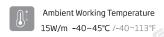
Flexglo[™] F22ET - Three-side Emitting RGBW Light (Silicone)



Certification Mark	(li)	(Ā ^r)	(€	8
Test Standard/Directive	UL2108 dass 2	UL2108 Non Class 2	CE-EMC	S 10322
Certificate Serial Number	20180801-E360029	20180312-E360029	SZEM1712012372LMV	R-41128376
Report Reference	E360029-20130322	E360029-20180309	SZEM171201237201	NO.20190425001







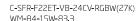


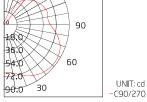












AVERAGE BEAM ANGLE (50%): 272.0°

Min. Bending Diameter 300mm/11.81in



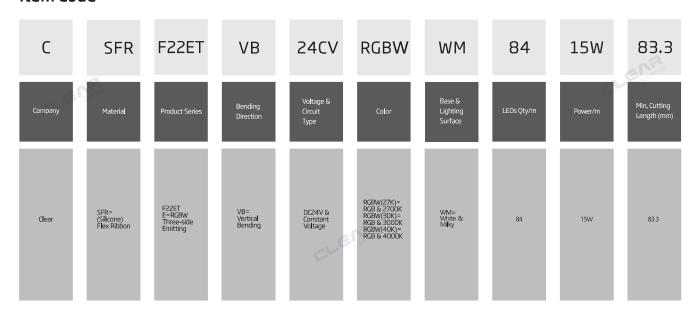




Note:

- 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.

Item Code





Feature

Flexglo™ F22ET Three-side Emitting RGBW Light (silicone) is a color changing product with qua-chip ${\sf SMD5050\,RGBW\,LEDs\,as\,light\,source,an\,ideal\,product\,for}$ project where premium LED is required. RGBW color changing is achievable via a 4-channel PWM controller or any compatible DMX-512 controller, and 2700K or 4000K in white color is optional. 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.

Combined with the adoption of the DryWire™ technology, the IP68 Silicone Injection-moulded Connector is engineered for outdoor use, owing to its elegant appearance and strong adhesiveness acquired by the liquid silicone injection workmanship.

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-F22ET-VB
Voltage (V)	24
Current (mA/m)	625
Power (W/m)	15
Circuit Type	CV
LED Type	5050
LEDs Qty/m	84
LEDs Qty/unit	7
Unit/m	12
Min. Cutting Length (mm)	83.3
Min. Cutting Length (in)	3.28

Optical Parameter

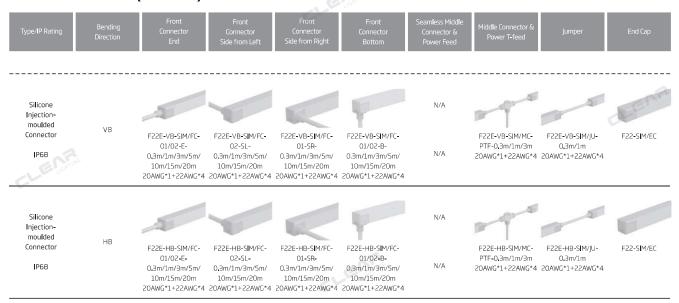
N 61		Finished Pro	LED		
ltem Code		Wavelength	Lumen/m	Lumen/ft	Color Tolerance
	Red	618-624nm	110 l m	34 l m	<3nm
	Green	522 - 530nm	380 l m	116 l m	<3nm
-SFR-F22ET-VB-24CV-RGBW(27K)-WM-84-15W-83.3	Blue	468-474nm	70 l m	21 l m	<3nm
-	2700K	2725±145K	300 l m	91 l m	<2.3SDCM
	Red	618-624nm	110 l m	34 l m	<3nm
·	Green	522 - 530nm	380 l m	116 l m	<3nm
-SFR-F22ET-VB-24CV-RGBW(30K)-WM-84-15W-83.3	Blue	468-474nm	70 l m	21 l m	<3nm
•	3000K	3045±175K	300 l m	91 l m	<2.3SDCM
	Red	618-624nm	110 l m	34 l m	<3nm
- CED E33ET VD 34CV DCDW/40W WW 04 4EW 033	Green	522 - 530nm	380 l m	116 l m	<3nm
-SFR-F22ET-VB-24CV-RGBW(40K)-WM-84-15W-83.3	Blue	468-474nm	70 l m	21 l m	<3nm
	4000K	3985±275K	300 l m	91 l m	<2.3SDCM
May Dunning Longth					CLE JOHNIC

Max. Running Length Input: DC24V

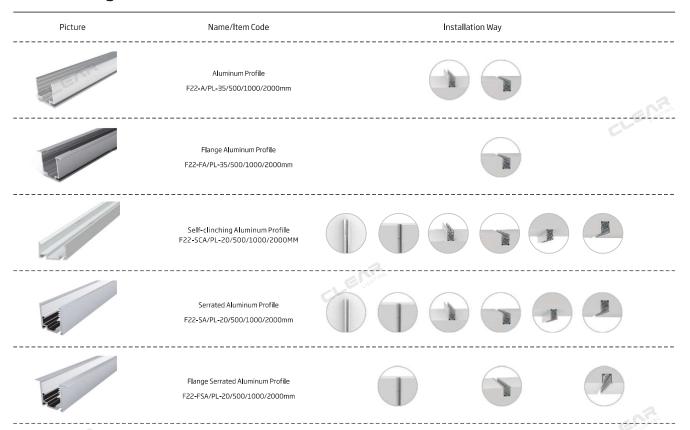
Type	Silicone Injection-moulded Connector									
IP Rating	IP68									
Item Code	Single-end Feed Double-end Feed									
C-SFR-F22ET-12W	8m/26.2ft 16m/52.5ft									
	E justino									

- 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.
 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.

F22E Connector (Silicone)



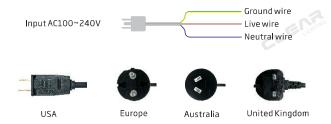
F22 Mounting Profile





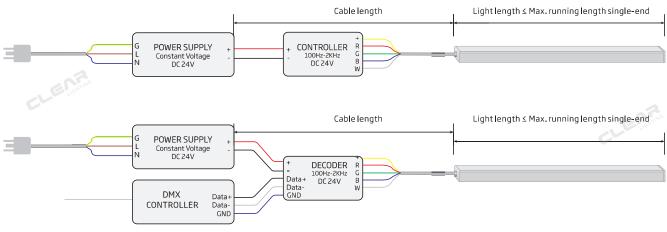
Flexglo[™] F22E Wiring Diagram

- Please use a constant voltage power supply with corresponding output voltage, and rated wattage of the power supply shall be 25% more than the actual power consumption of light to increase its life expectancy;
- A compatible controller is required to achieve various light changing effects;
- 3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
- 4. Full loading in RGBW is not recommended to avoid the overheating of light.
- This wiring diagram is using the mains of AC230V with brown and blue wires as an example, and please connect with the corresponding live and neutral wires for other mains electricity;



6. Types of standard plugs are optional if power cord is purchased from CLEAR.

Single-end Feed



Light Length:

The length of the longest single light in parallel connection or sum of lights in series connection.

Cable Length:

The length of an electrical cable between power output end and light input end, and the cables for serial interconnection are inclusive

How to Minimize Voltage Drop and Signal Transmission Attenuation

- $1. \ Please ensure the cable length is not more than the table "Max. Cable Length" according to light length and its wire gauge.$
- 2. Please ensure the light length is less than the cable "Max. Running Length Single-end Feed".
- 3. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

Max. Running Length Single-end Feed

Input: DC24V

Connector Type	Injection-moulded Connector	Dual Injection-moulded Connector
Wire Gauge	20AWG*1+22AWG*4	20AWG*1+22AWG*4
C-FR-F22E-15W-Static full loading	5m/16.4ft	5m/16 . 4ft
C-FR-F22E-15W-Dynamic operating	8m/26 , 2ft	8m/26 , 2ft
C-SFR-F22E-15W-Static full loading	8m/26 , 2ft	/
C-SFR-F22E-15W-Dynamic operating	12m/39,4ft	/

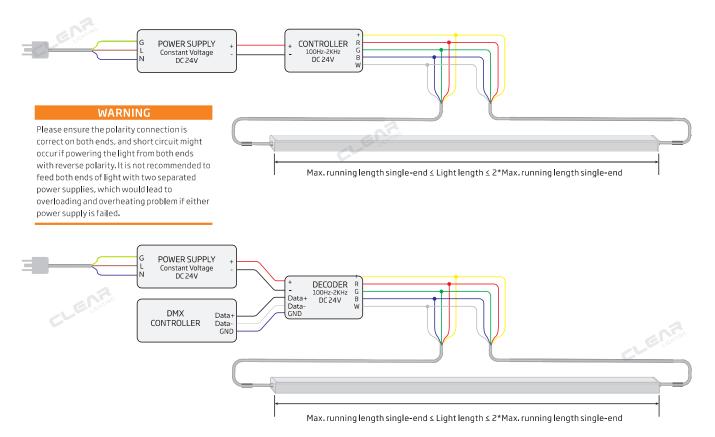
Note

- 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.
- 4. The delivery length might be subject to the maximum packing length.



Double-end Feed

Please refer to the following wiring diagram with double-end feed to run length that is longer than max, running length for single-end feed but less than twice the value.



Light Length:

The length of the longest single light in parallel connection or sum of lights in series connection.

Cable Length:

The length of an electrical cable between power output end and light input end, and the cables for serial interconnection are inclusive.

How to Minimize Voltage Drop and Signal Transmission Attenuation

- 1. It is optimal to position the power supply in the middle of a single light or multiple lines in daisy chain to keep the equivalent cable length on both ends for double-end feed.
- 2. Please ensure the cable length is not more than the table "Max. Cable Length" according to the half of light length and its wire gauge.
- 3. Please ensure the light length is less than the table "Max. Running Length Double-end Feed".
- 4. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

Max. Running Length Double-end Feed

Input: DC24V

<u> </u>		
Connector Type	Injection-moulded Connector	Dual Injection-moulded Connector
Wire Gauge	20AWG*1+22AWG*4	20AWG*1+22AWG*4
C-FR-F22E-15W-Static full loading	10m/32.8ft	10m/32.8ft
C-FR-F22E-15W-Dynamic operating	16m/52.5ft	16m/52.5ft
C-SFR-F22E-15W-Static full loading	16m/52.5ft	/
C-SFR-F22E-15W-Dynamic operating	24m/78.7ft	

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.
- 4. The delivery length might be subject to the maximum packing length.

F22E Max. Cable Length (PVC)



Input: DC24V

		Cable Length									inc
Item Code	Light Length	0.32 mm ²		0.52 mm ² 0.81 mm ²		1.32 mm ²		2.07 mm ²			
	(m)	22/	\WG	20AWG		18/	\WG	16AWG		14AWG	
		m	ft	m	ft	m	ft	m	ft	m	ft
LICHTING	1	47.3	155.1	76.8	252.1	119.7	392.6	195.0	639.8	305.8	1003.4
	2	22.0	72.2	35.7	117.2	55.7	182.6	90.7	297.6	142.3	466.7
C-FR-F22E-15W	3	13.7	44.8	22.2	72.9	34.6	113.5	56.4	185.0	88.4	290.1
	4	9.5	31.0	15.4	50.4	23.9	78 . 5	39.0	128.0	61.2	200.7
	5			9.6	31.6	15.0	49.3	24.5	80.3	38.4	126.0



F22E Max. Cable Length (Silicone)

Input: DC24V

		Cable Length									
Item Code	Light Length (m)	0.32 mm ² 22AWG		0.52 mm ² 20AWG		0.81 mm ² 18AWG		1.32 mm ² 16AWG		2.07 mm ² 14AWG	
	6	m	ft	m	ft	m	ft	m	ft	m	ft
Tion	1	48.0	48.0	78.0	255.8	121.5	398.5	197.9	649.4	310.4	1018.3
C-SFR-F22E-15W	2	23.8	23.8	38.7	127.0	60.3	197.8	98.2	322.3	154.0	505.4
	3	15.3	15.3	24.8	81.3	38.6	126.7	62.9	206.4	98.7	323.7
	4	11.0	11.0	17.9	58 . 8	27.9	91.7	45.5	149.4	71.4	234.2
	5			13.9	45.4	21.6	70.8	35.2	115.4	55.1	180.9
	6			11.1	36.4	17.3	56.8	28.2	92.5	44.2	145.0
	7			8.7	28.4	13.5	44.3	22.0	72,2	34.5	113,2
	8					11.3	36.9	18.3	60.2	28.8	94.4

Single-end feed, C-FR-F22E-15W, 5m light length with 20AWG wire, max. cable length should refer to the corresponding value 9.6m for 5m light length;

Double-end feed, C-FR-F22E-15W, 10m light length with 20AWG wire, max. cable length of each end should refer to the corresponding value 9.6m for half of light length 5m;







 $[\]textbf{1. Please check the wire gauge of your connector in the table "Max. Running Length".}\\$

^{2.} The above cable lengths are calculated based on 10% allowable voltage drop maximum.