

# LUMIFA LF2B

Control Panels • Industrial Equipment • Manufacturing Lines & Work Stations



## PRODUCT DESCRIPTION

The LF2B features a rugged, slim design for industrial applications and installations where space is limited. Its high illuminance, snap-in mounting brackets, range of input voltages, DC-battery compatibility and IP65 rating make this series ideal for a wide variety of lighting applications, from control panels to industrial equipment in wet environments.

## KEY FEATURES

- Slim size: 40 mm wide x 29 mm high
- Five lengths: 210, 330, 580, 830 and 1,080 mm
- Clear or white cover options
- 100-240V AC or 12/24V DC rated voltages
- Mounting brackets enable one-step installation process in tight spaces
- IP65-rated for use in wet environments

## GENERAL SPECIFICATIONS

| Model                                                            |               | LF2B-B<br>(210mm)                                                                                                               | LF2B-C<br>(330mm) | LF2B-D<br>(580mm) | LF2B-E<br>(830mm) | LF2B-F<br>(1,080mm) |
|------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|---------------------|
| Rated Voltage                                                    |               | 100-240V AC 50/60Hz (Voltage range: 90-264V AC)                                                                                 |                   |                   |                   |                     |
|                                                                  |               | 12V/24V DC (Voltage range: 10.8-30V DC)                                                                                         |                   |                   |                   |                     |
| Input Current (typ.)<br>(at the rated voltage) <sup>1</sup> , mA | AC100~240V AC | 28                                                                                                                              | 57                | 80                | 128               | 165                 |
|                                                                  | 12V/24V DC    | 215                                                                                                                             | 409               | 880               | —                 |                     |
| Rated Power<br>(at the rated voltage), W                         | 100~240V AC   | 2.2                                                                                                                             | 4.4               | 7.8               | 12.2              | 15.9                |
|                                                                  | 12V/24V DC    | 2.6                                                                                                                             | 4.9               | 10.6              | —                 |                     |
| Insulation Resistance                                            |               | 100MΩ minimum (500V DC megger)                                                                                                  |                   |                   |                   |                     |
| Dielectric Strength                                              | 100~240V AC   | 2,000V AC, 1 minute (between live and dead parts)                                                                               |                   |                   |                   |                     |
|                                                                  | 12V/24V DC    | 1,000V AC, 1 minute (between live and dead parts)                                                                               |                   |                   | —                 |                     |
| Vibration Resistance                                             |               | Frequency 5 - 55Hz, Amplitude 0.17mm, speed acceleration 20m/s <sup>2</sup> , 3 directions, 2 hours each                        |                   |                   |                   |                     |
| Shock Resistance                                                 |               | 300m/s <sup>2</sup> , 6 directions, 5 times each                                                                                |                   |                   |                   |                     |
| Operating Temperature                                            |               | -30 to +55°C (no freezing)                                                                                                      |                   |                   |                   |                     |
| Operating Humidity                                               |               | 45 to 85% RH (no condensation)                                                                                                  |                   |                   |                   |                     |
| Storage Temperature                                              |               | -35 to +70°C (no freezing)                                                                                                      |                   |                   |                   |                     |
| Operating Atmosphere                                             |               | No corrosive gases                                                                                                              |                   |                   |                   |                     |
| Life <sup>2</sup>                                                |               | 40,000 hours (Ta = 25°C) (The total illumination life in which the brightness maintains a minimum of 70% of the initial value.) |                   |                   |                   |                     |
| Degree of Protection                                             |               | IP65 (IEC 60529)                                                                                                                |                   |                   |                   |                     |
| Material                                                         |               | Front Cover: Polycarbonate Resin; End Cover/Cable Gland: Polyamide Resin; Cable: PVC sheathing (24AWG)                          |                   |                   |                   |                     |
| Weight (approx.), g                                              | 100~240V AC   | 200                                                                                                                             | 255               | 400               | 520               | 645                 |
|                                                                  | 12V/24V DC    | 175                                                                                                                             | 235               | 370               | —                 |                     |

1. 100V AC input for 100~240V AC; 12V DC input for 12V/24V DC.  
2. LED life depends on the operating environment.



\*UL applies for DC units only.

## LED OPTICAL SPECIFICATIONS

| Model                                                      | LF2B-B<br>(210mm) |       | LF2B-C<br>(330mm) |       | LF2B-D<br>(580mm) |       | LF2B-E<br>(830mm) |       | LF2B-F<br>(1,080mm) |       |
|------------------------------------------------------------|-------------------|-------|-------------------|-------|-------------------|-------|-------------------|-------|---------------------|-------|
| Illumination Color                                         | Cool White        |       |                   |       |                   |       |                   |       |                     |       |
| Color Temperature, K                                       | 6500              |       |                   |       |                   |       |                   |       |                     |       |
| Cover                                                      | Clear             | White | Clear             | White | Clear             | White | Clear             | White | Clear               | White |
| Luminous Flux (typ.), lm                                   | 235               | 215   | 465               | 425   | 935               | 860   | 1380              | 1270  | 1860                | 1710  |
| Reference Illuminance (typ.)<br>at 0.5m directly below, lx | 290               | 265   | 540               | 500   | 1065              | 980   | 1385              | 1275  | 1520                | 1400  |

LED modules and illumination units may vary in illumination colors and illuminance.

## PART NUMBERS

|                    |                                                                                    |  |                                                                                     |  |
|--------------------|------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
| Illumination Color | Cool White                                                                         |  |                                                                                     |  |
| Cover              | Clear Cover                                                                        |  | White Cover                                                                         |  |
|                    |  |  |  |  |
| Rated Voltage      | 100 - 240V AC                                                                      |  | 12V/24V DC                                                                          |  |
| LF2B-B (210mm)     | LF2B-B3P-ATHWW2-1M                                                                 |  | LF2B-B4P-ATHWW2-1M                                                                  |  |
| LF2B-C (330mm)     | LF2B-C3P-ATHWW2-1M                                                                 |  | LF2B-C4P-ATHWW2-1M                                                                  |  |
| LF2B-D (580mm)     | LF2B-D3P-ATHWW2-1M                                                                 |  | LF2B-D4P-ATHWW2-1M                                                                  |  |
| LF2B-E (830mm)     | LF2B-E3P-ATHWW2-1M                                                                 |  | LF2B-E4P-ATHWW2-1M                                                                  |  |
| LF2B-F (1,080mm)   | LF2B-F3P-ATHWW2-1M                                                                 |  | LF2B-F4P-ATHWW2-1M                                                                  |  |

## PART NUMBER STRUCTURE (USE FOR INTERPRETING PART NUMBERS ONLY)

**LF2B - C3P - ATHWW2 - 1M**

### Length

**B:** 210mm (8.27")  
**C:** 330mm (12.99")  
**D:** 580mm (22.83")  
**E:** 830mm (32.68")  
**F:** 1,080mm (42.52")

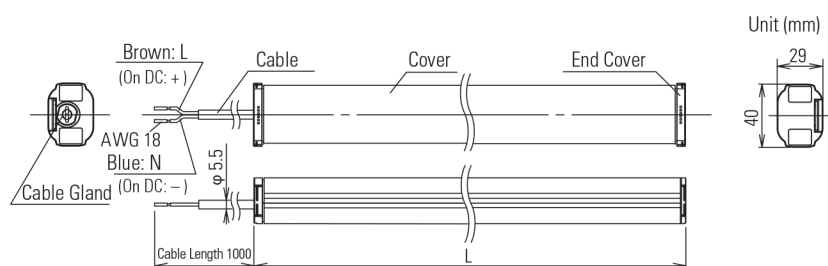
**Cover**  
**3:** Clear  
**4:** White

**Rated Voltage**  
**A:** 100 - 240 VAC  
**B:** 12V/24V DC

### DC12V/24V Length

**B:** (210mm)  
**C:** (330mm)  
**D:** (580mm) only

## DIMENSIONS (mm)

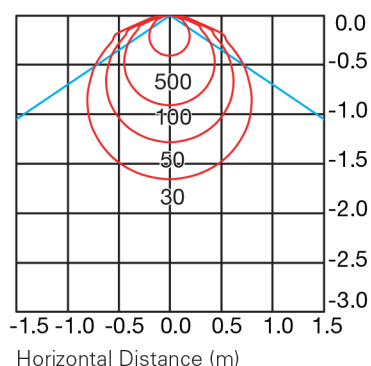


| Part Number | L (mm) | Inches |
|-------------|--------|--------|
| LF2B-B      | 210    | 8.27   |
| LF2B-C      | 330    | 12.99  |
| LF2B-D      | 580    | 22.83  |
| LF2B-E      | 830    | 32.68  |
| LF2B-F      | 1,080  | 42.52  |

## ILLUMINANCE DISTRIBUTION at 0.5m (lx)

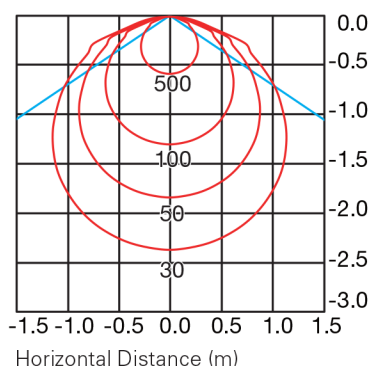
LF2B-B (210mm)

Direct Horizontal Distance Height (m)



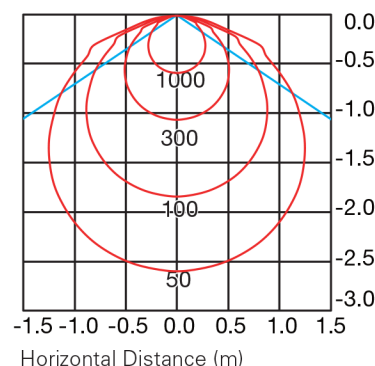
LF2B-C (330mm)

Direct Horizontal Distance Height (m)



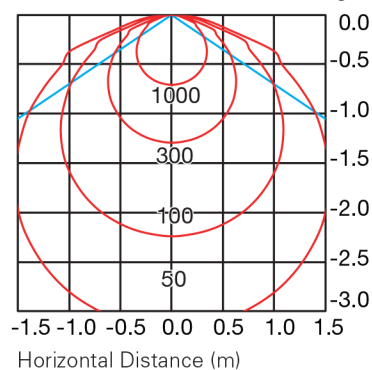
LF2B-D (580mm)

Direct Horizontal Distance Height (m)



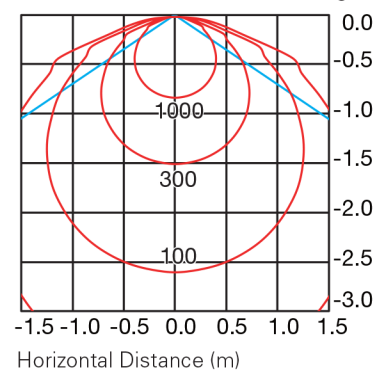
LF2B-E (830mm)

Direct Horizontal Distance Height (m)



LF2B-F (1,080mm)

Direct Horizontal Distance Height (m)



## ACCESSORIES

| Item                       | Part No.   | Notes                                   |
|----------------------------|------------|-----------------------------------------|
| Mounting Bracket (U-shape) | LF9Z-1SB21 | Comes with the product (see note below) |
| Mounting Bracket (L-shape) | LF9Z-1SB22 | Order separately                        |

LF2B-B, -C, and -D include 2 brackets each; LF2B-E 3 brackets, and LF2B-F 4 brackets.