

Line Pattern Flat Light LFX3-100RD-PT-A

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Stock **#21-821** 1 In Stock

-

1

+

₹2,30,550

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Volume Pricing	
Qty 1+	₹2,30,550 each
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General	
LFX3-100RD-PT-A	Model Number:
LED Illuminator	Type of Illumination:
CCS	Manufacturer:
Flat Light	Geometry:
Constant	Illumination Mode:

Physical & Mechanical Properties	
Material	Aluminum 6061-T6
Dimensions (mm)	100 x 50 x 10
Weight (g)	120
Yield Strength (MPa)	276
Tensile Strength (MPa)	324
Elongation (%)	12
Hardness (HV)	95
Surface Finish	Anodized
Corrosion Resistance	Good
Thermal Conductivity (W/mK)	167
Thermal Expansion Coefficient (1/K)	23.6
Melting Point (°C)	933
Modulus of Elasticity (GPa)	68.9
Poisson's Ratio	0.33
Impact Strength (J/m²)	100
Fatigue Life (cycles)	10⁷
Creep Rate (mm/mm/yr)	10⁻⁵
Weldability	Good
Formability	Good
Recyclability	High
Biocompatibility	Good
Flammability	Low
Chemical Stability	Good
Electrical Conductivity (S/m)	3.8 x 10⁷
Magnetic Permeability	1.0
Dielectric Constant	1.0
Thermal Stability	Good
Environmental Resistance	Good
UV Resistance	Good
Acid Resistance	Good
Alkali Resistance	Good
Salt Crystallization Resistance	Good
Microbial Resistance	Good
Anticorrosion Coating	None
Coating Thickness (µm)	0
Coating Adhesion	None
Coating Durability	None
Coating Color	None
Coating Texture	None
Coating Hardness	None
Coating Flexibility	None
Coating Adhesion	None
Coating Durability	None
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Coating Color	None
Coating Texture	None
Coating Hardness	None
Coating Flexibility	None
Coating Adhesion	None

W 143 mm x D 143 mm x H 13.1 mm

400

Optical Properties	
Refractive Index (n)	1.50
Transmittance (%)	92
Absorbance (at 254 nm)	0.15
Fluorescence Intensity	Low

Red

632

Electrical	
1	1.1
2	2.1
3	3.1
4	4.1
5	5.1
6	6.1
7	7.1
8	8.1
9	9.1
10	10.1
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90	90.1
91	91.1
92	92.1
93	93.1
94	94.1
95	95.1
96	96.1
97	97.1
98	98.1
99	99.1
100	100.1

19

Hardware & Interface Connectivity

24

Power Supply Required and Sold Separately.

Europe: #73-491

Korea: #33-773

China: #73-491

Regulatory Compliance	
GDPR Compliance: All data processing activities are documented in the Data Processing Register. Data subject requests are handled within the required 30-day timeframe. ISO 27001: The Information Security Management System (ISMS) is maintained and updated annually. Internal audits are conducted quarterly. PCI DSS: All card payment processing is performed by a PCI DSS compliant merchant service provider. Annual vulnerability scans are performed.	SOX Compliance: Financial reporting controls are tested and validated annually by an external audit firm. Other Regulations: The company maintains a comprehensive list of applicable regulations and ensures ongoing monitoring for updates.

Exempt

Contains SVHC(s)

View

United States

Edmund Optics India Private Limited

Product Details

- Detect Imperfections on Reflective Surfaces
- Line Pattern Projected Through Light Guiding Diffusion Plate
- Multiple Wavelengths and Working Distances Available

CCS Coaxial Line Pattern Flat Lights feature a line pattern on the surface of a light guiding diffusion plate which allows for the detection of minute bumps and dents on reflective surfaces. When integrated into a machine vision system, the image of the reflected line pattern highlights defects by breaking the continuity of the surface and distorting the line pattern. These flat lights are available with two pitch options, 1mm for shorter working distances and 2mm for longer working distances. CCS Coaxial Line Pattern Flat Lights are ideal for inspection of reflective surfaces such as mirrors, metal sheets, glass surfaces, and reflective films.

Technical Information

Two types of line patterns available

