



Innovative Photonic Solutions

5390

Mini Drivers

KEY FEATURES

- LED Fiberoptic Lightsource
- Illuminates Standard Fiberoptics
- Long Lifetime (50,000 hours)
- Low Cost, High Intensity
- Compact Size, Low Heat
- Robust Industrial Design
- Multiple Wavelength Options



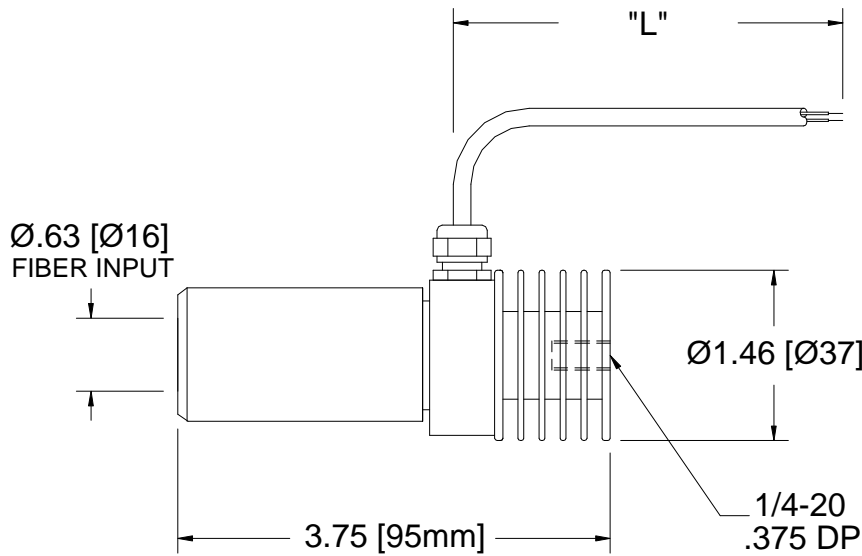
Compact Fiberoptic Lightsource

Using the most sophisticated solid state photon generating technologies, the **5390** series LED lightsources are designed to power our existing line of fiberoptic components. These compact, robust fiberoptic lightsources provide high intensity and give off very little heat. They are well suited for industrial applications where cost, size and reliability are critical. These compact units provide outputs similar to those of standard 150W tungsten halogen based systems, and offer lifetimes in excess of 50,000 hours. They can be used to retrofit existing applications, and are available in a wide range of wavelengths (including broadband white) and can be configured to run in either continuous or strobed modes. Custom wavelengths and cable lengths are available.

APPLICATIONS

- Machine Vision
- Biotechnology
- Medical Diagnostics
- On-line Sensors
- Microscopy
- Pharmaceutical

Detail Drawing



PART NUMBER

5390 - WWW - LL

LL	Length (m)
- 01	1m (39")
- 02	2m (78")
- 03	3m (118")

WWW	Wavelength, Color
-455	455 nm, Deep Blue
-470	470 nm, Blue
-505	505 nm, Light Blue
-530	530 nm, Green
-590	590 nm, Amber
-617	617 nm, Orange/Red
-627	627 nm, Red
-WHT	5500K, White

NOTE: Specifications May Change without Notice

DXF File Available

Technical Specifications

Average Lifetime

Continuous: 50,000 Hours

Environmental

Temperature: 0 to 35C
Relative Humidity: 0 to 95%

Mechanical

Fiberoptic Mount: QuickPress™
(No Tools or Set Screws Required)
Mini Driver Mount: 1/4-20

Electrical

455-530nm 0 to 700mA
590-627nm, WHT 0 to 1000mA

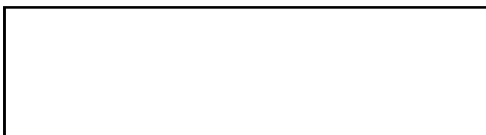
Output Comparisons (75mm Distance)

Wavelength	Photometric (lux)	Radiometric (mW/cm ²)	Silimetric (sW/cm ²) ⁺
470 nm	1,500	4.6	2.1
530 nm	4,000	2.3	1.0
627 nm	3,850	4.7	2.3
White	6,500	4.3	1.9
150W TH*	5,500	4.3	1.9

* Comparative output of a standard 150W Tungsten Halogen lightsource (80% drive), using a Ø6mm Fiber optic Lightguide, projected at a distance of 75mm

+ Artificial units developed by Illumination Technologies to more accurately predict the relative output signals generated by various illumination devices on silicon based detector systems, including CCD and CMOS cameras. For more detailed information on this topic visit our website and download Tech Note #125 - "Correct Measurement Units"

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