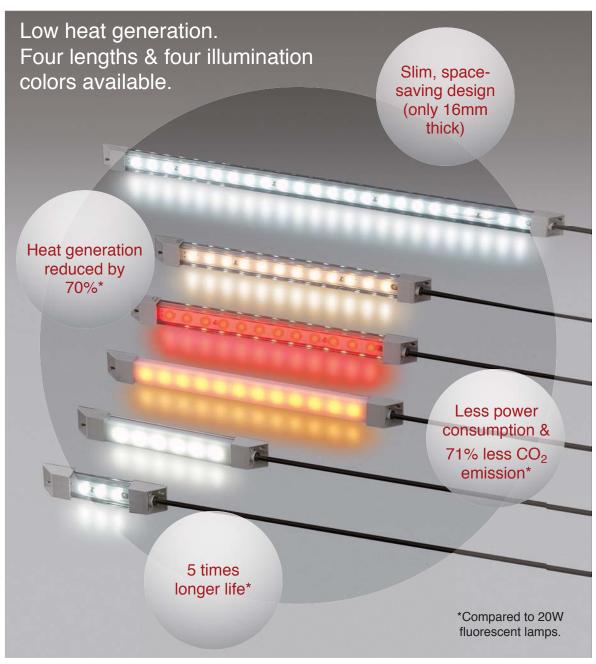
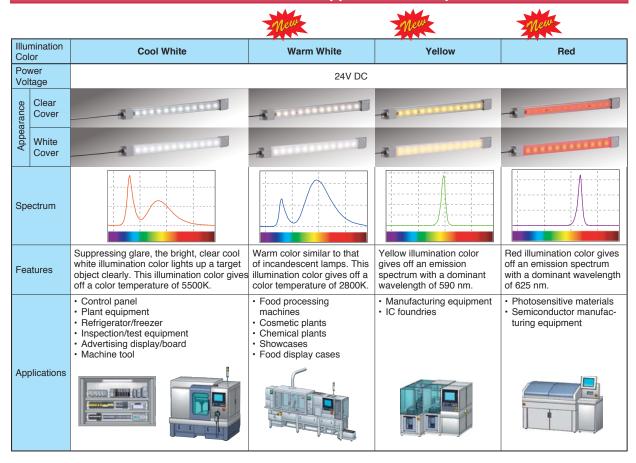


LF1B Series





Illumination Colors & Application Examples



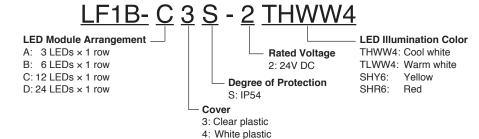
Features

- · Brightness: 62.5 Lumens/Watt
- · Low heat generation.
- · Less energy usage, longer operation life, smaller mounting space, and no electrical noise.
- 71% reduction of power and CO₂ emission when compared to 20W fluorescent lamps (LF1B-C/D)
- Thin and slim style fits into compact spaces.
- Two cover colors: clear and white (diffused light)
- Cool white, warm white, yellow and red illumination colors available.
- UL Listed & IP54 protection against dust and water splash (IEC 60529)





Part No. Development



LED Optics Specifications

Illumination Color		Cool White	Warm White	Yellow	Red			
Luminous Intensity (typ.) (Single LED module)		5000 mcd	4500 mcd	2300 mcd	1800 mcd			
Color Temperature (typ.)/Dominant Wavelength (typ.)		5500K	2800K	590 nm	625 nm			
Reference Illuminance (typ.) at 500 mm (clear cover)	3 LEDs x 1 row	90 lx	60 lx	20 lx	20 lx			
	at 6 LEDs × 1 row	170 lx	110 lx	40 lx	40 lx			
	12 LEDs x 1 row	330 lx	200 lx	75 lx	75 lx			
	24 LEDs × 1 row	560 lx	350 lx	125 lx	125 lx			

Note: Illumination colors and illuminance may vary. Specifications shown in the above table are typical values and may vary depending upon actual environment.

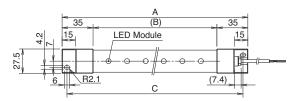


Performance Specifications

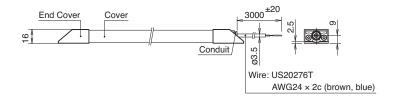
Rated Voltage		24V DC (non-polarized)			
	LF1B-A	30mA			
Input Current (typ.) (at the rated voltage)	LF1B-B	60mA			
	LF1B-C	120mA			
	LF1B-D	240mA			
Power Consumption (typ.) (at the rated voltage)	LF1B-A	0.8W			
	LF1B-B	1.5W			
	LF1B-C	2.9W			
	LF1B-D	5.8W			
Insulation Resistance		100MΩ minimum (500V DC megger)			
Dielectric Strength		1000V AC, 1 minute (between live and dead parts)			
Vibration Resistance (damage limits)		Frequency: 5 to 55 Hz Amplitude: 0.5 mm			
Shock Resistance (damage limits)		1000m/s ²			
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 gas			
Life		40000 hours (The total illumination duration in which the luminance maintains a minimum of 70% of the initial value.)			
Degree of Protection		IP54			
Material		End cover, conduit: polyamide Cover: polycarbonate Wire: US20276T AWG24 × 2C			
Weight (approx.)	LF1B-A	95g			
	LF1B-B	125g			
	LF1B-C	165g			
	LF1B-D	255g			

[•] Do not use the LF1B illumination units in environments subject to corrosive gases, otherwise illuminance may deteriorate.

Dimensions



Type No.	Α	В	С
LF1B-A	134	64	123
LF1B-B	210	140	199
LF1B-C	330	260	319
LF1B-D	580	510	569



All dimensions in mm.

Internal Circuit

