Flexglo™ F22BT Monochrome - Three-side Emitting White Light (Silicone)

5 year Warranty
Solvents Resistant
UV Resistant
Flame Resistant
Salt water Resistant
IK08 Protection

2200K | 2700K | 3000K
3500K | 4000K | 5700K

Certification Mark	UL	UL	C E	IS
Test Standard/Directive	UL2108 Class 2	UL2108 Non Class 2	CE-EMC	IS 10322
Certificate Serial Number	20180801-E360029	20180312-E360029	SZEM1712012372LMV	R-41128376
Report Reference	E360029-20130322	E360029-20180309	SZEM171201237201	NO.20190425001

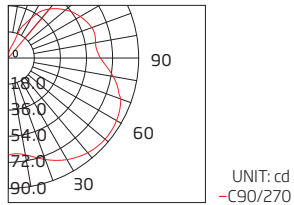**Ambient Working Temperature** 12W/m -40~55℃ /-40~131℉

Ambient Installation Temperature ≥ −40℃ /-40℉

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

Max. Mounting Surface Temperature 85℃ /185℉

CC Constant Current DC24V

C-SFR-F22BT-VB

C-SFR-F22BT-VB-24CC-27K-WM-80-12W-55.6

90 | 60 | 30
UNIT: cd −C90/270

AVERAGE BEAM ANGLE (50%): 272.0°

Min. Bending Diameter 300mm/11.81in

Min. Cutting Length 55.6mm/2.19in 7LEDs

16 | 17 | 15

LIGHT SURFACE
Vertical Bending

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™ F22BT Monochrome - Three-side Emitting White Light (Silicone) is an ideal product for the project where light can be viewed in ultra-wide field with rated power 12W/m. Maximum luminous flux is up to 1100lm/m. 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 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.
*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 has an 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	F22BT	VB	24CC	30K	WM	126	80	12W	55.6
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	F22BT = Monochrome Three-side Emitting	VB= Vertical Bending	DC24V & Constant Voltage	22K=2200K 27K=2700K 30K=3000K 35K=3500K 40K=4000K 57K=5700K	WM= White & Milky	126	80	12W	55.6

Electrical Parameter

Category	C-SFR-F22BT-VB
Voltage (V)	24
Current (mA/m)	500.0
Power (W/m)	12
Circuit Type	CC
LED Type	2835
LEDs Qty/m	126
LEDs Qty/unit	7
Unit/m	18
Min. Cutting Length (mm)	55.6
Min. Cutting Length (in)	2.19

Optical Parameter

Item Code	Finished Product						LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F22BT-VB-24CC-22K-WM-126-80-12W-55.6	2200K	2238±102K	<6SDCM	80	850lm	259lm	<2.3SDCM	82~87
C-SFR-F22BT-VB-24CC-27K-WM-126-80-12W-55.6	2700K	2725±145K	<6SDCM	80	1050lm	320lm	<2.3SDCM	82~87
C-SFR-F22BT-VB-24CC-30K-WM-126-80-12W-55.6	3000K	3045±175K	<6SDCM	80	1100lm	335lm	<2.3SDCM	82~87
C-SFR-F22BT-VB-24CC-35K-WM-126-80-12W-55.6	3500K	3465±245K	<6SDCM	80	1100lm	335lm	<2.3SDCM	82~87
C-SFR-F22BT-VB-24CC-40K-WM-126-80-12W-55.6	4000K	3985±275K	<6SDCM	80	1100lm	335lm	<2.3SDCM	82~87
C-SFR-F22BT-VB-24CC-57K-WM-126-80-12W-55.6	5700K	5669±355K	<6SDCM	80	1100lm	335lm	<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 the different batch of finished product and LED, and it's <3SDCM for same batches of finished product.
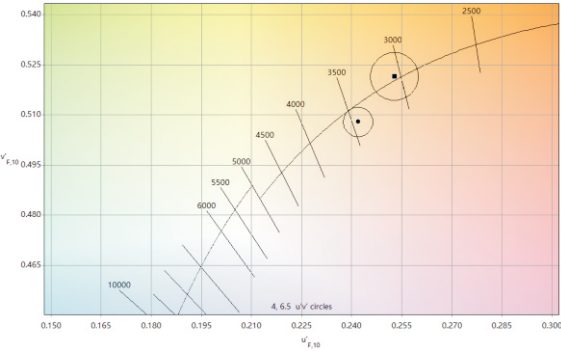
Color Matching

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		Snap Connector		Socket Connector		Silicone Injection -moulded Connector	
IP Rating	IP20		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
C-SFR-F22BT-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

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.

Flexglo™ F22DT - Three-side Emitting Dynamic Light (Silicone)

5 year Warranty | **Solvents Resistant** | **UV Resistant**

Flame Resistant | **Salt Water Resistant** | **IK08 Protection**

Certification Mark	ⓤL	ⓤL	CE	S
Test Standard/Directive	UL2108 Class 2	UL2108 Non Class 2	CE-EMC	IS 10322
Certificate Serial Number	20180801-E360029	20180312-E360029	SZEM1712012372LMV	R-41128376
Report Reference	E360029-20130322	E360029-20180309	SZEM171201237201	NO.20190425001

2200K~5700K

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

Ambient Installation Temperature
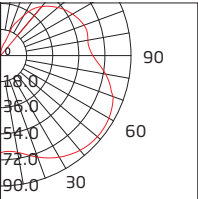≥ −40℃ / -40℉

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

Max. Mounting Surface Temperature
85℃ /185℉

Constant Current
CV DC24V

C-SFR-F22DT-VB

C-SFR-F22DT-VB-24CV-22K~57K-WM-144-12W-83.3

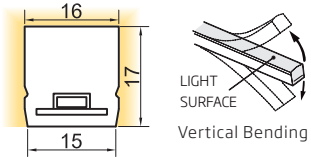UNIT: cd
─C90/270

AVERAGE BEAM ANGLE (50%): 272.0°

Min. Bending Diameter
300mm/11.81in

Min. Cutting Length
83.3mm/3.28in, 12LEDs

16
17
15

LIGHT SURFACE
Vertical Bending

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

C	SFR	F22DT	VB	24CV	22-57K	WM	144	12W	83.3
Company	Material	Product Series	Bending Direction	Voltage & Circuit Type	Color	Base & Lighting Surface	LEDs Qty/m	Power/m	Min. Cutting Length (mm)
Clear	SFR= (Silicone) Flex Ribbon	F22DT= Dynamic Three-side Emitting	VB= Vertical Bending	DC24V & Constant Voltage	22K~57K= 2200K~5700K	WM= White & Milky	144	12W	83.3

Feature

Flexglo™ F22DT Three-side Emitting Dynamic Light (Silicone) is tunable from 2200K to 5700K, 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 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.
*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 has an 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-F22DT-VB
Voltage (V)	24
Current (mA/m)	500
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
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F22DT-VB-24CV-22-57K-WM-144-12W-83.3	2200~5700K	2238±102K	350lm	107lm	<2.3nm
		5669±355K	400lm	122lm	<2.3nm

Max. Running Length Input: DC24V

Type	Snap Connector		Silicone Injection-moulded Connector	
IP Rating	IP67		IP68	
Item Code	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed
C-SFR-F22DT-12W	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft

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.
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.

Flexglo™ F22AT -Three-side Emitting RGB Light (Silicone)

5 year Warranty
Solvents Resistant
UV Resistant
Flame Resistant
Salt Water Resistant
IK08 Protection

Certification Mark	ⓤL	ⓤL	C E	⑧
Test Standard/Directive	UL2108 Class 2	UL2108 Non Class 2	CE-EMC	IS 10322
Certificate Serial Number	20180801-E360029	20180312-E360029	SZEM1712012372LMV	R-41128376
Report Reference	E360029-20130322	E360029-20180309	SZEM171201237201	NO.20190425001

RGB

Ambient Working Temperature
12W/m -40~55℃ /-40~131°F

Ambient Installation Temperature
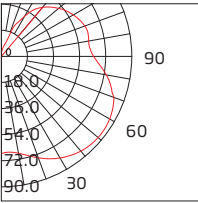≥ −40℃ /-40°F

Storage Temperature
-40 ~ 60℃ /-40~140°F

Max. Mounting Surface Temperature
85℃ /185°F
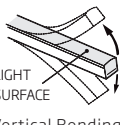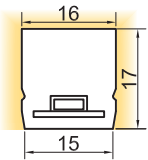
Constant Current
CV DC24V

C-SFR-F22AT-VB

C-SFR-F22AT-VB-24CV-RGB-WM-84-12W-83.3

UNIT: cd
~C90/270
AVERAGE BEAM ANGLE (50%): 272.0°

Min. Bending Diameter
300mm/11.81in

Min. Cutting Length
83.3mm/3.28in, 7LEDs

16
17
15

LIGHT SURFACE

Vertical Bending

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™ F22AT Three-side Emitting RGB Light (silicone) is a color changing product with tri-chip SMD5050 RGB LEDs as light source, RGB color changing is achievable via a 3-channel PWM controller or any compatible DMX-512 controller. 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 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.

This product has an 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.
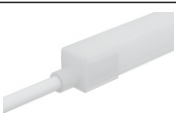
Electrical Parameter

Category	C-SFR-F22AT-VB
Voltage (V)	24
Current (mA/m)	500
Power (W/m)	12
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

Item Code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F22AT-VB-24CV-RGB-WM-84-12W-83.3	Red	618-624nm	125lm	38lm	<3nm
	Green	522-530nm	350lm	107lm	<3nm
	Blue	468-474nm	70lm	21lm	<3nm
	R+G+B	R+G+B	545lm	166lm	N/A

Max. Running Length   Input: DC24V

Type	Silicone Injection-moulded Connector	
IP Rating	IP68	
Item Code	Single-end Feed	Double-end Feed
C-SFR-F22AT-12W	10m/32.8ft	20m/65.6ft

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.

Item Code

C	SFR	F22AT	VB	24CV	RGB	WM	84	12W	83.3
Company	Material	Product Series	Bending Direction	Voltage & Circuit Type	Color	Base & Lighting Surface	LEDs Qty/m	Power/m	Min. Cutting Length (mm)
Clear	SFR= (Silicone) Flex Ribbon	F22AT A=RGB Three-side Emitting	VB= Vertical Bending	DC24V & Constant Voltage	RGB	WM= White & Milky	84	12W	83.3

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

Certification

Certification Mark	(UL)	(UL)	CE	(S)
Test Standard/Directive	UL2108 Class 2	UL2108 Non Class 2	CE-EMC	IS 10322
Certificate Serial Number	20180801-E360029	20180312-E360029	SZEM1712012372LMV	R-41128376
Report Reference	E360029-20130322	E360029-20180309	SZEM171201237201	NO.20190425001

5 year Warranty · Solvents Resistant · UV Resistant · Flame Resistant · Salt Water Resistant · IK08 Protection

RGBW

Ambient Working Temperature 15W/m -40~45℃ /-40~113℉

Ambient Installation Temperature ≥ −40℃ /-40℉

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

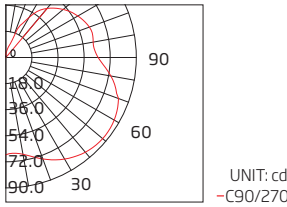**Max. Mounting Surface Temperature** 85℃ /185℉

CV Constant Current DC24V

C-SFR-F22ET-VB
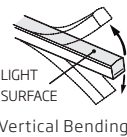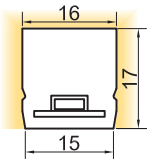
C-SFR-F22ET-VB-24CV-RGBW(27K)
WM-84-15W-83.3

UNIT: cd
−C90/270

AVERAGE BEAM ANGLE (50%): 272.0°

Min. Bending Diameter 300mm/11.81in

Min. Cutting Length 83.3mm/3.28in, 7LEDs

16 / 17 / 15

LIGHT SURFACE

Vertical Bending

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™ F22ET Three-side Emitting RGBW Light (silicone) is a color changing product with qua-chip 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 ℃, especially suitable for harsh environment application.

Combined with the adoption of the DryWire™ technology, the IP67 Silicone 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 has an 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-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

Item Code		Finished Product			LED
		Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F22ET-VB-24CV-RGBW(27K)-WM-84-15W-83.3	Red	618-624nm	110lm	34lm	<3nm
	Green	522-530nm	380lm	116lm	<3nm
	Blue	468-474nm	70lm	21lm	<3nm
	2700K	2725±145K	300lm	91lm	<2.3SDCM
C-SFR-F22ET-VB-24CV-RGBW(30K)-WM-84-15W-83.3	Red	618-624nm	110lm	34lm	<3nm
	Green	522-530nm	380lm	116lm	<3nm
	Blue	468-474nm	70lm	21lm	<3nm
	3000K	3045±175K	300lm	91lm	<2.3SDCM
C-SFR-F22ET-VB-24CV-RGBW(40K)-WM-84-15W-83.3	Red	618-624nm	110lm	34lm	<3nm
	Green	522-530nm	380lm	116lm	<3nm
	Blue	468-474nm	70lm	21lm	<3nm
	4000K	3985±275K	300lm	91lm	<2.3SDCM

Item Code

C	SFR	F22ET	VB	24CV	RGBW	WM	84	15W	83.3
Company	Material	Product Series	Bending Direction	Voltage & Circuit Type	Color	Base & Lighting Surface	LEDs Qty/m	Power/m	Min. Cutting Length (mm)
Clear	SFR= (Silicone) Flex Ribbon	F22ET E=RGBW Three-side Emitting	VB= Vertical Bending	DC24V & Constant Voltage	RGBW(27K)= RGB & 2700K RGBW(30K)= RGB & 3000K RGBW(40K)= RGB & 4000K	WM= White & Milky	84	15W	83.3

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

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.

F22 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
Swivel Connector IP20	VB	F22-VB-SW/FC-01/02-E-0.3m/1m 22AWG*2	N/A	N/A	N/A	N/A	N/A	N/A	F22-SW/EC
Snap Connector IP67	VB	F22-VB-SN/FC-01/02-E-0.3m/1m/3m/5m/10m/15m/20m 18AWG*2	F22-VB-SN/FC-01/02-SL-0.3m/1m/3m/5m/10m/15m/20m 18AWG*2	F22-VB-SN/FC-01/02-SR-0.3m/1m/3m/5m/10m/15m/20m 18AWG*2	F22-VB-SN/FC-01/02-B-0.3m/1m/3m/5m/10m/15m/20m 18AWG*2	N/A	F22-VB-SN/MC-PTF-01/02-0.3m/1m/3m 18AWG*2	F22-VB-SN/JU-01/02-0.3m/1m 18AWG*2	F22-VB-SN/EC
Socket Connector IP67	VB	F22-VB-SO/FC-01/02-E-0.3m/1m/3m/5m 18AWG*2	N/A	N/A	N/A	N/A	N/A	N/A	F22-SO/EC
Silicone Injection-moulded Connector IP68	VB	F22-VB-SIM/FC-01/02-E-0.3m/1m/3m/5m/10m/15m/20m 18AWG*2	F22-VB-SIM/FC-01/02-SL-0.3m/1m/3m/5m/10m/15m/20m 18AWG*2	F22-VB-SIM/FC-01/02-SR-0.3m/1m/3m/5m/10m/15m/20m 18AWG*2	F22-VB-SIM/FC-01/02-B-0.3m/1m/3m/5m/10m/15m/20m 18AWG*2	N/A	F22-VB-SIM/MC-PTF-0.3m/1m/3m 18AWG*2	F22-VB-SIM/JU-0.3m/1m 18AWG*2	F22-SIM/EC

F22 Mounting Profile

Picture	Name/Item Code	Installation Way	Dimension: mm
	Self-clinching Aluminum Profile F22-SLCA/PL-20/500/1000/2000MM		10.5 / 17.8