply.
[5] Constant current power supply.
[6] Red Cable is V+, white cable is V-.

LED color spectrum
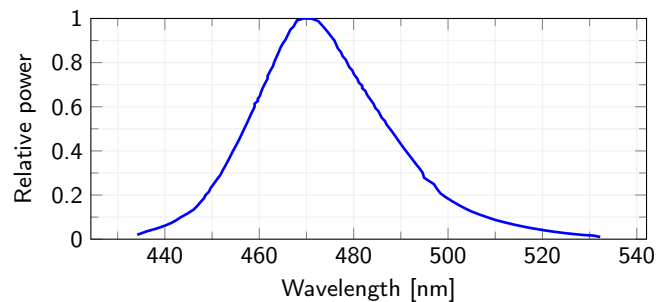
COMPATIBLE PRODUCTS

Full list of compatible products available *here*.

OPTICS	LIGHTING	CAMERAS	SOFTWARE	ACCESSORIES

A wide selection of innovative machine vision components.

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.