

LF3D/LF1D LED Lighting



LF3D LED Lighting

LF3D

Package Quantity: 1

Model		LF3D			
Light distribution		Standard		Diffused	
Style		Surface mount (*1)	Recessed mount	Surface mount (*1)	Recessed mount
Illumination surface		Reinforced glass			
Connection direction	Cable / Connector	Part no. (Ordering no.)			
Side	5m cable	LF3D-SB2S05M	—	LF3D-SB1S05M	—
	M8 connector	LF3D-SB2S2		LF3D-SB1S2	
Rear	5m cable	—	LF3D-FB2B05M	—	LF3D-FB1B05M
			LF3D-F1B2B05M (*2)		LF3D-F1B1B05M (*2)
			LF3D-F2B2B05M (*3)		LF3D-F2B1B05M (*3)
	M12 connector	LF3D-SB2B1	LF3D-FB2B1	LF3D-SB1B1	LF3D-FB1B1
			LF3D-F1B2B1 (*2)		
		LF3D-F2B2B1 (*3)			

*1) Contact IDEC for customers using LF1D-E (EH/EN) or LF1D-F (FH).

*2) Size and mounting centers compatible with LF2D-E (EH/EN). (LF3D-F1)

*3) Size and mounting centers compatible with LF2D-F (FH). (LF3D-F2)

Performance Specifications

Model	LF3D	
Style	Uniform light source / slim type	
Light distribution	Standard	Diffused
Rated voltage	24V DC	
Operating voltage range	21.6 to 26.4V DC	
Rated Power (typ.) (at rated voltage)	9.2W	
Illumination color	Daylight	
Color temp. (typ.)	5700K	
Luminous Flux (typ.)	1700 lm	
Reference Illuminance (typ.) at 1.0m directly below	1800 lx	1000 lx
Insulation resistance	100MΩ minimum (500V DC megger)	
Dielectric strength	1000V AC, 50/60Hz, 1 minute	
Vibration resistance (damage limits)	Frequency 5 to 55Hz, amplitude 0.5mm	
Shock resistance (damage limits)	1000m/s ²	
Operating temperature	-30 to +55°C (no freezing)	
Operating relative humidity	45 to 85%RH (no condensation)	
Storage temperature	-35 to +70°C (no freezing)	
Operating atmosphere	No corrosive gas	
Light source life (*1)	50,000 hours (The illumination duration in which the brightness maintains a minimum of 70%) (Ta = 25°C, 45%RH max.)	
Degree of protection (*2)	Surface mount: IP65, IP67, IP67G, IP69K Recessed mount: IP65, IP67, IP67G	
Glare save mode (GS-Mode) (*3)	White wire (pin no.1) - open: 100% light on White wire (pin no.1) and brown wire (pin no.2) - short-circuit: dim light	
Material (Main parts)	Main body: Aluminum Front cover (surface mount): Stainless steel Flange (recessed mount): Aluminum Side cover: Zinc die-cast (plating) Illumination part surface: Reinforced glass Gasket: NBR	
Weight (approx.)	LF3D-S: 680g (*4) LF3D-F: 770g (*4)	LF3D-F1: 830g (*4) LF3D-F2: 870g (*4)
Light Distribution Curve (reference value) (unit: cd/1000 lm)		

• Due to variations in LED elements, products may vary in illumination color and illuminance.

*1) Not a guaranteed value. The actual life may differ depending on the operating environment and conditions. Specifications are subject to change without notice.

Ta is the ambient temperature of this product.

*2) Testing conditions specified by IEC60529 (IP67), JIS C 0920 (IP67F/IP67G), and DIN40050-9 (IP69K)

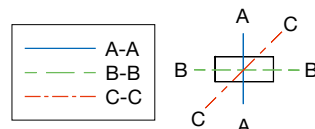
Not guaranteed for every operating condition (the rated value of the protective structure is when the product is mounted.)

*3) Dimming differs according to the operating environment.

Not a fixed value. (Ta=25°C typ.)

*4) Weight of cable type.

Cross-sectional direction of light distribution



Internal Circuit

