Flexglo[™] F2219B Monochrome - White Light (Silicone)



Certification Mark	(L)	C€	8	
Test Standard/Directive	UL2108 Class 2	CE-EMC	IS 10322	
Certificate Serial Number	20180801-E360029	SZEM1712012372LMV	R-41128376	
Report Reference	E360029-20130322	SZEM171201237201	N0.20190425001	







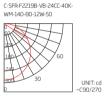






C-SFR-F2219B-VB







400mm/15.75in Min. Cutting Length







Vertical Bending

AVERAGE BEAM ANGLE (50%): 111.2°

- 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 (see details on page ***), and please make sure connector is properly assembled before installation. The highest IP rating we can achieve is IP68.

Item Code





new item for architectural market with rated power options of 12W/m and 16.5W/m, delivering luminous flux up to 1000lm/m. Thanks to the excellent weatherproof and UV resistant performance of silicone material, it features a wide ambient working temperature range of -40-55 °C excluding -40~45 °C for 16.5W/m, especially suitable for harsh environment application.

FlexqloTM F2219B Monochrome - White Light (Silicone) is a Combined with the adoption of the DryWire technology, the IP6B Injection-moulded Connector is engineered for outdoor use, owing to its elegant appearance and strong adhesiveness acquired by the liquid silicone injection workmanship.

> This product features a ultra long lifespan in outdoor application by leveraging other $ClearTech^{TM}$ such as the $PinBoost^{TM}$ 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

Voltage (V) 24 24 Current (mA/m) 500.0 687.5 Power (W/m) 12 16.5 Circuit Type CC CC LED Type 2835 2835 LEDs Qty/m 140 140 LEDs Qty/unit 7 7	Category	C-SFR-F23	219B-VB
Power (W/m) 12 16.5 Circuit Type CC CC LED Type 2635 2835 LEDs Qty/m 140 140 LEDs Qty/unit 7 7	Voltage (V)	24	24
CircuitType CC CC LED Type 2835 2835 LEDs Qty/m 140 140 LEDs Qty/unit 7 7	Current (mA/m)	500.0	687.5
Circuit Type CC CC LED Type 2835 2835 LEDs Qty/m 140 140 LEDs Qty/unit 7 7			
LED Type 2835 2835 LEDs Qty/m 140 140 LEDs Qty/unit 7 7	Circuit Type	CC	СС
LEDs Qty/unit 7 7			
	LEDs Qty/m	140	140
Unit/m 20	LEDs Qty/unit	7	7
Unit/m 20 20	Unit/m	20	20
Min. Cutting Length (mm) 50 50			50
Min.Cutting Length (in) 1.97 1.97	Min. Cutting Length (in)	1.97	

Optical Parameter

N 6.4	Finished Product					LED		
Item Code	CCT	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F2219B-VB-24CC-22K-WM-140-80-12W-50	<u>2200</u> K	2238±82K	<5SDCM	80	900	274	<2.3SDCM	82~87
C-SFR-F2219B-VB-24CC-27K-WM-140-80-12W-50	<u>2700</u> K	2725±115K	<5SDCM	80	920	280	<2.3SDCM	82~87
C-SFR-F2219B-VB-24CC-30K-WM-140-80-12W-50	_ 3000К	3045±140K	<5SDCM	80	920	280	<2.3SDCM	82~87
C-SFR-F2219B-VB-24CC-35K-WM-140-80-12W-50	_ 3500К	3465±170K	<5SDCM	80	950	290	<2.3SDCM	82~87
C-SFR-F2219B-VB-24CC-40K-WM-140-80-12W-50	4000K	3985±225K	<5SDCM	80	950	290	<2.3SDCM	82~87
C-SFR-F2219B-VB-24CC-57K-WM-140-80-12W-50	5700K	5665±355K	<5SDCM	80	950	290	<2.3SDCM	82~87
C-SFR-F2219B-VB-24CC-22K-WM-140-80-16.5W-5) <u> </u>	2238±82K	<5SDCM	80	1200	366	<2.3SDCM	82~87
C-SFR-F2219B-VB-24CC-27K-WM-140-80-16.5W-5) <u> </u>	2725±115K	<5SDCM	80	1300	396	<2.3SDCM	82~87
C-SFR-F2219B-VB-24CC-30K-WM-140-80-16.5W-5) — 3000к	3045±140K	<5SDCM	80	1300	396	<2.3SDCM	82~87
C-SFR-F2219B-VB-24CC-35K-WM-140-80-16.5W-5) <u> </u>	3465±170K	<5SDCM	80	1400	427	<2.3SDCM	82~87
C-SFR-F2219B-VB-24CC-40K-WM-140-80-16.5W-5	0 — 4000K	3985±225K	<5SDCM	80	1400	427	<2.3SDCM	82~87
C-SFR-F2219B-VB-24CC-57K-WM-140-80-16.5W-5	5700K	5665±355K	<5SDCM	80	1300	396	<2.3SDCM	82~87

1. CCT Tolerance refers to target CCT and tolerance (ANSI C78.377).

2. Color Tolerance refers to CLEAR standard for the different batch of finished product and LED, and it's < 3SDCM for same batches of finished product.

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Max. Running Length Input: DC24V



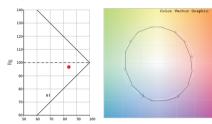


Туре	Silicone Injection-	-moulded Connector
IP Rating		P68
Item Code	Single-end Feed	Double-end Feed
C-SFR-F2219B-12W	15m/49.2ft	30m/98.4ft
C-SFR-F2219B-16.5W	10m/32.8ft	20m/65.6ft

- 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 page *** for exact dimension of connector.

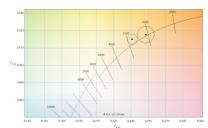
 4. The delivery length might be subject to the maximum packing length. Please refer to page *** for details.

TM-30



IES TM-30-15 is a new system of several related measures and graphics that can be used together to effectively evaluate and communicate a light source's color rendering $properties. The \, development \, of \, the \, method \, involved \, synthesizing \, multiple \, related \, research$ $efforts \, and \, combining \, ideas \, into \, a \, single, \, cohesive \, system \, of \, objective \, information \, that \, can$ be used to aid decision-making processes, such as finding the preferred light source for a given application or evaluating the tradeoffs between efficacy and color rendering.

Measure		Description
Fidelity Index	Rf	Analogous to CIE Ra (CRI). Characterizes the average color shift of the 99 CES to characterize the overall level of similarity between the test source and reference illuminant. Values range from 0 to 100.
Gamut Index	Rg	Compares the area enclosed by the average chromaticity coordinates in each of 16 hue bins to characterize the average saturation level of the test source compared the reference illuminant. A neutrial score is 100, with values greater than 100 indicating an increase in saturation and values less than 100 indicating an advantage of the control of the



Color Matching

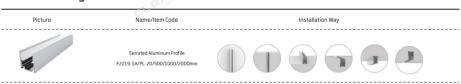
Color temperature value stated on all CLEAR's documents refers to finished products. $\ \, \mathsf{LED's} \, \mathsf{color} \, \mathsf{temperature} \, \mathsf{would} \, \mathsf{be} \, \mathsf{shifted} \, \mathsf{by} \, \mathsf{the} \, \mathsf{light} \, \mathsf{diffuser} \, \mathsf{made} \, \mathsf{of} \, \mathsf{PVC} \, \mathsf{or} \, \mathsf{silicone} \, \\$ $\hbox{material. CLEAR calibrates color temperature and color coordinate of tailor-made LEDs with}$ 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.



F2219B Connector (Silicone)

Type/IP Rating	Bending Direction	Front Connector End	Front Connector Side from Left	Front Connector Side from Right	Front Connector Bottom	Seamless Middle Connector & Power Feed	Middle Connector & Power T-feed	Jumper	End Cap
Silicone Injection-		1		TC.	101	N/A	The state of the s	4	
moulded Connector IP68	VB	F2219B-VB-SIM/FC- 01/02-E- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F2219B-VB-SIM/FC- 01/02-SL- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F2219B-VB-SIM/FC- 01/02-SR- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F2219B-VB-SIM/FC- 01/02-B- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	N/A	F2219B-VB-SIM/MC- PTF-0.3m/1m/3m 18AWG*2	F2219B-VB-SIM/JU- 0.3m/1m 18AWG*2	FZ219-SIM/EC

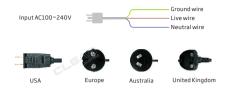
F2219 Mounting Profile





Flexglo[™] F2219B 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;
- 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;
- 3. Dimming frequency ranges from 100Hz to 2000Hz, and 500Hz is recommended.



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

Cable length Light length 5 Max. running length single-end Cable length Light length 5 Max. running length single-end Cable length Cable length Light length 5 Max. running length single-end Cable length Light length 5 Max. running length single-end

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

- 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".

Max. Running Length Single-end Feed

Input: DC24V

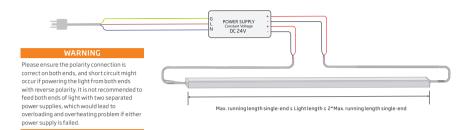
Connector Type	Injection-moulded Connector	
Wire Gauge	18AWG*2	
C-SFR-F2219B-12W	15m/49.2ft	
C-SFR-F2219B-16.5W	10m/32.8ft	

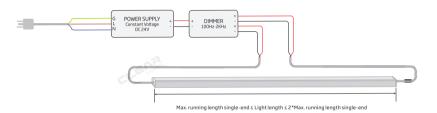
Note:

- $1. Above \, conclusion \, is \, based \, on \, voltage \, drop \, testing \, result \, of \, the \, light \, with \, 0.3m \, (0.98ft) \, cable \, only.$
- 2. The maximum running length is based on the designated light in static full loading status.
- 3. Above running length is only the light length excluding lengths of connectors. Please refer to page *** for exact dimension of connector.
- 4. The delivered length might be subject to the maximum packing length. Please refer to page *** for details.

Double-end Feed

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

- 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".

Max. Running Length Double-end Feed

Input: DC24V

Connector Type	Injection-moulded Connector	
Wire Gauge	18AWG*2	
C-SFR-F2219B-12W	30m/98.4ft	
C-SFR-F2219B-16.5W	20m/65.6ft	

Vote:

- 1. Above conclusion is based on voltage drop testing result of the light with 0.3m (0.98ft) cable only.
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