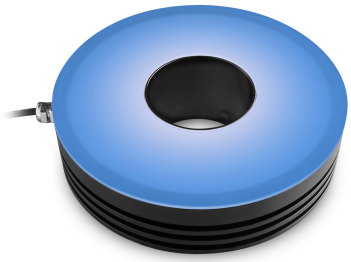
LTRN024BL | DATASHEET

OPTO ENGINEERING

Ring LED illuminator, inner diameter 44.0mm, straight 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.

LTRNST series are LED ring illuminators specifically designed for a wide range of Opto Engineering products. Especially the stray type models perfectly fit Opto Engineering® telecentric lenses.

SPECIFICATIONS

Lighting specifications

Illumination area outer diameter	(mm)	107.0
Illumination area inner diameter	(mm)	57.0
Optimal working distance (min-max)	(mm)	85-150
Number of LED rows		1
Emission angle	(°)	0
Light color, peak wavelength		blue, 470 nm
Illuminance at min WD[1]	(lux)	7600
Illuminance at max WD[1]	(lux)	3420

Electrical specifications

Supply voltage[2]	(V)	24
Current	(mA)	315
Power consumption	(W)	7.6
Estimated MTBF[3]	(hours)	> 20000
Max pulse voltage[4]	(V)	24-48 (36 recomended)
Max pulse current[5]	(mA)	945
Max duty cycle	(%)	10
Max pulse duration	(ms)	10
Connector[6]		Flying leads
Cable length	(mm)	1000

Mechanical specifications

Outer diameter	(mm)	120.6
Inner diameter	(mm)	44.0
Height	(mm)	39.6
Mass	(g)	371

Environment

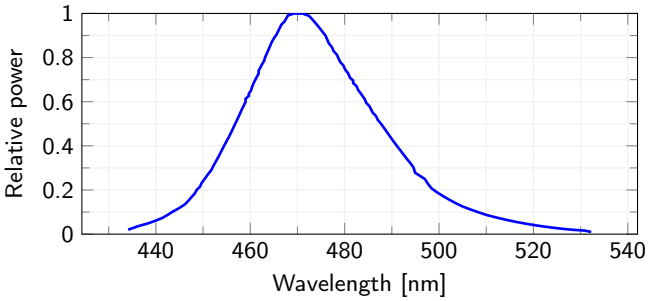
Operating temperature	(°C)	0-35
Operating humidity	(%)	20-85, non condensing

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*.

A wide selection of innovative machine vision components.