

Flexglo™ F22D Dynamic Light (Silicone)



2200K~5700K

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

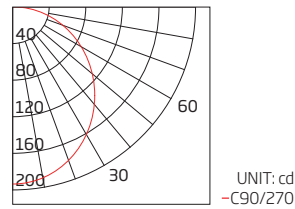
Ambient Working Temperature ≤12W/m -40 ~ 55°C / -40 ~ 131°F	Ambient Installation Temperature ≥-40°C / -40°F	Storage Temperature -40 ~ 60°C / -40 ~ 140°F
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Max. Mounting Surface Temperature 85°C / 185°F <i>specified in the non-working state of light.</i>	Constant Voltage DC24V
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C-SFR-F22D-VB



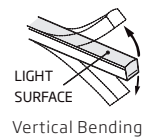
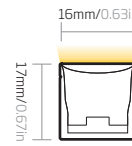
C-SFR-F22D-VB-24CV-22~57K-WM-144-80-12W-83.3



AVERAGE BEAM ANGLE (50%): 113.2°

Min. Bending Diameter
300mm/11.81in

Min. Cutting Length
83.3mm/3.28in
12LEDs



Bending-extreme
7072 times

Tensile-instantaneous
>100 kg.f

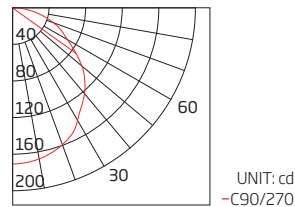
Twist-extreme
14441 times

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

C-SFR-F22D-HB



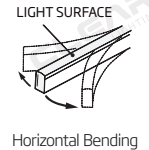
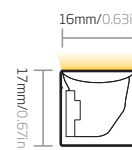
C-SFR-F22D-HB-24CV-22~57K-WM-144-80-12W-83.3



AVERAGE BEAM ANGLE (50%): 110.5°

Min. Bending Diameter
300mm/11.81in

Min. Cutting Length
83.3mm/3.28in
12LEDs



Bending-extreme
6459times

Tensile-instantaneous
>100 kg.f

Twist-extreme
7094 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 IP68.

Feature

Flexglo™ F22D Dynamic Light (Silicone) is tunable from 2200K to 5700K 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°C, especially suitable for harsh environment application.

Multiple connector options are available for different applications. Combined with the adoption of the DryWire™ technology,

*The IP68 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.

Item Code

C	SFR	F22D	VB	24CV	22~57K	WM	144	80	12W	83.3
Company	Material	Product Series	Bending Direction	Voltage & Circuit Type	CTT	Base & Lighting Surface	LEDs Qty/m	CRI	Power/m	Min. Cutting Length (mm)
Clear	SFR= Silicone Flex Ribbon	F22 D=Dynamic	VB= Vertical Bending HB= Horizontal Bending	DC24V & Constant Voltage	22~57K= 2200~5700K	WM= White & Milky	144	80	12W	83.3

Electrical Parameter

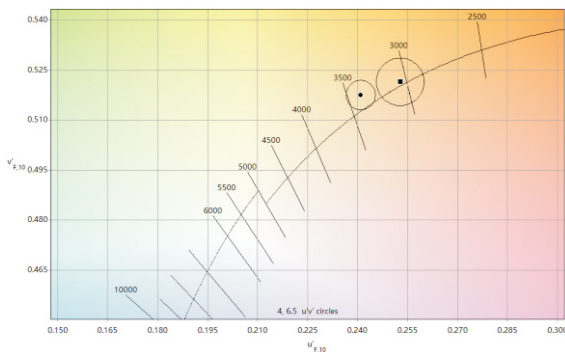
Category	C-SFR-F22D-VB/HB
Voltage (V)	24
Current (mA/m)	500.0
Power (W/m)	12
Circuit Type	CV
LED Type	3015
LEDs Qty/m	144
LEDs Qty/unit	12
Unit/m	12
Min. Cutting Length (mm)	83.3
Min. Cutting Length (in)	3.28

Optical Parameter

Item Code	Finished Product						LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F22D-VB-24CV-22~57K-WM-144-80-12W-83.3	2200K	2238±66K	<5SDCM	80	220lm	67lm	<2.3SDCM	82~87
	5700K	5669±305K	<5SDCM	80	270lm	82lm	<2.3SDCM	82~87
C-SFR-F22D-HB-24CV-22~57K-WM-144-80-12W-83.3	2200K	2238±66K	<5SDCM	80	220lm	67lm	<2.3SDCM	82~87
	5700K	5669±305K	<5SDCM	80	270lm	82lm	<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.



Color Matching

Color temperature value stated on all CLEAR's documents refers to finished products. LED's color temperature would be shifted by the light diffuser made of PVC or silicone material. CLEAR calibrates color temperature and color coordinate of tailor-made LEDs with proprietary color-matching algorithms to produce a precise color temperature and color coordinate close to black body locus for finished products. All LEDs would be strictly tested and tightly controlled to ensure finished products can meet ANSI standard.

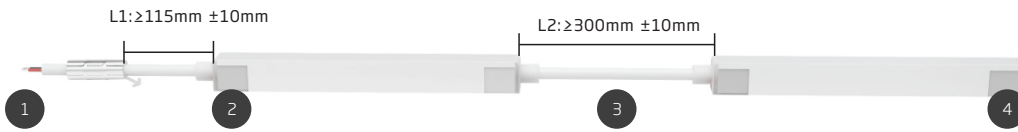
Max. Running Length Input: DC24V

Type	Silicone Injection-moulded Connector	
IP Rating	IP68	
Item Code	Single-end Feed	Double-end Feed
C-SFR-F22D-12W-Static full loading	15m	30m
C-SFR-F22D-12W-Dynamic operating	30m	60m

Note:

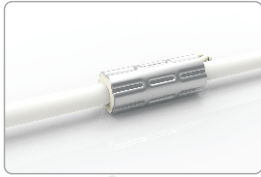
1. Above conclusion is based on voltage drop testing result of the light with 0.3m (0.98ft) cable only.
2. The maximum running length is based on the light in static full loading status exceptionally stated dynamic operating.
3. Above running length is only the light length excluding lengths of connectors. Please refer to the specific dimension of each connector.
4. The delivery length might be subject to the maximum packing length.

Connector Type



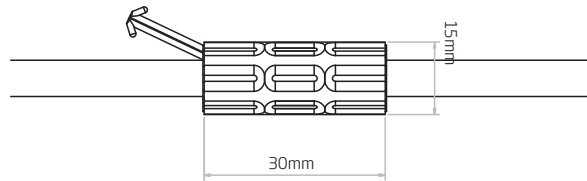
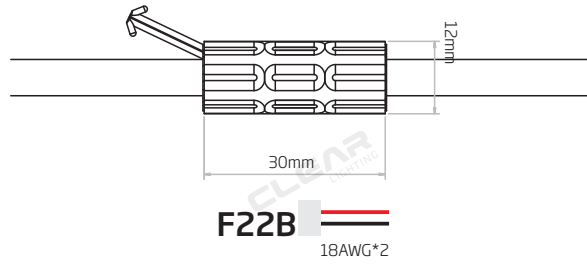
1	2	3	4
<p>Male & Female Connector (Optional)</p> <div data-bbox="199 683 395 873"> <p>Male Connector</p> </div> <div data-bbox="199 1019 395 1209"> <p>Female Connector</p> </div>	<p>Silicone Injection-moulded Front Connector</p> <div data-bbox="539 683 735 873"> <p>End</p> </div> <div data-bbox="539 1019 735 1209"> <p>Side-L</p> </div> <div data-bbox="539 1355 735 1545"> <p>Side-R</p> </div> <div data-bbox="539 1702 735 1892"> <p>Bottom</p> </div>	<p>Silicone Injection-moulded Middle Connector</p> <div data-bbox="874 683 1070 873"> <p>Silicone Injection-moulded Jumper Maximum 8 jumpers in 20m light Maximum 4 jumpers in 10m light</p> </div> <div data-bbox="874 1019 1070 1209"> <p>Silicone Injection-moulded T-feed Maximum 8 T-feeds in 20m light Maximum 4 T-feeds in 10m light</p> </div>	<p>Silicone Injection-moulded End Cap</p> <div data-bbox="1209 683 1406 873"> <p>End cap</p> </div>

Anti-wicking Ferrule



The anti-wicking ferrule is designed to lower the risk of water ingress from the cable in case of inadequate waterproof treatment on site.

For underwater application, do not immerse anti-wicking ferrule in the water.



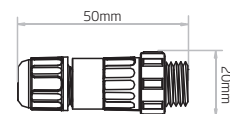
Note:

1. Unless otherwise stated, the tolerance is $\pm 0.5\text{mm}$.
2. The removal of anti-wicking ferrule will void the warranty if any water ingress caused by it.

Male & Female Connector



For plug and play cable junction, IP67



Note:

Unless otherwise stated, the tolerance is $\pm 2\text{mm}$.

F22 Stainless Steel Profile



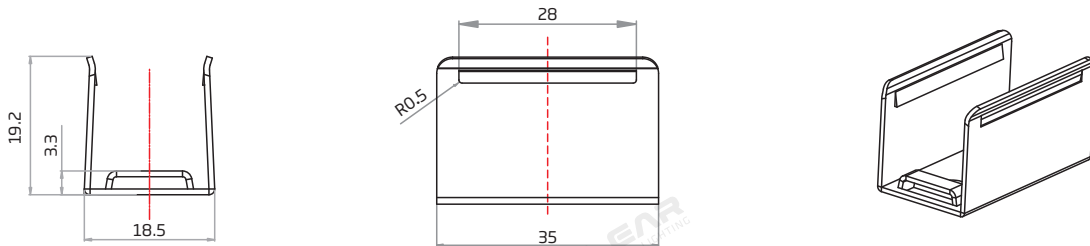
It uses grade 316 stainless steel with excellent property of deformation and rust resistance. The material makes it suitable for humid coastal surroundings and weak acid-base industrial environments that other mounting profiles can't accommodate. The structural design and material characteristics collectively ensure a tight clamping force. It's very convenient and reliable even for suspended installation in the curve shape.



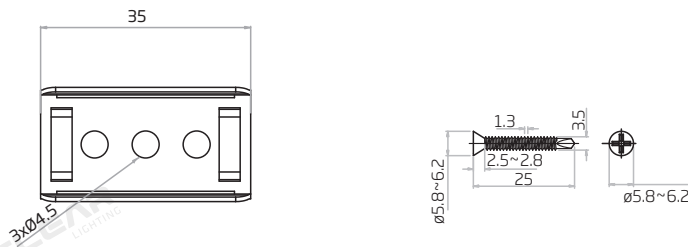
Please refer to the applicable installation ways.

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



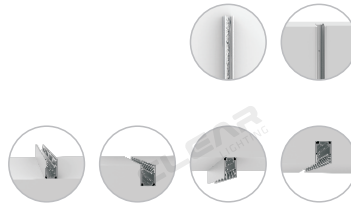
Tolerance: $\pm 0.3\text{mm}$



Item Code	Standard Length	Slotted Hole	Hole Number
F22-SS/PL-35MM-SSL	35mm/1.378in	4.5mm/0.18in	3



F22 Serrated Aluminum Profile

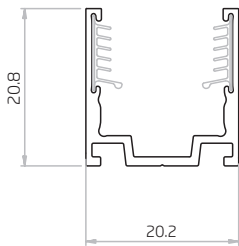


Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large friction in the process of installation and dismantlement.

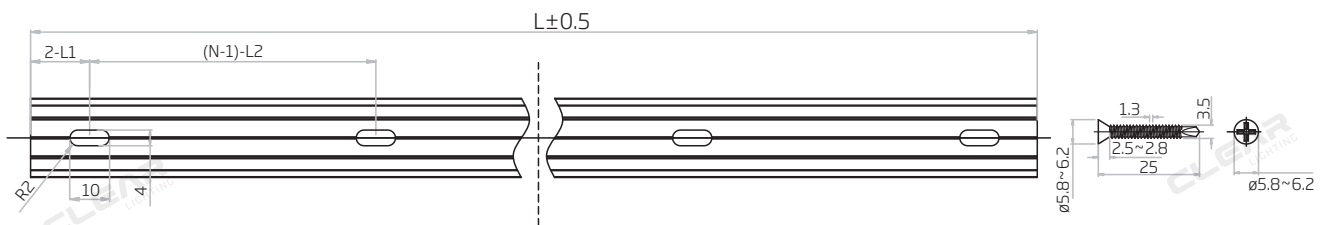
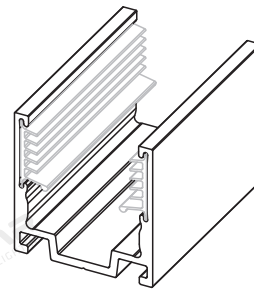
Please refer to the applicable installation ways.

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



Tolerance: $\pm 0.3\text{mm}$



Note:

- 2-L1 refers to two of symmetric L1 in each piece of profile.
 - (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
F22-SA/PL-20MM-AL	20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
F22-SA/PL-500MM-AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
F22-SA/PL-1000MM-AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
F22-SA/PL-2000MM-AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

F22 Flange Serrated Aluminum Profile



Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large friction in the process of installation and dismantlement.

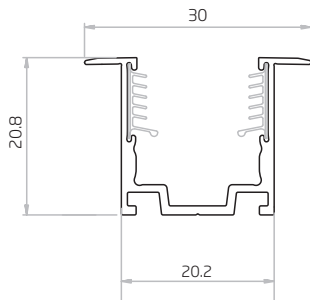
The "Flange" design is more suitable for recessed installation, better fits with the mounting groove and minimizes the operation tolerance during construction to some extent, like shielding the rough edges and the gaps of oversized groove.

Please refer to the applicable installation ways.

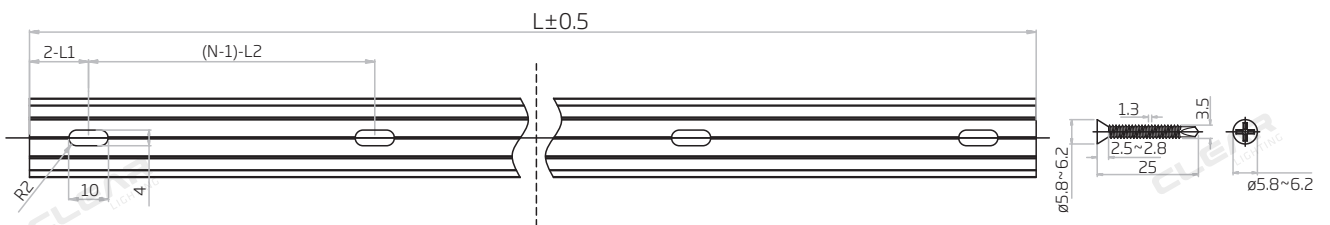
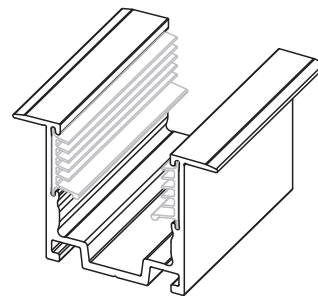


Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined

Dimension: mm



Tolerance: $\pm 0.3\text{mm}$

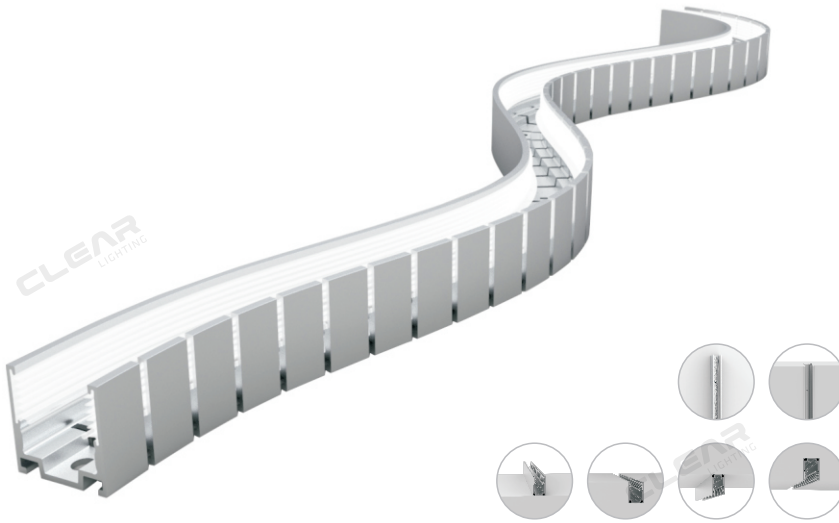


Note:

- 2-L1 refers to two of symmetric L1 in each piece of profile.
 - (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
F22-FSA/PL-20MM-AL	20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
F22-FSA/PL-500MM-AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
F22-FSA/PL-1000MM-AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
F22-FSA/PL-2000MM-AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

F22 Bendable Serrated Aluminum Profile

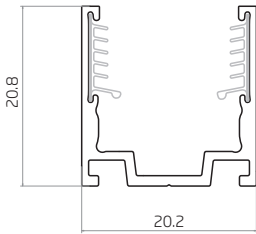


It is an expanded design of the serrated aluminum profile, and caters for the continuously streamlined aesthetics of curve shape. The secondary precision cutting process, not only maintains the advantage of clamping force, but also enables the two-way horizontal bending directions with super shape memory.

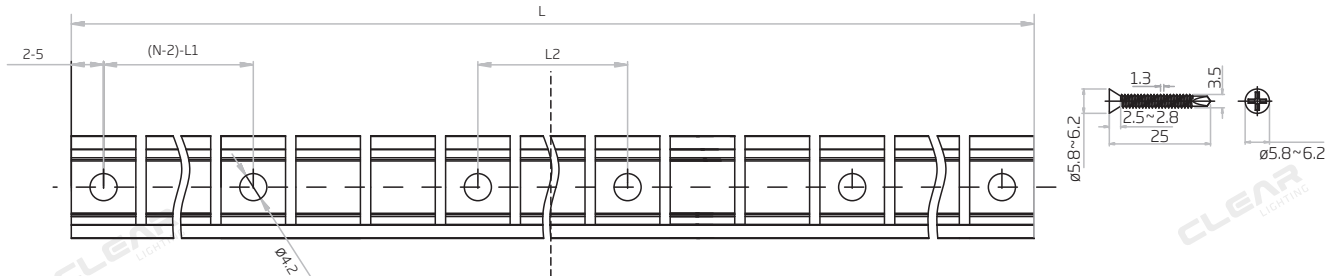
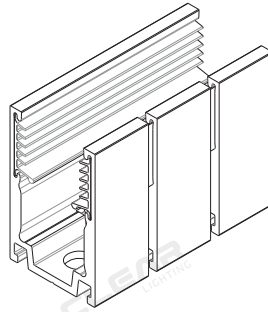
Please refer to the applicable installation ways.

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



Tolerance: $\pm 0.3\text{mm}$



Note:

- 2-5 refers to two of symmetric 5mm in each piece of profile.
 - (N-2)-L1 refers to (N minus two) of symmetric L1 in each piece of profile.
- "N" hereby stands for its corresponding "Hole Number" in the below table

Item Code	Standard Length	L1	L2	Screw Hole	Hole Number
F22-BSA/PL-500MM-AL	500mm/19.68in	110.3mm/4.34in	48.9mm/1.92in	ø4.2mm/0.17in	6
F22-BSA/PL-1000MM-AL	1000mm/39.37in	116.5mm/4.59in	98.8mm/3.89in	ø4.2mm/0.17in	10