Flexglo™ F16D Dynamic Light (Silicone)
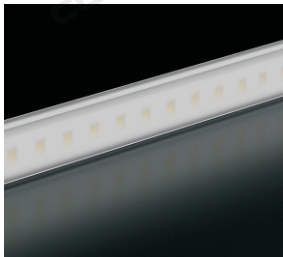
| | | 5 year Warranty | Solvents Resistant | UV Resistant | Flame Resistant | Salt Water Resistant | IK07 Protection |

| Certification Mark	UL	CE
Test Standard/Directive	UL2108 Class 2	CE-EMC
Certificate Serial Number	20180801-E360029	SZEM1712012372LMV
Report Reference	E360029-20130322	SZEM171201237201

2200K~6500K

Ambient Working Temperature
≤12W/m -40 ~ 55℃ /-40~131℉

Ambient Installation Temperature
≥ −40℃ /-40℉

Storage Temperature
-40 ~ 60℃ /-40~140℉

Max. Mounting Surface Temperature
85℃ /185℉
specified in the non-working state of light.

CV Constant Voltage
DC24V

C-SFR-F16D-VB

C-SFR-F16D-VB-24CV-22~65K-TT-144-12W-83.3

UNIT: cd
−C90/270

AVERAGE BEAM ANGLE (50%) : 96.8°
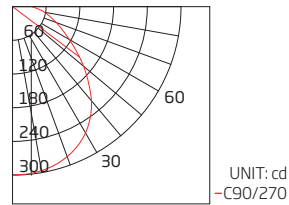
Min. Bending Diameter
50mm/1.97in

Min. Cutting Length
83.3mm/3.28in
6+6LEDs

15.5mm/0.61in
6mm/0.24in

LIGHT SURFACE
Vertical Bending

Bending-extreme
1105 times

Tensile-instantaneous
>60 kg.f

Twist-extreme
13787 times

Warning: Extreme Destructive Tests in laboratory only, and it's forbidden to operate in practice.

Note:
1. The illuminated light length shall be an integral multiple of min. cutting length.
2. The waterproof reliability of the lighting fixture depends on the IP rating of connector, and please make sure connector is properly assembled before installation. The highest IP rating we can achieve is IP67.

Item Code

C	SFR	F16D	VB	24CV	22~65K	TT	144	80	12W	83.3
Company	Material	Product Series	Bending Direction	Voltage & Circuit Type	CCT	Base & Lighting Surface	LEDs Qty/m	CRI	Power/m	Min. Cutting Length (mm)
Clear	SFR= Silicone Flex Ribbon	F16 D= Dynamic	VB= Vertical Bending	DC24V & Constant Voltage	22~65K = 2200~6500K	TT= Transparence & Transparence	144	80	12W	83.3

Feature

Flexglo™ F16D Dynamic Light (Silicone) is tunable from 2200K to 6500K or other colors, and dim to warm are optional, setting the harmonious tone for the surrounding space. Thanks to the excellent weatherproof and UV-resistant performance of silicone material, it features a wide ambient working temperature range of -40-55 ℃, especially suitable for harsh environment application.
Multiple connector options are available for different applications. Combined with the adoption of the DryWire™ technology,

*The IP67 Injection-moulded Connector is engineered for outdoor use, owing to its elegant appearance and strong adhesiveness acquired by the liquid silicone injection workmanship.
*The IP67 Field Assembly Connector, which is underpinned by the Insulfit™ technology that enables quick assembly in the field along with waterproof reliability (proper assembly required).
This product features a ultra long lifespan in outdoor application by leveraging other ClearTech™ such as the PinBoost™ technology enhancing physical reliability of light engine, the TwinFlex™ technology improving the conductivity and optimizing heat dissipation performance, the C-Mask™ technology making the light body self-cleaning and anti-UV and enabling consistent illumination.

Electrical Parameter

Category	C-SFR-F16D-VB
Voltage (V)	24
Current (mA/m)	500.0
Power (W/m)	12
Circuit Type	CV
LED Type	3015
LEDs Qty/m	144
LEDs Qty/unit	12
Unit/m	12
Min. Cutting Length (mm)	83.3
Min. Cutting Length (in)	3.28
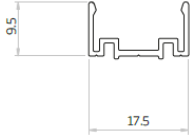
Optical Parameter

Item Code	Finished Product						LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F16D-VB-24CV-22~65K-TT-144-12W-83.3	2200K	2238±66K	<5SDCM	80	320lm	98lm	<2.3SDCM	82~87
	6500K	6532±340K	<5SDCM	80	410lm	125lm	<2.3SDCM	82~87

Note:
1. CCT Tolerance refers to target CCT and tolerance (ANSI C78.377).
2. Color Tolerance refers to CLEAR standard for finished product and LED.
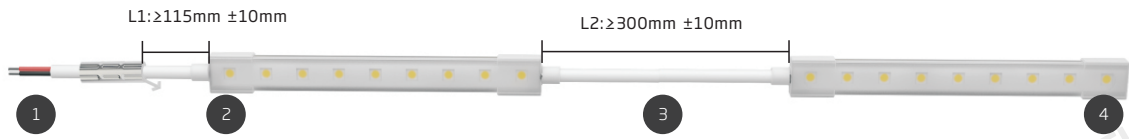
Max. Running Length Input: DC24V

Type	Injection-moulded Connector	
IP Rating	IP67	
Item Code	Single-end Feed	Double-end Feed
C-SFR-F16D-12W-Static full loading	15m	30m
C-SFR-F16D-12W-Dynamic operating	30m	60m

Note:
1. Above conclusion is based on voltage drop testing result of the light with 0.3m cable only.
2. The maximum running length is based on the light in static full loading status exceptionally stated dynamic operating.
3. Above running length is only the light length excluding lengths of connectors. Please refer to the specific dimension of each connector.
4. The delivery length might be subject to the maximum packing length.

Connector Type

L1:≥115mm ±10mm

L2:≥300mm ±10mm

1   2   3   4

| 1 | Male & Female Connector (Optional) | 2 | Silicone Injection-moulded Front Connector | 3 | Silicone Injection-moulded Middle Connector | 4 | Silicone Injection-moulded End Cap |

Male Connector

Female Connector

End

Side-L

Side-R

Bottom

Silicone Injection-moulded Jumper

Maximum 8 Jumpers in 20m
Maximum 4 Jumpers in 10m

Silicone Injection-moulded T-feed

Maximum 8 T-feeds in 20m
Maximum 4 T-feeds in 10m

End cap

Anti-wicking Ferrule

The anti-wicking ferrule is located at 115mm (±10mm tolerance) from the connector on the cable.

For protection against water ingress from inside of cable wire and hence damage the light.

Note:
1. Unless otherwise stated, the tolerance is ±0.5mm.
2. The removal of anti-wicking ferrule will void the warranty if any water ingression caused by it.

12mm
30mm

F16B
18AWG*2

15mm
30mm
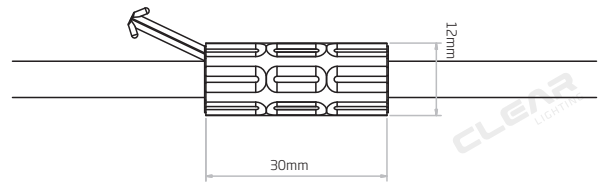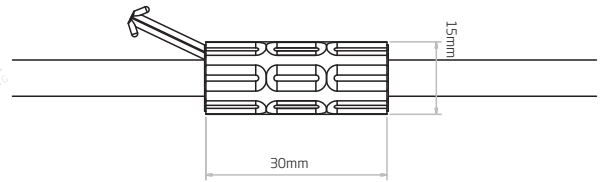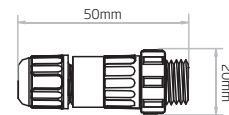
F16D/S
18AWG*3

22AWG*3
F16A
20AWG*1

22AWG*4
F16E
20AWG*1

Male & Female Connector

For plug and play cable junction, IP67

Note:
Unless otherwise stated, the tolerance is ±2mm.

50mm
20mm

Aluminum Profile

It uses high-quality 6063 aluminum with thin-wall, light- weight design to fit tightly the light body. It is deformation and rust resistant, and cost-effective.
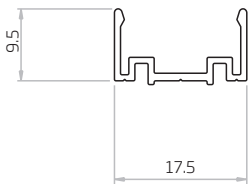
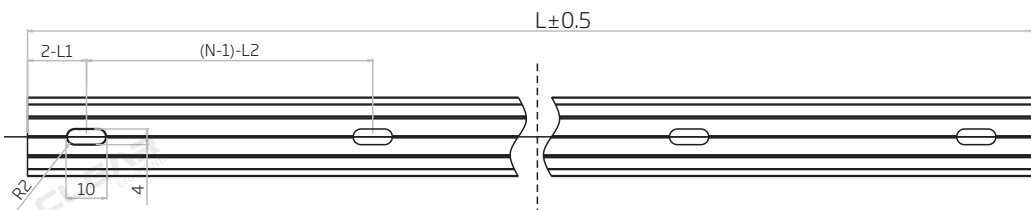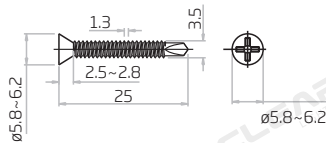Please refer to the applicable installation ways.

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined

Dimension: mm

9.5

17.5

Tolerance(AL): ±0.3mm

1.3   3.5

2.5~2.8

25

ø5.8~6.2

ø5.8~6.2

L±0.5

2-L1   (N-1)-L2

R2   10   4

Note:
1. 2-L1 refers to two of symmetric L1 in each piece of profile.
2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.
"N" hereby stands for its corresponding "Hole Number" in the below table

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
F16-A/PL-35MM-AL	35mm/1.38in	17.5mm/0.69in	/	4*10mm/0.16*0.39in	1
F16-A/PL-500MM-AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
F16-A/PL-1000MM-AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
F16-A/PL-2000MM-AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10