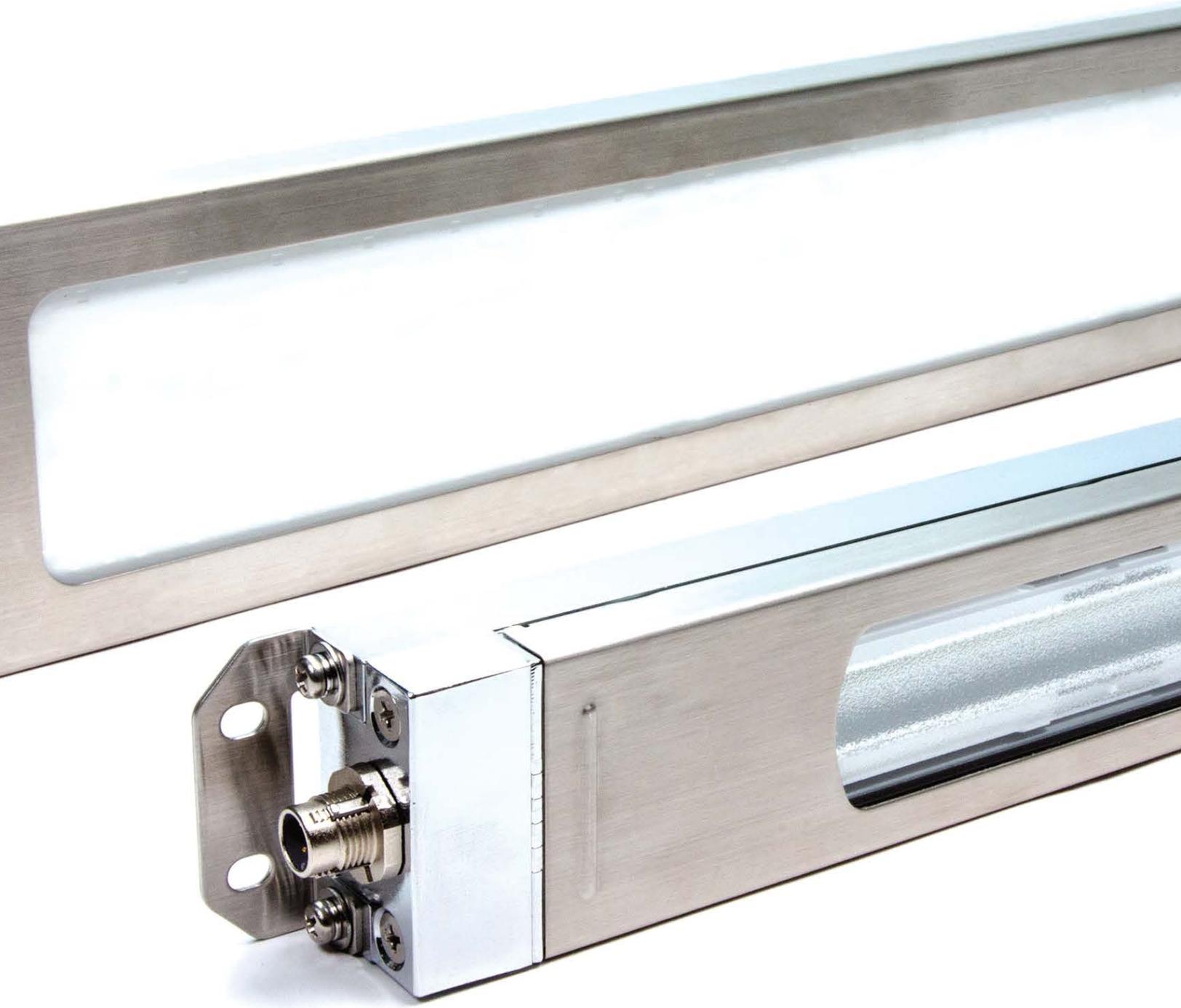




Think Automation and beyond...

LUMIFA LED Lighting



IDEC CORPORATION



LUMIFA LF1B-N

- Industrial Machines
- Semiconductor Equipment
- Control Panels



LF1B-N Series

The LF1B-N series is available in six lengths, two covers (transparent or white) and six distinct colors—cool white, warm white, yellow, red, blue and green—making it a flexible lighting solution for control panels, industrial machines, manufacturing lines, work stations and more. These compact, energy-efficient units are low-maintenance and last for years, contributing to overall cost savings.

- Compact size: 27.5 mm wide x 16 mm high
- Six lengths: 134, 210, 330, 830 and 1,080 mm
- Vibration- and shock-resistant
- Yellow light ideal for photosensitive materials
- IP65-rated for use in wet environments

Optical Specifications



ILLUMINATION COLOR		COOL WHITE		WARM WHITE		YELLOW		RED		GREEN		BLUE	
COVER		Clear	White	Clear	White	Clear	White	Clear	White	Clear	White	Clear	White
Color Temperature/ Dominant Wavelength (typ.)		6500K		3000K		590nm		620nm		525nm		455nm	
Reference Brightness (typ.) at 0.5m, lx	LF1B-NA	95	85	90	80	20	18	20	18	30	27	10	9
	LF1B-NB	240	215	230	2100	40	36	40	36	60	55	20	18
	LF1B-NC	455	410	440	395	75	65	75	65	110	100	30	27
	LF1B-ND	840	750	815	725	125	110	125	110	190	170	50	45
	LF1B-NE	1100	995	1065	960	160	145	160	145	260	235	60	55
	LF1B-NF	1350	1210	1300	1170	180	160	180	160	300	270	80	70

LED modules and illumination units may vary in color and brilliance. Luminous flux, color temperature, and illuminance values shown are typical.

Part Number Structure (use for interpreting part numbers only)

LF1B - NC 3 P - 2 THWW2 - 3M

<p>LENGTH</p> <p>A: 134mm (5.28") D: 580mm (22.83")</p> <p>B: 210mm (8.27") E: 830mm (32.68")</p> <p>C: 330mm (12.99") F: 1,080mm (42.52")</p>	<p>COVER</p> <p>3: Clear</p> <p>4: White</p>	<p>ILLUMINATION COLOR</p> <p>THWW2: Cool White SHR2: Red</p> <p>TLWW2: Warm White THS2: Blue</p> <p>SHY2: Yellow SHG2: Green</p>	<p>CABLE LENGTH</p> <p>3M: 3m</p>
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LUMIFA LF1D & LF2D

- Machine Tools
- Food & Beverage Processing Equipment
- Pharmaceutical & Chemical
- Automotive



LF1D & LF2D Series

Thanks to their rugged construction and high brightness levels up to 3,000 lumens, the LF1D and LF2D series are ideal for machine tools, food and beverage processing equipment and automotive, pharmaceutical and chemical applications. With their IP67, IP67F, IP67G and IP69K ratings, stainless-steel cover and diecast aluminum housing, they can even be used in the presence of high-pressure, high-temperature washdown.

MINI (LF1D-C)

- Compact size: 100 x 50 x 25 mm
- Single LED module design eliminates multiple shadows

SLIM & WIDE (LF1D/2D-EN, EH, FH)

- Durable polycarbonate or reinforced glass options
- No glare, shadows or strip effect
- M12 Quick Connect available
- Surface or recessed mount options

LONG (LF1D-H/J)

- Two lengths: 365 and 510 mm
- Extremely bright illumination—2,000 lumens (LF1D-H) or 3,000 lumens (LF1D-J)
- M12 Quick Disconnect option (Pig Tail)

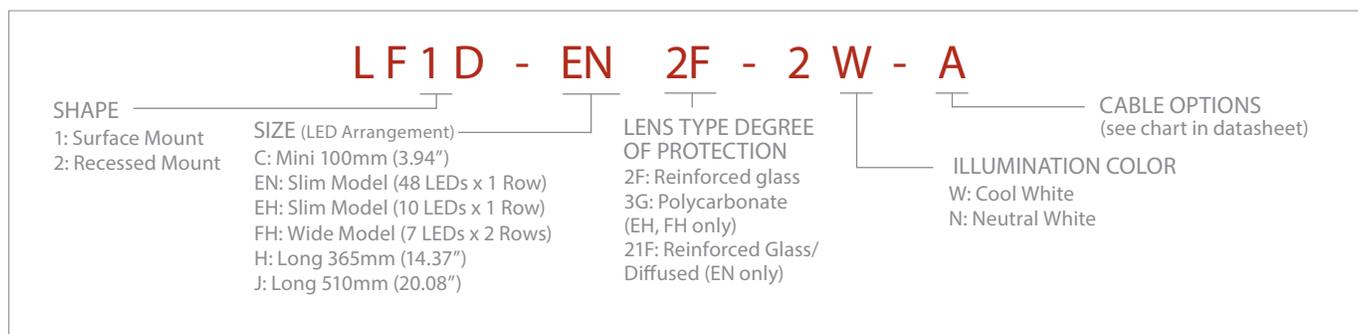
Optical Specifications



MODEL	MINI	SLIM		WIDE	LONG	
	LF1D-C	LF1D/2D-EN	LF1D/2D-EH	LF1D/2D-FH	LF1D-H	LF1D-J
Illumination Color	Cool White				Neutral White	
Total Luminous Flux, lm	560	1530	1260	1540	2000	3000
Color Temperature, k	5700				4700	
Reference Illuminance at 1.0m, lx	180	1700	1800	1500	560	840

LED modules and illumination units may vary in color and brilliance. Luminous flux, color temperature, and illuminance values shown are typical.

Part Number Structure (use for interpreting part numbers only)





LUMIFA LED APPLICATIONS

- Food & beverage processing machines
- Packaging machines
- Semiconductor manufacturing equipment
- Machine tools
- Automotive manufacturing machines
- Oil & gas (other hazardous locations)
- Control panels
- Printing machines
- Production systems
- Test equipment
- Solar power equipment
- Cosmetic manufacturing equipment
- Chemical manufacturing equipment
- Show cases
- Foundries
- Photosensitive devices
- Advertising displays
- Assembly & robotics
- Work stations

Selection Guide

LF1B-N						
Protection Class	IP65					
Cover Options	Clear/White					
Application List	Industrial Machines, Machine Tool, Plant Equipment, Test Equipment, Control Panel, Food Processing Machines, Cosmetic Plant, Chemical Plant, Show Cases, Semiconductor Manufacturing Equipment, Ic Foundry, Photosensitive Material, Darkroom Experiment, Advertising Display, Light Ornaments					
Illumination Color ¹	Cool White (6500K)	Warm White (3000K)	Blue (455nm)	Yellow (590nm)	Red (620nm)	Green (525nm)
Reference Illumination ²	LF1B-NA: 95lx LF1B-NF: 1350lx	LF1B-NA:90lx LF1B-NF: 1300lx	LF1B-NA: 10lx LF1B-NF: 80lx	LF1B-NA: 20lx LF1B-NF: 180lx		LF1B-NA: 30lx LF1B-NF: 300lx
Power Consumption	LF1B-NA: 1.5W LF1B-NB: 2.9W LF1B-NC: 4.4W LF1B-ND: 8.7W LF1B-NE: 13.0W LF1B-NF: 17.3W			LF1B-NA: 1.0W LF1B-NB: 2.0W LF1B-NC: 2.9W LF1B-ND: 5.8W LF1B-NE: 8.7W LF1B-NF: 11.6W		
Operating Voltage	24V DC					

LF2B			
Protection Class	IP65		
Cover Options	Clear White		
Application List	Various Machines And Systems, Control Panel, Manufacturing Lines, Work Stations		
Illumination Color ¹	Cool White (6500K)		
Reference Illumination ²	<table border="0"> <tr> <td>LF2B-B: 290lx LF2B-C: 540lx LF2B-D: 1065lx LF2B-E: 1385lx LF2B-F: 1520lx</td> <td>LF2B-B: 265lx LF2B-C: 500lx LF2B-D: 980lx LF2B-E: 1275lx LF2B-F: 1400lx</td> </tr> </table>	LF2B-B: 290lx LF2B-C: 540lx LF2B-D: 1065lx LF2B-E: 1385lx LF2B-F: 1520lx	LF2B-B: 265lx LF2B-C: 500lx LF2B-D: 980lx LF2B-E: 1275lx LF2B-F: 1400lx
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Power Consumption	<table border="0"> <tr> <td>LF2B-B: 2.6W LF2B-C: 4.9W LF2B-D: 10.6W</td> <td>LF2B-B: 2.2W LF2B-C: 4.4W LF2B-D: 7.8W LF2B-E: 12.2W LF2B-F: 15.9W</td> </tr> </table>	LF2B-B: 2.6W LF2B-C: 4.9W LF2B-D: 10.6W	LF2B-B: 2.2W LF2B-C: 4.4W LF2B-D: 7.8W LF2B-E: 12.2W LF2B-F: 15.9W
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Operating Voltage	12/24V DC 100 to 240V AC		

1. K: Color Temperature (typ.), mm: Dominant Wavelength (typ.).

2. Directly below at 0.5m unless otherwise noted.



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