

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 (210mm) | LF2B-C (330mm) | LF2B-D (580mm) | LF2B-E (830mm) | LF2B-F (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.) (at the rated voltage) ¹ , mA | AC100~240V AC | 28 | 57 | 80 | 128 | 165 |
| | 12V/24V DC | 215 | 409 | 880 | – | – |
| Rated Power (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 ² , 3 directions, 2 hours each | | | | |
| Shock Resistance | | 300m/s ² , 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 ² | | 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 (210mm) | | LF2B-C (330mm) | | LF2B-D (580mm) | | LF2B-E (830mm) | | LF2B-F (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.) 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-B3P-BTHWW2-1M | LF2B-B4P-ATHWW2-1M | LF2B-B4P-BTHWW2-1M |
| LF2B-C (330mm) | LF2B-C3P-ATHWW2-1M | LF2B-C3P-BTHWW2-1M | LF2B-C4P-ATHWW2-1M | LF2B-C4P-BTHWW2-1M |
| LF2B-D (580mm) | LF2B-D3P-ATHWW2-1M | LF2B-D3P-BTHWW2-1M | LF2B-D4P-ATHWW2-1M | LF2B-D4P-BTHWW2-1M |
| 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")

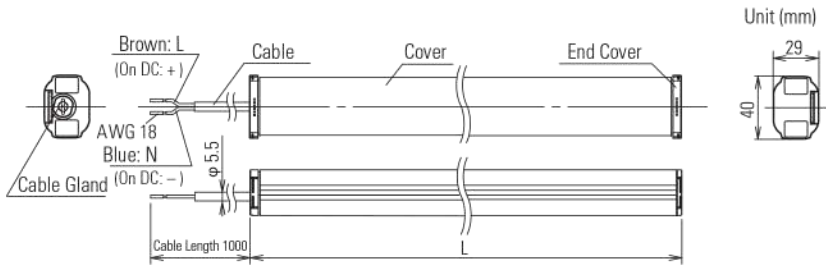
Cover
3: Clear
4: White

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

DC12V/24V Length

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

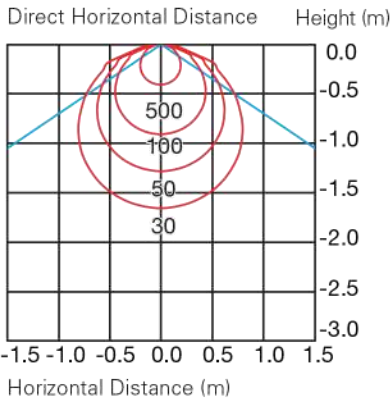
DIMENSIONS (mm)



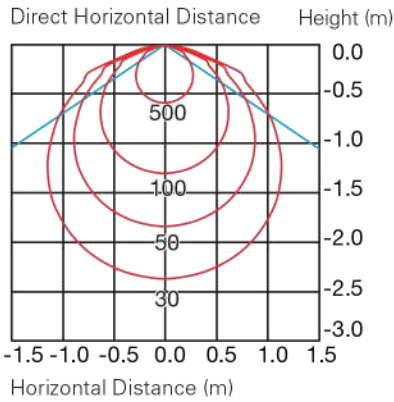
| Part Number | L (mm) | Inches |
|-------------|--------|--------|
| LF2B-B | 210 | 8.27 |
| LF2B-C | 330 | 12.99 |
| LF2B-D | 580 | 22.83 |
| LF2B-E | 830 | 32.68 |
| LF2B-F | 1,080 | 42.52 |

ILLUMINANCE DISTRIBUTION at 0.5m (lx)

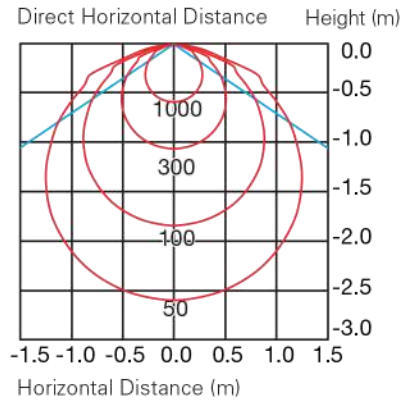
LF2B-B (210mm)



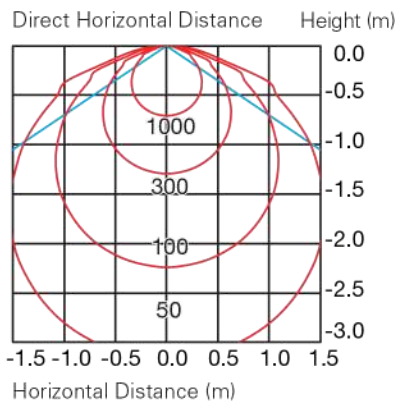
LF2B-C (330mm)



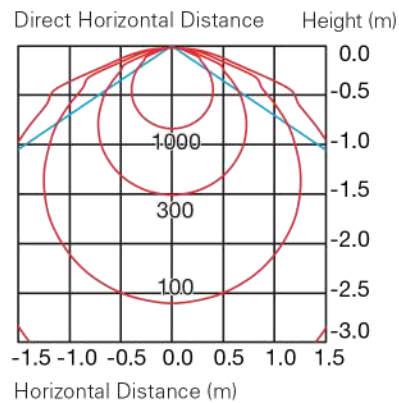
LF2B-D (580mm)



LF2B-E (830mm)



LF2B-F (1,080mm)



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.