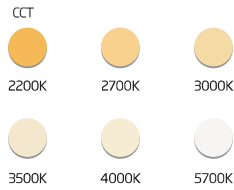


Flexglo™ F15B Monochrome - White Light (Silicone)



Certification Mark			
Test Standard/Directive	UL2108 Class 2	CE-EMC	IS 10322
Certificate Serial Number	20180801-E360029	SZEM1712012372LMV	R-41128376
Report Reference	E360029-20130322	SZEM171201237201	NO,20190425001

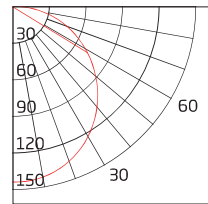


Ambient Working Temperature ≤6W/m -40 ~ 65°C /-40~149°F 9W/m -40 ~ 60°C /-40~140°F 12W/m -40 ~ 55°C /-40~131°F	Ambient Installation Temperature ≥ -40°C /-40°F	Storage Temperature -40 ~ 60°C /-40~140°F
	Max. Mounting Surface Temperature 85°C /185°F <i>specified in the non-working state of light.</i>	Constant Current DC24V

C-SFR-F15B-HB



C-SFR-F15B-HB-24CC-30K-
WM-72-80-12W-83.3



Min. Bending Diameter 120mm/4.72in	Min. Cutting Length 83.3mm/3.28in 6LEDs	11.5mm/0.45in 21mm/0.83in	LIGHT SURFACE Horizontal Bending
Bending-extreme 4526 times	Tensile-instantaneous >60 kg.f	Twist-extreme 3542 times	

AVERAGE BEAM ANGLE (50%): 113.2°

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

Note:

- The illuminated light length shall be an integral multiple of min. cutting length.
- 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

C	SFR	F15B	HB	24CC	30K	WM	72	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	F15B= Monochrome	HB= Horizontal Bending	DC24V & Constant Current	22K=2200K 27K=2700K 30K=3000K 35K=3500K 40K=4000K 57K=5700K	WM= White & Milky	72	80	6W 9W 12W	83.3
					27K=2700K 30K=3000K 35K=3500K 40K=4000K			90	12W	
					30K=3000K			95		

Feature

Flexglo™ F15B Monochrome - White Light (Silicone) is a popular item for architectural market with rated power options of 6W/m, 9W/m, 12W/m. Its CRI value can reach 95Ra and maximum luminous flux is up to 400lm/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, 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.

Electrical Parameter

Category	C-SFR-F15B-HB	C-SFR-F15B-HB	C-SFR-F15B-HB
Voltage (V)	24	24	24
Current (mA/m)	250.0	375.0	500.0
Power (W/m)	6	9	12
Circuit Type	CC	CC	CC
LED Type	2835	2835	2835
LEDs Qty/m	72	72	72
LEDs Qty/unit	6	6	6
Unit/m	12	12	12
Min. Cutting Length (mm)	83.3	83.3	83.3
Min. Cutting Length (in)	3.28	3.28	3.28

Optical Parameter

CRI 80

Item Code	Finished Product							LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F15B-HB-24CC-22K-WM-72-80-6W-83.3	2200K	2238±66K	<5SDCM	80		160lm	49lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-27K-WM-72-80-6W-83.3	2700K	2725±85K	<5SDCM	80		180lm	55lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-30K-WM-72-80-6W-83.3	3000K	3045±105K	<5SDCM	80		200lm	61lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-35K-WM-72-80-6W-83.3	3500K	3465±245K	<5SDCM	80		200lm	61lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-40K-WM-72-80-6W-83.3	4000K	3985±150K	<5SDCM	80		200lm	61lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-57K-WM-72-80-6W-83.3	5700K	5669±305K	<5SDCM	80		200lm	61lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-22K-WM-72-80-9W-83.3	2200K	2238±66K	<5SDCM	80		240lm	73lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-27K-WM-72-80-9W-83.3	2700K	2725±85K	<5SDCM	80		270lm	82lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-30K-WM-72-80-9W-83.3	3000K	3045±105K	<5SDCM	80		300lm	91lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-35K-WM-72-80-9W-83.3	3500K	3465±245K	<5SDCM	80		300lm	91lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-40K-WM-72-80-9W-83.3	4000K	3985±150K	<5SDCM	80		300lm	91lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-57K-WM-72-80-9W-83.3	5700K	5669±305K	<5SDCM	80		300lm	91lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-22K-WM-72-80-12W-83.3	2200K	2238±66K	<5SDCM	80		320lm	98lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-27K-WM-72-80-12W-83.3	2700K	2725±85K	<5SDCM	80		360lm	110lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-30K-WM-72-80-12W-83.3	3000K	3045±105K	<5SDCM	80		400lm	122lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-35K-WM-72-80-12W-83.3	3500K	3465±245K	<5SDCM	80		400lm	122lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-40K-WM-72-80-12W-83.3	4000K	3985±150K	<5SDCM	80		400lm	122lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-57K-WM-72-80-12W-83.3	5700K	5669±305K	<5SDCM	80		400lm	122lm	<2.3SDCM	82~87

Flexglo™ F15B Monochrome - White Light (Silicone)

CRI 90

Item Code	Finished Product							LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F15B-HB-24CC-27K-WM-72-90-12W-83.3	2700K	2725±85K	<5SDCM	90	35~80	280lm	85lm	<2.3SDCM	91~97
C-SFR-F15B-HB-24CC-30K-WM-72-90-12W-83.3	3000K	3045±105K	<5SDCM	90	35~80	320lm	98lm	<2.3SDCM	91~97
C-SFR-F15B-HB-24CC-35K-WM-72-90-12W-83.3	3500K	3465±245K	<5SDCM	90	35~80	320lm	98lm	<2.3SDCM	91~97
C-SFR-F15B-HB-24CC-40K-WM-72-90-12W-83.3	4000K	3985±150K	<5SDCM	90	35~80	320lm	98lm	<2.3SDCM	91~97

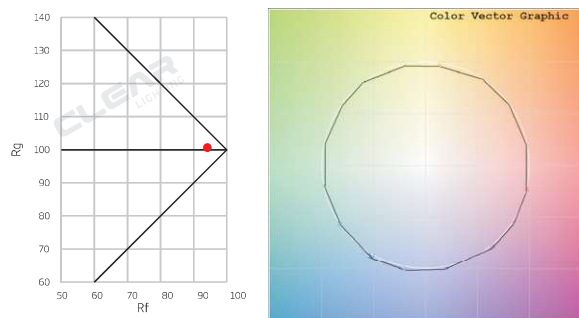
CRI 95

Item Code	Finished Product							LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F15B-HB-24CC-30K-WM-72-95-12W-83.3	3000K	3045±105K	<5SDCM	95	80~99	270lm	82lm	<2.3SDCM	96~99

Note:

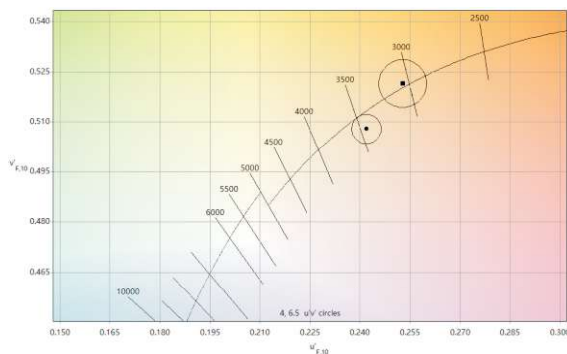
1. CCT Tolerance refers to target CCT and tolerance (ANSI C78.377).
2. Color Tolerance refers to CLEAR standard for the different batch of finished product and LED, and it's <3SDCM for same batches of finished product.

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	Abbreviation	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 to the reference illuminant. A neutral score is 100, with values greater than 100 indicating an increase in saturation and values less than 100 indicating a decrease in saturation. The range in values grows as fidelity decreases.



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	Swivel Connector		Sleeve Connector		Snap Connector		Socket Connector		Silicone Injection-moulded Connector	
IP Rating	IP20		IP40		IP67		IP67		IP68	
Item Code	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed
C-SFR-F15B-6W	10m/32.8ft	20m/65.6ft	30m/98.4ft	60m/196.8ft	30m/98.4ft	60m/196.8ft	30m/98.4ft	60m/196.8ft	30m/98.4ft	60m/196.8ft
C-SFR-F15B-9W	6m/19.68ft	12m/39.36ft	18m/59.04ft	36m/118.08ft	18m/59.04ft	36m/118.08ft	18m/59.04ft	36m/118.08ft	18m/59.04ft	36m/118.08ft
C-SFR-F15B-12W	5m/16.4ft	10m/32.8ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft
Dimension of Connector	Page F15 128		Page F15 131		Page F15 135		Page F15 140		Page F15 149	
Max.Packing Length					Page F15 196					

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.
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.