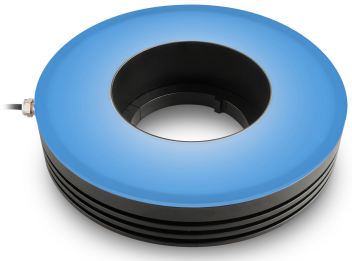
LTRN036BL | DATASHEET

OPTO ENGINEERING

Ring LED illuminator, inner diameter 61.0mm, 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)	143.0
Illumination area inner diameter	(mm)	93.0
Optimal working distance (min-max)	(mm)	160-240
Number of LED rows		1
Emission angle	(°)	0
Light color, peak wavelength		blue, 470 nm
Illuminance at min WD[1]	(lux)	3580
Illuminance at max WD[1]	(lux)	1960

Electrical specifications

Supply voltage[2]	(V)	24
Current	(mA)	434
Power consumption	(W)	10.4
Estimated MTBF[3]	(hours)	> 20000
Max pulse voltage[4]	(V)	24-48 (36 recomended)
Max pulse current[5]	(mA)	1302
Max duty cycle	(%)	10
Max pulse duration	(ms)	10
Connector[6]		Flying leads
Cable length	(mm)	1000

Mechanical specifications

Outer diameter	(mm)	156.6
Inner diameter	(mm)	61.0
Height	(mm)	39.6
Mass	(g)	513

Environment

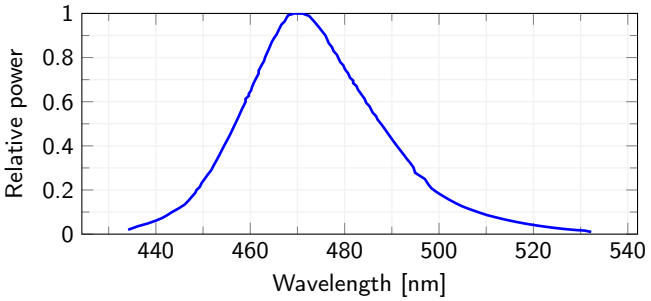
Operating temperature	(°C)	0-35
Operating humidity	(%)	20-85, non condensing

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.

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.