

LTRN 050 W45

Ring LED illuminator, white

Optical specifications

Light color, peak wavelength		white, 6300 K
Optimal working distance	(mm)	20-80
Illuminance at minimum working distance	(lux)	14000
Illuminance at maximum working distance	(lux)	3000

Lighting area diameter

Outer	(mm)	19
Inner	(mm)	53.5

Electrical specifications

Number of LED rows		2
--------------------	--	---

Continuous mode 1

Supply voltage	(V)	24
Current	(mA)	105
Power consumption	W	2.52

Pulsed mode 2

Supply voltage 3	(V)	24-48
Pulse current	(mA)	700
Max. trigger pulse duration	(ms)	10
Duty cycle	(%)	0-10

Mechanical specifications

Outer diameter	(mm)	53.5
Inner diameter	(mm)	15.2
Height	(mm)	18
Mass	(g)	45
Cooling method		Attached to machine part for better heat dissipation

Compatibility

Compatible products	PCPW0xx, MCxxxX, TCCAGExx048
---------------------	------------------------------

LTRN 050 W45 is a small LED ring illuminator compatible with different Opto Engineering products and suitable for a variety of inspections. This illuminator is also perfectly suitable for illuminating the inner sides of a cavity imaged by a Polyview lens ^a.

NOTES

1. Lifespan: 20.000 hours (drop to 50% intensity) at 25 °C.
2. Pulse width <= 10 ms, 0-10% duty cycle.
3. Recommended at 36 V.

- a. When using LTRN050W45 ring LED illuminator in combination with PCPW0xx optics some vignetting occurs (up to ≈ 16% of the total FOV). Image on camera detector will appear as depicted in the schematics. Use the adapter provided with PCPW0xx to securely clamp LTRN050W45.

