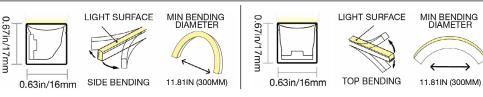


Customer:	Date:	
Project:		

RoHS



PROFILE CAPABILITIES



CERTIFICATIONS & FEATURES











TEMPERATURES

AMBIENT OPERATING TEMPERATURE:

Above Water 6W/m: -40°F to 149°F (-40°C to 65°C) Above Water ≤8W/m: -40°F to 140°F (-40°C to 60°C) Above Water 12W/m: -40°F to 131°F (-40°C to 55°C) Above Water 15W/m: -40°F to 122°F (-40°C to 50°C) Underwater ≤16.5W/m: -40°F to 95°F (-40°C to 35°C)

AMBIENT INSTALLATION TEMPERATURE: \geq -40°F (-40°C)

FIXTURE STORAGE TEMPERATURE:

-40°F to 140°F (-40°C to 60°C)

MAX MOUNTING SURFACE TEMPERATURE: 185°F (85°C)

HUMIDITY (NON-CONDENSING): 0-95%

THERMAL MANAGEMENT: Free Air Convection

FIXTURE ORDER CODE

Е			A			В				
INPUT CONNECTORS	SERIES	MATERIAL	PROFILE	BENDING	JACKET/BASE + LENS COLOR	LED FUNCTION	LED COLOR	CHIP + CRI		
See Page 10 to select input connector	A = Aqua Neon	1 = Silicone	F = Wave	1 = Side 2 = Top	W = White + Diffused	1 = Static	A = Amber B = Blue C = Green E = Red H = 2200K I = 2500K J = 2700K L = 3000K M = 3500K N = 4000K O = 4500K P = 5000K Q = 5700K	1 = Epistar SMD LED Chip Colors 2 = Epistar SMD LED Chip + CRI80 22, 27, 30, 35, 40 + 57K 3 = Epistar SMD LED Chip + CRI90 27, 30, 35 + 40K 4 = Epistar SMD LED Chip + CRI95 30K 6 = Nichia SMD LED Chip + CRI80		
	С	D		Е		F		+ CRI80 25, 27, 30, 35, 40, 45, 50 + 57K		

POWER	VOLTAGE + CIRCUIT TYPE	ORDER UNIT LENGTH*	OUTPUT CONNECTOR	MOUNTING PROFILE	POWER SUPPLIES & CONTROLS:
C = 1.82W/ft (6W/m) Epistar + CRIBO 22, 27, 30, 35, 40 + 57K D = 2.43W/ft (8W/m) Amber + Red E = 2.74W/ft (9W/m) Epistar + CRIBO 22, 27, 30, 35, 40 + 57K G = 3.66W/ft (12W/m) Blue + Green All Whites I = 4.57W/ft (15W/m) Epistar + CRIBO 22, 27, 30, 35, 40 + 57K	2C = 24V DC CC	D = 2.19in (55.6mm) Blue Green Whites F = 3.28in (83.3mm) Amber Red	See Page 10 to select output connector	See Page 13 to select mounting profile	By Others By GLLS

Note: Maximum IP and IK ratings achievable with appropriate accessories, and cable diameter: silicone static = 0.26in (6.5mm). The Constant Current (CC) Integrated Circuit extends max run length. Do not use a CC power supply, as it may cause damage.



Submersible Pool Rated Linear Flex Profile - Static Whites & Colors



Δ

MECHANICAL

ASSEMBLY

Fixtures are carefully assembled using high-quality components to ensure durability and performance. Each unit is built to meet strict specifications, with attention to electrical safety, thermal management, and optical alignment.

OVERALL & CUTTING LENGTHS

Fixtures feature defined overall lengths and specific cutting increments for easy customization. Cutting must be done at marked points to maintain proper function and consistent light output.

JACKET COLOR

The white jacket with diffused white lens covers provide a clean, uniform appearance while softening light output for reduced glare. It enhances visual comfort and delivers smooth, even illumination ideal for architectural and display applications.

BENDING RADIUS

Do not bend smaller than allowed minimum bend diameter, or may cause damage to the light & void warranty.

OPERATION

LIGHT ENGINE

Static Pulse Width Modulation (PWM) light engines deliver stable, flicker-free light at a fixed brightness. They offer consistent color and reliable performance for long-term applications.

ELECTRICAL

Designed to meet UL, CE, and RoHS standards, they feature overload, overvoltage, and short-circuit protection, along with low EMI and efficient thermal management for safe, reliable operation.

DIMMING

Dimming controls for 24V Static PWM systems include 0-10V, RDM DMX, and DALI protocols. These options allow smooth, flicker-free dimming while maintaining consistent color and performance across fixtures.

GENERAL

WARRANTY

Limited 5-Year Warranty against defects in materials and manufacturing. Coverage applies to properly installed and maintained products. Damage from misuse or improper installation is not covered. GLLS may repair, replace, or issue credit for eligible claims.

LUMEN MAINTENANCE

GLLS static lighting fixtures are tested to IES LM-84 and projected with IES TM-28 to ensure consistent lumen maintenance. Fixtures are designed to retain at least 70% of their initial brightness (L70) over a 10-year lifespan when properly installed and operated.

CERTIFICATION

Tested to UL 676 by Underwriters Laboratory for use in the USA and Canada. Exceeds CSA C22.2, CE, and RoHS standards. Must be used under Class 2 ratings to maintain certification.

UL Certificate #: E509134

Report Referance #: E509134-20190918

TESTING

OPTICAL TESTING

TEST	RESULTS
Spectrum Analysis	IES LM 79 (Lumen, CCT, CRI, XY, SDCM, Wavelength)
Photometric Distribution	IES LM 79
Lumen Maintenance & Lifetime	IES LM 84 & IES TM28

ENVIRONMENTAL TESTING

TEST	RESULTS
Salt Water Immersion	IEC60598-1, Sailinity 4%
Salt Spray Test	IEC60068-2-11
Outdoor Exposure	Manufacturer-defined
Flame Resistance	UL94
UV Exposure	ASTMG 154, ISO 4892-3, UVA @ 340nm & 55
IPX8	EN 60598-1: 2015+A1:2018 Clause 9.2.2 & 9.2.8
Temperature Shock(Silicone)	Manufacturer-defined, -40°C - 60°C (typical temperature range)
Constant Temperature	Manufacturer-defined
12mm Needle Flame Test (Silicone)	IEC60695-11-5
650 Glow-wire Test (Silicone)	IEC60695-2-10

TEMPERATURE TESTING

TEST	RESULTS	
Normal Temperature Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21	
Abnormal Operation Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21	

DURABILITY TESTING

TEST	RESULTS
Bending Test	Manufacturer-defined, 500 cycles
Tensile Test	Manufacturer-defined, > The weight of light in max.
Twist Test	Manufacturer-defined, >200 cycles
Ball Impact	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
IK	IEC62262





В

LED COLORS





















FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - SIDE BEND - 8W/M + 12W/M

COLOR	LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC	2 CONNECTORS FULL/DYNAMIC	FIXTURE COLOR TOLERANCE	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN	LEGACY ORDER CODE
RED	Epistar SMD LED Chip	33 LEDs/ft (108 LEDs/m)	31.5ft (9.6m) / N/A	N/A / N/A	N/A	618-624nm	N/A	N/A	50lm/ft (165lm/m)	SF16E1012WERED24PO
GREEN	Epistar SMD LED Chip	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	N/A	522-528nm	N/A	N/A	137lm/ft (450lm/m)	SF16E1012WEGRE24PO
BLUE	Epistar SMD LED Chip	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	N/A	468-474nm	N/A	N/A	34lm/ft (110lm/m)	SF16E1012WEBLU24PO
AMBER	Epistar SMD LED Chip	33 LEDs/ft (108 LEDs/m)	31.5ft (9.6m) / N/A	N/A / N/A	N/A	588-594nm	N/A	N/A	50lm/ft (165lm/m)	SF16E1012WEAMB24PO
2200K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	2238 ± 102K	N/A	N/A	116lm/ft (380lm/m)	SF16E1012WE22K24PO
2700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	143lm/ft (470lm/m)	SF16E1012WE27K24PO
2700K	Epistar SMD LED Chip + CRI90	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	128lm/ft (420lm/m)	SF16E1012WE27R24PO
3000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	143lm/ft (470lm/m)	SF16E1012WE30K24PO
3000K	Epistar SMD LED Chip + CRI90	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	128lm/ft (420lm/m)	SF16E1012WE30R24PO
3000K	Epistar SMD LED Chip + CRI95	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	110lm/ft (360lm/m)	SF16E1012WE30R524PO
3500K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	146lm/ft (480lm/m)	SF16E1012WE35K24PO
3500K	Epistar SMD LED Chip + CRI90	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	131lm/ft (430lm/m)	SF16E1012WE35R24PO
4000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	146lm/ft (480lm/m)	SF16E1012WE40K24PO
4000K	Epistar SMD LED Chip + CRI90	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	131lm/ft (430lm/m)	SF16E1012WE40R24PO
5700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	5669 ± 355K	N/A	N/A	146lm/ft (480lm/m)	SF16E1012WE57K24PO

Note: Run length is based on a static full load. Silicone products maintain <3 SDCM within a single production run and <5 SDCM between production runs. As per CLASS 2 power supply standards, the maximum allowable fixture power is limited to a single 100W supply. Double Feeding is Prohibited.





В

LED COLORS











FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - SIDE BEND - 6W/M

COLOR	LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC	2 CONNECTORS FULL/DYNAMIC	FIXTURE COLOR TOLERANCE	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN	LEGACY ORDER CODE
2200K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	2238 ± 102K	N/A	N/A	58lm/ft (190lm/m)	SF16E1012WE22K24DC6P
2700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	72lm/ft (235lm/m)	SF16E1012WE27K24DC6P
3000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	72lm/ft (235lm/m)	SF16E1012WE30K24DC6P
3500K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	73lm/ft (240lm/m)	SF16E1012WE35K24DC6P
4000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	73lm/ft (240lm/m)	SF16E1012WE40K24DC6P
5700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	5669 ± 355K	N/A	N/A	73lm/ft (240lm/m)	SF16E1012WE57K24DC6P

FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - SIDE BEND - 9W/M

COLOR	LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC	2 CONNECTORS FULL/DYNAMIC	FIXTURE COLOR TOLERANCE	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN COUNT	LEGACY ORDER CODE
2200K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	2238 ± 102K	N/A	N/A	87lm/ft (285lm/m)	SF16E1012WE22K24DC9P
2700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	107lm/ft (350lm/m)	SF16E1012WE27K24DC9P
3000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	107lm/ft (350lm/m)	SF16E1012WE30K24DC9P
3500K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	110lm/ft (360lm/m)	SF16E1012WE35K24DC9P
4000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	110lm/ft (360lm/m)	SF16E1012WE40K24DC9P
5700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	5669 ± 355K	N/A	N/A	110lm/ft (360lm/m)	SF16E1012WE57K24DC9P

Note: Run length is based on a static full load. Silicone products maintain ≤3 SDCM within a single production run and <5 SDCM between production runs. As per CLASS 2 power supply standards, the maximum allowable fixture power is limited to a single 100W supply. Double Feeding is Prohibited.





В

LED COLORS



















FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - SIDE BEND - 12W/M

COLOR + CRI LED COUNT FULL/DYNAMIC FULL/DYNAMIC TOLERANCE CCT LED CNI TOLERANCE COUNT ORDER										
LED Chip + CRI80	COLOR		LED COUNT					LED CRI		LEGACY ORDER CODE
LED Chip + CRI80	2500K	LED Chip +			N/A / N/A	3 SDCM	2460 ± 120K	N/A	N/A	SF16E1012WN25K24PO
LED Chip + CRI80	2700K	LED Chip +			N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	SF16E1012WN27K24PO
LED Chip + CRI80 C	3000K	LED Chip +			N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	SF16E1012WN30K24PO
LED Chip + CRI80 (108 LEDs/m) / N/A / N/A (400lm/m) 4500K Nichia SMD LED Chip + CRI80 33 LEDs/ft (108 LEDs/m) 21.0ft (6.4m) N/A / N/A 3 SDCM 4503 ± 243K N/A N/A N/A 122lm/ft (400lm/m) SF16E1012 (400lm/m) 5000K Nichia SMD LED Chip + CRI80 33 LEDs/ft (108 LEDs/m) / N/A 21.0ft (6.4m) N/A / N/A 3 SDCM 5029 ± 283K N/A N/A N/A 122lm/ft (400lm/m) SF16E1012 (400lm/m) 5700K Nichia SMD 33 LEDs/ft 21.0ft (6.4m) N/A / N/A 3 SDCM 5669 ± 355K N/A N/A N/A 122lm/ft SF16E1012 (500m)	3500K	LED Chip +			N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	SF16E1012WN35K24PO
LED Chip + CRI80 / N/A (400lm/m) / N/A (400lm/m) 5000K Nichia SMD LED S/ft 21.0ft (6.4m) N/A / N/A 3 SDCM 5029 ± 283K N/A N/A N/A 122lm/ft (400lm/m) 5000K Nichia SMD 33 LEDs/ft 21.0ft (6.4m) N/A / N/A 3 SDCM 5669 ± 355K N/A N/A 122lm/ft SF16E1012	4000K	LED Chip +			N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	SF16E1012WN40K24PO
LED Chip + CRI80 (400lm/m) / N/A (400lm/m) 5700K Nichia SMD 33 LEDs/ft 21.0ft (6.4m) N/A / N/A 3 SDCM 5669 ± 355K N/A N/A 122lm/ft SF16E1012	4500K	LED Chip +			N/A / N/A	3 SDCM	4503 ± 243K	N/A	N/A	SF16E1012WN45K24PO
	5000K	LED Chip +		, ,	N/A / N/A	3 SDCM	5029 ± 283K	N/A	N/A	SF16E1012WN50K24PO
CRI80	5700K	LED Chip +			N/A / N/A	3 SDCM	5669 ± 355K	N/A	N/A	SF16E1012WN57K24PO

FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - SIDE BEND - 15W/M

COLOR	LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC	2 CONNECTORS FULL/DYNAMIC	FIXTURE COLOR TOLERANCE	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN	LEGACY ORDER CODE
2200K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	2238 ± 102K	N/A	N/A	152lm/ft (500lm/m)	SH16E1012WE22K24DCPO
2700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	183lm/ft (600lm/m)	SH16E1012WE27K24DCPO
3000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	183lm/ft (600lm/m)	SH16E1012WE30K24DCPO
3500K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	213.4lm/ft (700lm/m)	SH16E1012WE35K24DCPO
4000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	213.4lm/ft (700lm/m)	SH16E1012WE40K24DCPO
5700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	5669 ± 355K	N/A	N/A	213.4lm/ft (700lm/m)	SH16E1012WE57K24DCPO

Note: Run length is based on a static full load. Silicone products maintain ≤3 SDCM within a single production run and <5 SDCM between production runs. As per CLASS 2 power supply standards, the maximum allowable fixture power is limited to a single 100W supply. Double Feeding is Prohibited.



Submersible Pool Rated Linear Flex Profile - Static Whites & Colors



В

LED COLORS









AMBER













FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - TOP BEND - 8W/M + 12W/M

COLOR	LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC	2 CONNECTORS FULL/DYNAMIC	FIXTURE COLOR TOLERANCE	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN	LEGACY ORDER CODE
RED	Epistar SMD LED Chip	33 LEDs/ft (108 LEDs/m)	31.5ft (9.6m) / N/A	N/A / N/A	N/A	618-624nm	N/A	N/A	56lm/ft (185lm/m)	SF16E0012WERED24PO
GREEN	Epistar SMD LED Chip	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	N/A	522-528nm	N/A	N/A	168lm/ft (550lm/m)	SF16E0012WEGRE24PO
BLUE	Epistar SMD LED Chip	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	N/A	468-474nm	N/A	N/A	37lm/ft (120lm/m)	SF16E0012WEBLU24PO
AMBER	Epistar SMD LED Chip	33 LEDs/ft (108 LEDs/m)	31.5ft (9.6m) / N/A	N/A / N/A	N/A	588-594nm	N/A	N/A	56lm/ft (185lm/m)	SF16E0012WEAMB24PO
2200K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	2238 ± 102K	N/A	N/A	137lm/ft (450lm/m)	SF16E0012WE22K24PO
2700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	172lm/ft (565lm/m)	SF16E0012WE27K24PO
2700K	Epistar SMD LED Chip + CRI90	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	146lm/ft (480lm/m)	SF16E0012WE27R24PO
3000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	172lm/ft (565lm/m)	SF16E0012WE30K24PO
3000K	Epistar SMD LED Chip + CRI90	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	146lm/ft (480lm/m)	SF16E0012WE30R24PO
3000K	Epistar SMD LED Chip + CRI95	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	122lm/ft (400lm/m)	SF16E0012WE30R524PO
3500K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	177lm/ft (580lm/m)	SF16E0012WE35K24PO
3500K	Epistar SMD LED Chip + CRI90	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	152lm/ft (500lm/m)	SF16E0012WE35R24PO
4000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	177lm/ft (580lm/m)	SF16E0012WE40K24PO
4000K	Epistar SMD LED Chip + CRI90	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	152lm/ft (500lm/m)	SF16E0012WE40R24PO
5700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	5669 ± 355K	N/A	N/A	177lm/ft (580lm/m)	SF16E0012WE57K24PO

Note: Run length is based on a static full load. Silicone products maintain ≤3 SDCM within a single production run and <5 SDCM between production runs. As per CLASS 2 power supply standards, the maximum allowable fixture power is limited to a single 100W supply. Double Feeding is Prohibited.





В

LED COLORS













FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - TOP BEND - 6W/M

COLOR	LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC	2 CONNECTORS FULL/DYNAMIC	FIXTURE COLOR TOLERANCE	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN	LEGACY ORDER CODE
2200K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	2238 ± 102K	N/A	N/A	69lm/ft (225lm/m)	SF16E0012WE22K24DC6P
2700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	85lm/ft (280lm/m)	SF16E0012WE27K24DC6P
3000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	85lm/ft (280lm/m)	SF16E0012WE30K24DC6P
3500K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	88lm/ft (290lm/m)	SF16E0012WE35K24DC6P
4000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	88lm/ft (290lm/m)	SF16E0012WE40K24DC6P
5700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	42ft (12.8m) / N/A	N/A / N/A	3 SDCM	5669 ± 355K	N/A	N/A	88lm/ft (290lm/m)	SF16E0012WE57K24DC6P

FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - TOP BEND - 9W/M

COLOR	LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC	2 CONNECTORS FULL/DYNAMIC	FIXTURE COLOR TOLERANCE	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN	LEGACY ORDER CODE
2200K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	2238 ± 102K	N/A	N/A	104lm/ft (340lm/m)	SF16E0012WE22K24DC9P
2700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	128lm/ft (420lm/m)	SF16E0012WE27K24DC9P
3000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	128lm/ft (420lm/m)	SF16E0012WE30K24DC9P
3500K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	134lm/ft (440lm/m)	SF16E0012WE35K24DC9P
4000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	134lm/ft (440lm/m)	SF16E0012WE40K24DC9P
5700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	28ft (8.53m) / N/A	N/A / N/A	3 SDCM	5669 ± 355K	N/A	N/A	134lm/ft (440lm/m)	SF16E0012WE57K24DC9P

Note: Run length is based on a static full load. Silicone products maintain \leq 3 SDCM within a single production run and <5 SDCM between production runs. As per CLASS 2 power supply standards, the maximum allowable fixture power is limited to a single 100W supply. Double Feeding is Prohibited.





В

LED COLORS



















FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - TOP BEND - 12W/M

LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC	2 CONNECTORS FULL/DYNAMIC	FIXTURE COLOR TOLERANCE	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN COUNT	LEGACY ORDER CODE
Nichia SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	2460 ± 120K	N/A	N/A	128lm/ft (420lm/m)	SF16E0012WN25K24PO
Nichia SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	137lm/ft (450lm/m)	SF16E0012WN27K24PO
Nichia SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	137lm/ft (450lm/m)	SF16E0012WN30K24PO
Nichia SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	137lm/ft (450lm/m)	SF16E0012WN35K24PO
Nichia SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	137lm/ft (450lm/m)	SF16E0012WN40K24PO
Nichia SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	4503 ± 243K	N/A	N/A	137lm/ft (450lm/m)	SF16E0012WN45K24PO
Nichia SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	5029 ± 283K	N/A	N/A	137lm/ft (450lm/m)	SF16E0012WN50K24PO
Nichia SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	21.0ft (6.4m) / N/A	N/A / N/A	3 SDCM	5669 ± 355K	N/A	N/A	137lm/ft (450lm/m)	SF16E0012WN57K24PO
	+ CRI Nichia SMD LED Chip + CRI80 Nichia SMD LED Chip + CRI80	Nichia SMD SMD LED S/ft	CRI	CRI	Hard	CRI	FULL/DYNAMIC FULL/DYNAMIC TOLERANCE CCT LED CHI	Nichia SMD SMD LED Chip + CRI80 CRI CRIP CRI80 CRIP CRI80 CRIP CRI80 CRIP CRI80 CRIP CRI80 CRIP CRI80 CRIP CRIR CRIP CRIP CRIR CRIP CRIP	Tolerance Tolerance Tolerance CCT Tolerance COUNT

FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - TOP BEND - 15W/M

COLOR	LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC	2 CONNECTORS FULL/DYNAMIC	FIXTURE COLOR TOLERANCE	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN	LEGACY ORDER CODE
2200K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	2238 ± 102K	N/A	N/A	183lm/ft (600lm/m)	SH16E0012WE22K24DCPO
2700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	2725 ± 145K	N/A	N/A	213.4lm/ft (700lm/m)	SH16E0012WE27K24DCPO
3000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	3045 ± 175K	N/A	N/A	213.4lm/ft (700lm/m)	SH16E0012WE30K24DCPO
3500K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	3465 ± 245K	N/A	N/A	244lm/ft (800lm/m)	SH16E0012WE35K24DCPO
4000K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	3985 ± 275K	N/A	N/A	244lm/ft (800lm/m)	SH16E0012WE40K24DCPO
5700K	Epistar SMD LED Chip + CRI80	33 LEDs/ft (108 LEDs/m)	16.8ft (5.12m) / N/A	N/A / N/A	3 SDCM	5669 ± 355K	N/A	N/A	244lm/ft (800lm/m)	SH16E0012WE57K24DCPO

Note: Run length is based on a static full load. Silicone products maintain ≤3 SDCM within a single production run and <5 SDCM between production runs. As per CLASS 2 power supply standards, the maximum allowable fixture power is limited to a single 100W supply. Double Feeding is Prohibited.



Submersible Pool Rated Linear Flex Profile - Static Whites & Colors



С

POWER & VOLTAGE

COLOR	VOLTAGE + CIRCUIT TYPE	POWER CONSUMPTION	COLOR	VOLTAGE + CIRCUIT TYPE	POWER CONSUMPTION	
RED		2.43W/ft (8W/m)	2200K			
GREEN		3.66W/ft (12W/m)	2700K			
BLUE		3.66W/ft (12W/m)	3000K		1 00\\/(#\/(0\\//_)	
AMBER		2.43W/ft (8W/m)	3500K		1.82W/ft (6W/m)	
2200K			4000K			
2500K			5700K			
2700K	24V DC CC		2200K			
3000K		3.66W/ft (12W/m)	2700K	-		
3500K			3000K		0.74\\\/(ft./0\\\//\)	
4000K			3500K	24V DC CC	2.74W/ft (9W/m)	
4500K			4000K			
5000K			5700K			
5700K			2200K			
The Constant Cu	rrent (CC) Integrated Circuit exter	nde may run length. Do not use	2700K			
	oly, as it may cause damage.	nds max rum length. Do not use	3000K			
			3500K		4.57W/ft (15W/m)	
			4000K			
			5700K			

D

CUTTING INSTRUCTIONS

COLOR	ORDER UNIT (CUTTING UNIT)
RED	3.28in (83.3mm)
GREEN	2.19in (55.6mm)
BLUE	2.19in (55.6mm)
AMBER	3.28in (83.3mm)
2200K	
2500K	
2700K	
3000K	
3500K	2.19in (55.6mm)
4000K	
4500K	
5000K	
5700K	



Submersible Pool Rated Linear Flex Profile - Static Whites & Colors



Ε

COMPATIBLE CONNECTORS

INPUT - 01

INPUT CONNECTOR TYPE INPUT ORIENTATION + TYPE INPUT CABLE LENGTH (LEAD WIRE)

OUTPUT - 02

OUTPUT CONNECTOR TYPE	OUTPUT ORIENTATION + TYPE	OUTPUT CABLE LENGTH (LEAD WIRE)
4 = Silicone Submersible	A = End Exit B = Bottom Exit C = Side Left Exit D = Side Right Exit I = End Cap	4 = 16ft (5m) 5 = 32.8ft (10m) 8 = N/A

LEGACY CONNECTOR ORDER CODE

XX	16E	Х	00	XX	XX	Х	XX	XXX	Х
PRODUCT TYPE	PROFILE	BENDING	LIGHT EMITTING	FUNCTIONALITY	CONNECTOR TYPE	FIXTURE END	EXIT TYPE	LENGTH	
FA = Factory Accessories	16E = Wave	1 = Side 2 = Top	00 = 16E	2W = Static/DTW 3W = Tunable White/SPI-Pixel 0W = For End Cap	PO = Submersible	1 = Input Side 2 = Output Side 0 = Jumpers/T-feeds/ Seamless Bottom/ Seamless End 3 = Input/Output	EN = End BO = Bottom SL = Side Left SR = Side Right EC = End Cap	05M = 16ft (5m) 10M = 32.81ft (10m) 000 = For End Cap	P = Power or For End Cap S = Signal & Power



Submersible Pool Rated Linear Flex Profile - Static Whites & Colors



SILICONE SUBMERSIBLE CONNECTOR



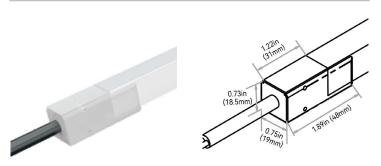


NOTES:

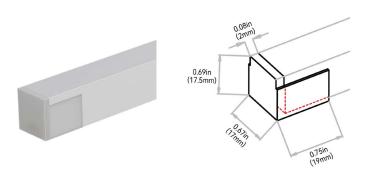
- 1. Connector Tolerance ±0.02in (0.5mm)
- 2. Cable diameter: Static, Tunable White & SPI Silicone = 0.26in (6.5mm)
- 3. Do not apply force to the feed cable
- 4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop
 5. Silicone Submersible UL676 Connectors - Top bending fixture not
- available for Tunable White

IP68; extremely durable, underwater, UL676 rated. Recommended for; long-term submersed in wet environments up to the depth of 16.40ft (5m) (water is skin safe for extended periods); high temperature and humidity environments (mounting surface temperature <140°F(60°C); custom predetermined lengths and larger connector; harsh working conditions & increased handling forces during installation. Custom factory assembly.

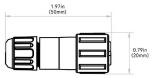
END EXIT: 4-A-#



END CAP: 4-I-8

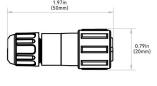


SCREW LOCK CONNECTOR ACCESSORY - IP67



BOTTOM EXIT: 4-B-#





NOTE: The tolerance is ±0.08in (2mm).

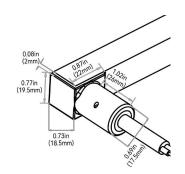




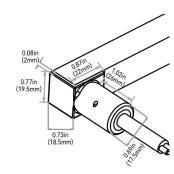
SIDE LEFT EXIT: 4-C-#

SIDE RIGHT EXIT: 4-D-#











MOUNTING PROFILES

MOUNTING PROFILE TYPE	STANDARD LENGTH	PROFILE	COLOR
P1 = Plastic Reinforced	2 = 1.38in (35mm)		
	3 = 19.68in (500mm)		
	5 = 39.37in (1000mm)		1 = Standard
	6 = 78.74in (2000mm)		
C1 = Silicone Flexible	F = 2.16in (55mm)	F = Wave	
OT - SINCOTIE I TEXIDIE	B = 4.33in (110mm)		2 = Black
	C = 7.87in (200mm)		3 = White
	3 = 19.68in (500mm)		0 = Custom
	5 = 39.37in (1000mm)		



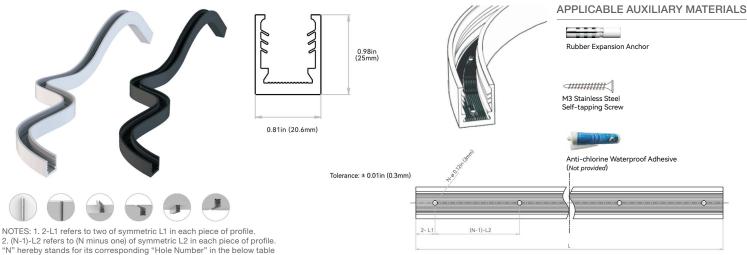
Submersible Pool Rated Linear Flex Profile - Static Whites & Colors



B

SILICONE PROFILE - FLEXIBLE

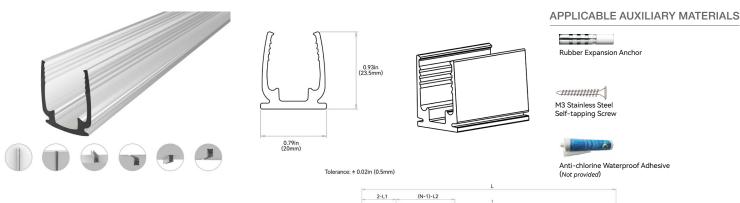
An all-in-one mounting profile designed to unleash your creativity. This profile not only provides flexibility in installation methods, but also overcomes bending limitations by offering both top and side bending in a single profile. Fully encapsulated in UL-certified silicone, it excels in UV, weather, and corrosion resistance, making it suitable for underwater, high and low temperature environments. Elegant and square in appearance, it is available in black or white standard colors, or bespoke colors to blend in with the background. Supported by innovative serrated silicone fins, its clamping strength is strong enough to secure any installation method. Please refer to install manual for proper installation practices.



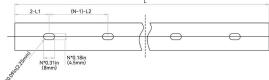
ORDER CODE	LEGACY ORDER CODE: WHITE	LEGACY ORDER CODE: BLACK	STANDARD LENGTH	L1	L2	SLOTTED HOLE	HOLE #
C1-F-F-X	CH16FAN5C5SEW	CH16FAN5C5SEB	2.16in (55mm)	0.49in (12.5mm)	1.18in (30mm)	Ø 0.12in (3mm)	2
C1-B-F-X	CH16FAN1C1SEW	CH16FAN1C1SEB	4.33in (110mm)	0.46in (11.6mm)	3.48in (88.4mm)	Ø 0.12in (3mm)	2
C1-C-F-X	CH16FAN0M2SEW	CH16FAN0M2SEB	7.87in (200mm)	0.46in (11.6mm)	3.48in (88.4mm)	Ø 0.12in (3mm)	3
C1-3-F-X	CH16FAN0M5SEW	CH16FAN0M5SEB	19.68in (500mm)	1.14in (29mm)	3.48in (88.4mm)	Ø 0.12in (3mm)	6
C1-5-F-X	CH16FAN01MSEW	CH16FAN01MSEB	39.37in (1000mm)	0.54in (13.8mm)	3.48in (88.4mm)	Ø 0.12in (3mm)	12

PLASTIC PROFILE - REINFORCED

High Quality rigid plastic designed to securely hold fixtures. Recommended for use in extreme environments susceptible to increased water/humidity (SPA's and pools). Please refer to install manual for proper installation practices.



NOTES: 1. 2-L1 refers to two of symmetric L1 in each piece of profile. 2. (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



ORDER CODE	LEGACY ORDER CODE	STANDARD LENGTH	L1	L2	SLOTTED HOLE	HOLE #
P1-2-F-1	CL16RTP3C5SD	1.38in (35mm)	0.69in (17.5mm)	N/A	0.18*0.31in (4.5*8mm)	1
P1-3-F-1	CH16RTP0M5SD	19.68in (500mm)	1.97in (50mm)	7.87in (200mm)	0.18*0.31in (4.5*8mm)	3
P1-5-F-1	CH16RTP01MSD	39.37in (1000mm)	3.93in (100mm)	7.87in (200mm)	0.18*0.31in (4.5*8mm)	5
P1-6-F-1	CH16RTP02MSD	78.74in (2000mm)	3.93in (100mm)	7.87in (200mm)	0.18*0.31in (4.5*8mm)	10

