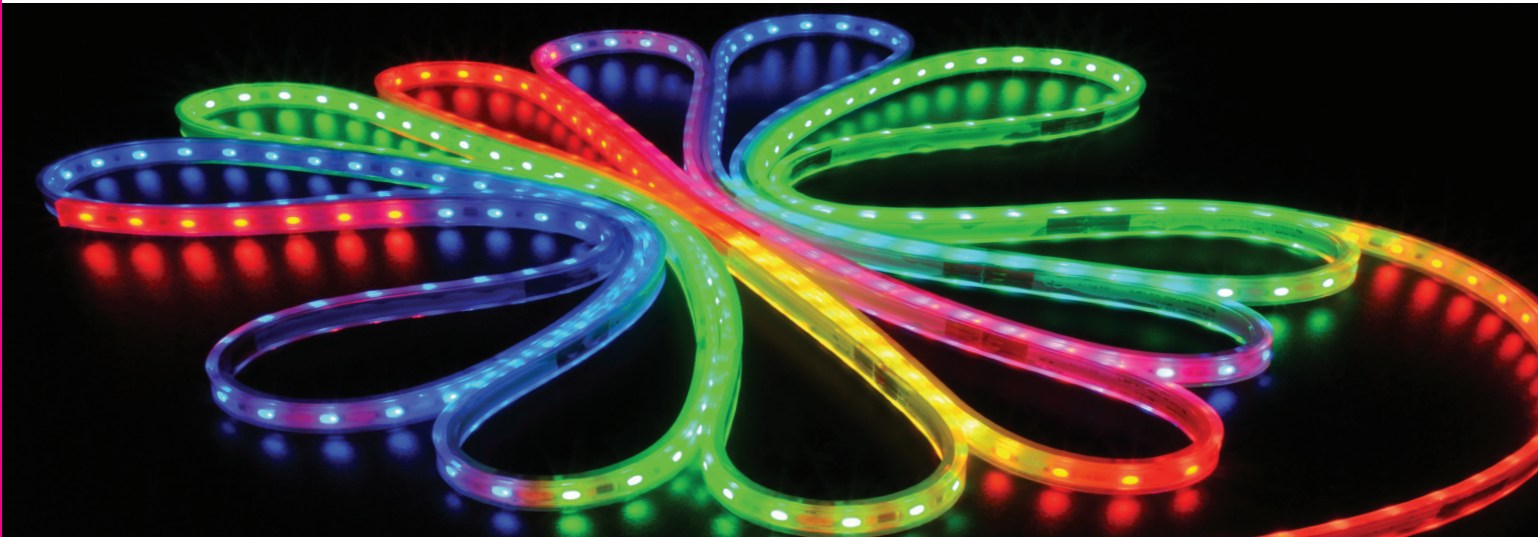




VIVID SILICONE LIGHT STRIP RGB

Table of Contents

Specifications	2-4	Mounting Hardware	7-8
Technical Specification	2-3	Aluminum	7
Physical Specification	3	Plastic	7
		Plastic & Aluminum	8
Connectors	4-6	Packaging	8
Snap	4	Testing	9-10
Seamless	5	Certifications	9
Male and Female	6	Fixture Testing	9
Anti-Wicking Ferrule	6	Charts	10
Part Number Naming Convention	6		

Technical Specifications

Light Dimension 0.61 x 0.24in (15.5 x 6mm) 18 LEDs/ft (60 LEDs/m)

Output	RGB
LED Light	SMD, Tri-Chip RGB LED
Max Run Length	
Single Feed (Dynamic)	49.2ft (15m)
Single Feed (Full Load)	32.8ft (10m)
Double Feed (Dynamic)	98.4ft (30m)
Double Feed (Full Load)	65.6ft (20m)
Light Surface	Flat profile 160°
Lumen Maintenance	70,000 Hours L70 @ 25°C : 90,000 L50 @ 25°C 50,000 Hours L70 @ 50°C : 70,000 Hours L50 @ 50°C
Electrical	
Input Voltage	24V DC
Power Consumption	3.66W/ft (12W/m)
Physical	
LED Count	18 LED/ft (60 LEDs/m)
LED Spacing	0.65in (16.67mm)
Cutting Unit Length	3.94in (100mm) (6 LEDs)
Thermal Management	Free air convection
Fixture Connections	End, side & bottom lead wires
Minimum Bend Diameter	1.97in (50mm) (Top Bending)
Temperature Ranges	
Installation	-40°F to 122°F (-40°C to 50°C)
Operating	-40°F to 131°F (-40°C to 55°C)
Humidity	0-95% non condensing
Dependability	
Warranty	5 Year Limited Warranty
Safety	
Certification	Tested to UL & CSA by Underwriters Laboratory for use in USA and Canada, complies with California Title 24 Requirements, Lighting Facts. Exceeds ANSI C78.377A, CE & RoHS Compliant.
IP Rating	IP67/IP40 with appropriately rated accessories

*1 Max Run Length: Dynamic = when the R, G, B channels are not operating at 100%
 Full Load = when the R, G, B channels are operating at 100%

Technical Specifications

Available Colors

Color	CCT Wavelength
Red	618-624nm
Green	522-528nm
Blue	468-474nm
R+G+B	White

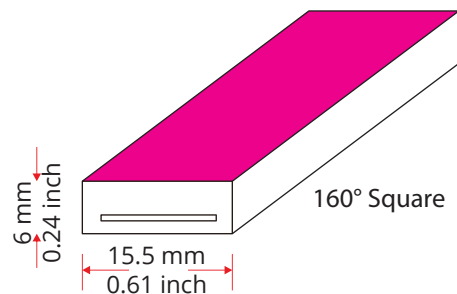
Lumen Count

Color	Per Foot	Per Meter	Power/m
Red	>32.01lm	>105lm	
Green	>85.36lm	>280lm	
Blue	>16.77lm	>55lm	
R+G+B	>134.15lm	>440lm	3.66W/ft (12W/m)

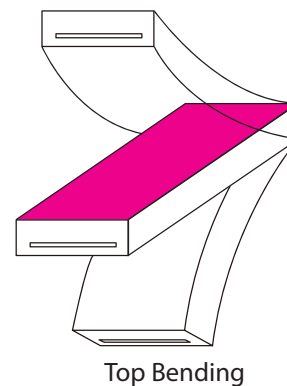
Physical Specifications



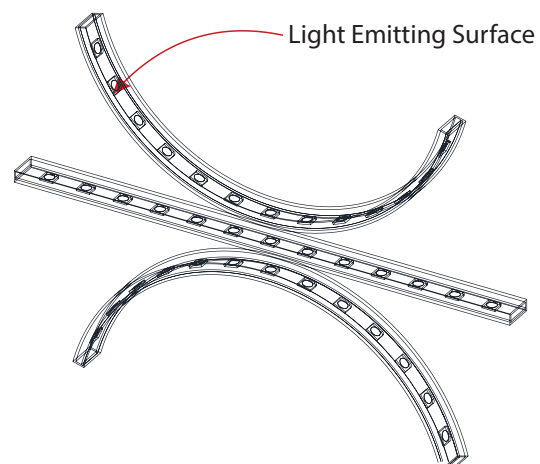
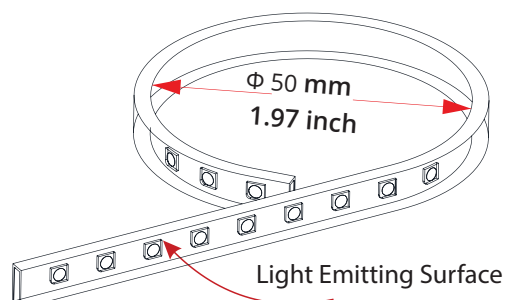
Light Profile



Bending Direction



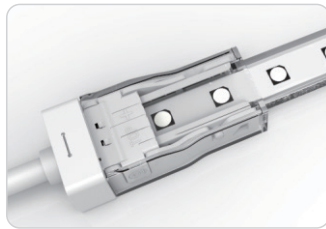
Minimum Bending Diameter



Connectors

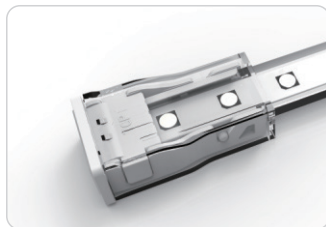
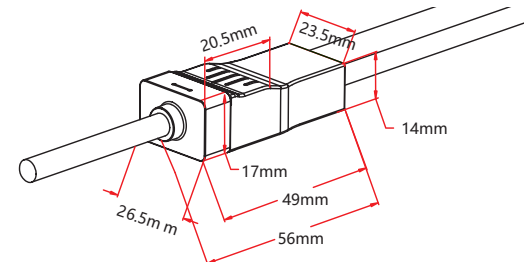
Snap Connectors

IP67: Rated for outdoor use.
Factory Assembly or DIY.



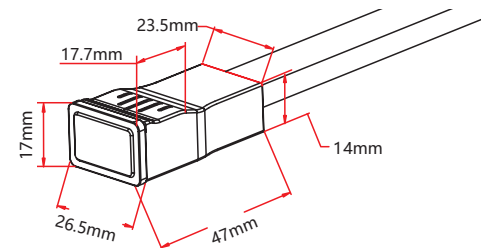
Snap End Exit

LA-15G-I-00-4W-SC-1-EN-XXX-S
LA-15G-I-00-4W-SC-2-EN-XXX-S



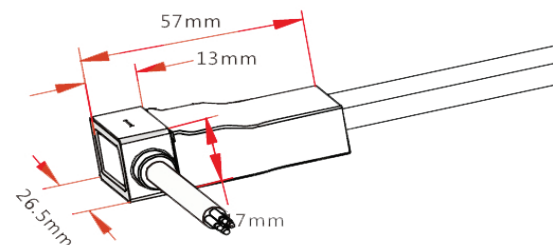
Snap End Cap

LA-15G-I-00-0W-SC-0-EC



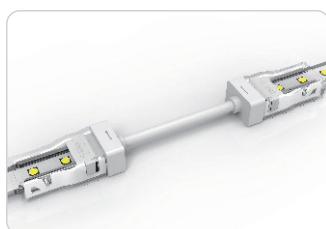
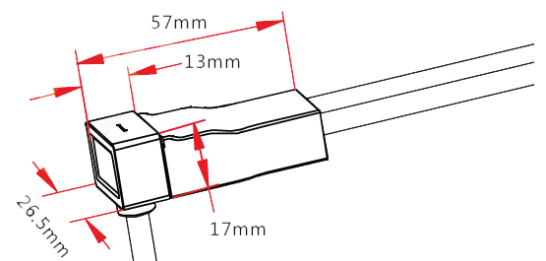
Snap Side Exit

LA-15G-I-00-4W-SC-1-SR-XXX-S
LA-15G-I-00-4W-SC-1-SL-XXX-S
LA-15G-I-00-4W-SC-2-SR-XXX-S
LA-15G-I-00-4W-SC-2-SL-XXX-S



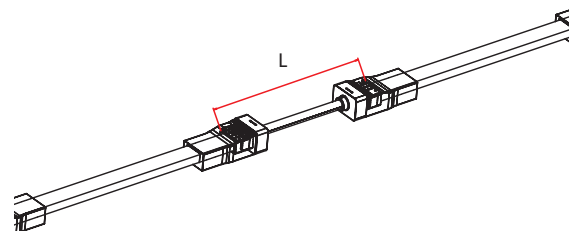
Snap Bottom Exit

LA-15G-I-00-4W-SC-1-BO-XXX-S
LA-15G-I-00-4W-SC-2-BO-XXX-S



Snap Jumper

LA-15G-I-00-4W-SC-0-EJ-XXX-S



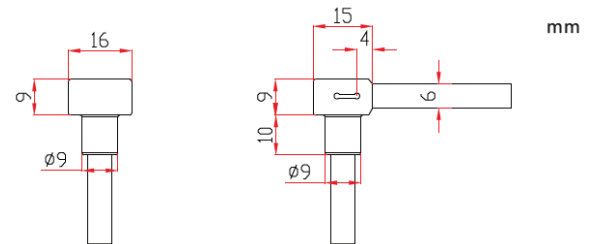
Connectors

Seamless Connectors



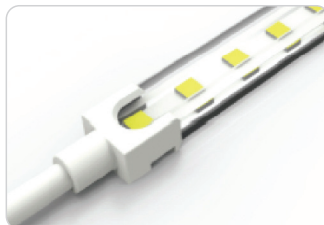
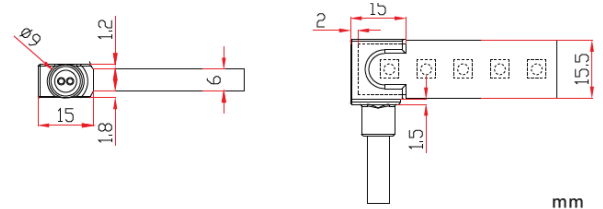
Seamless Bottom Exit

LA-15G-I-00-4W-SE-1-BO-XXX-S
LA-15G-I-00-4W-SE-2-BO-XXX-S



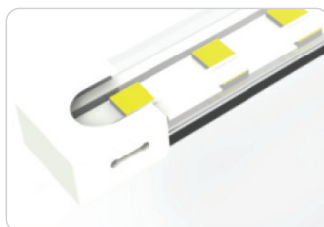
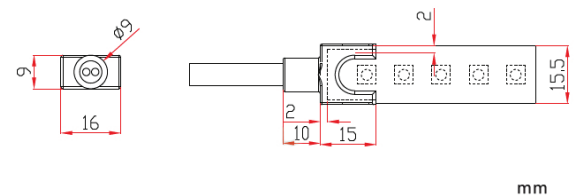
Seamless Side Exit

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LA-15G-I-00-4W-SE-1-SL-XXX-S
LA-15G-I-00-4W-SE-2-SR-XXX-S
LA-15G-I-00-4W-SE-2-SL-XXX-S



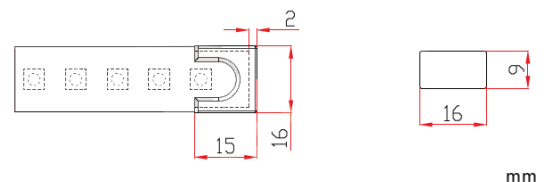
Seamless End Exit

LA-15G-I-00-4W-SE-1-EN-XXX-S
LA-15G-I-00-4W-SE-2-EN-XXX-S



Seamless End Cap

LA-15G-I-00-0W-SE-0-EC



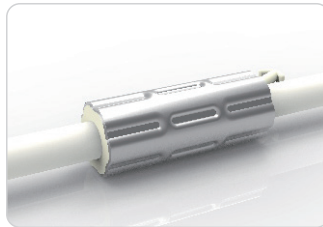
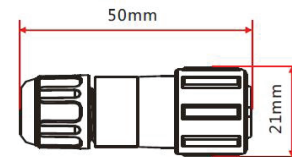
Connectors

Note: Unless otherwise stated, the tolerance is $\pm 22\text{mm}$.



Male & Female Connector

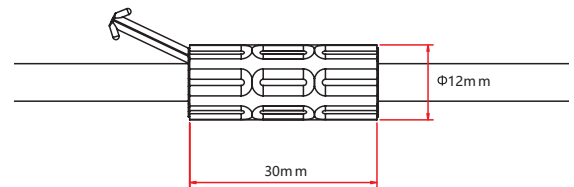
NA-XX-BC-DC-CXX-F
NA-XX-BC-DC-CXX-M
NA-XX-BN-XXA-CXX-F
NA-XX-BN-XXA-CXX-M
NA-XX-PL-XXA-CXX-F
NA-XX-PL-XXA-CXX-M



Anti-Wicking Ferrule

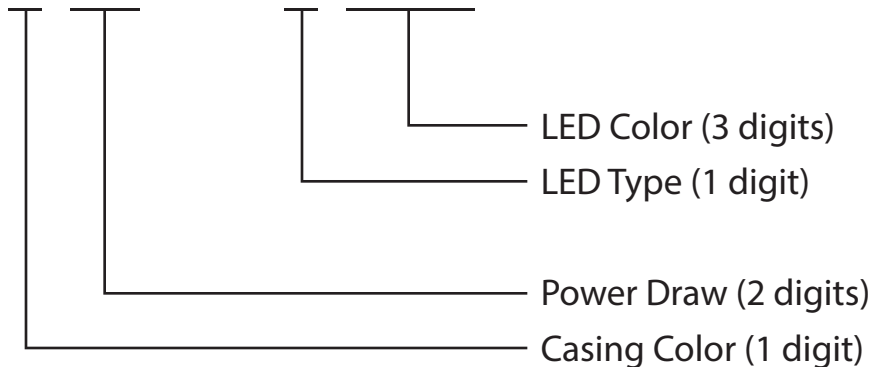
The anti-wicking ferrule is located 115mm ($\pm 5\text{mm}$ tolerance) from the connector cable.

For protection against water ingress inside of cable wire hence damage the light.



Part Number Naming Convention

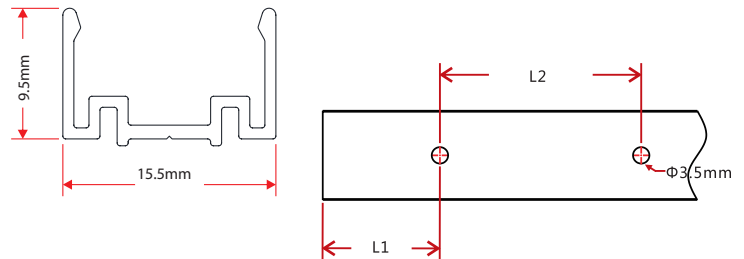
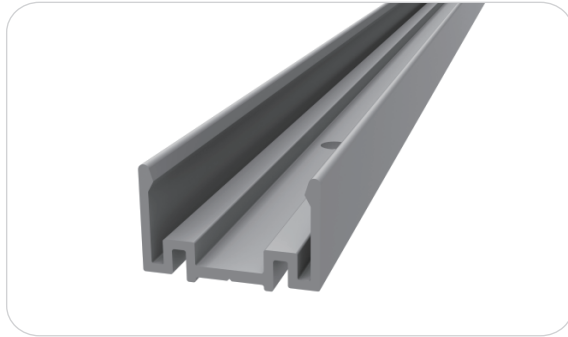
SL-15G-X-XX-4W-X-XXX-24DC



For full part number naming rules, please refer to the document on www.glls.com/support/documentation/

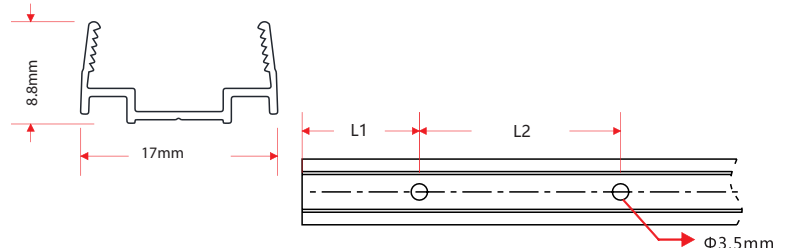
Mounting Hardware

Standard Anodized Aluminum Channel



W x H	Standard Length	Part Number	L1	L2	Screw Hole Φ	Hole #
0.54 x 0.87in (13.8 x 22mm)	1.38in (35mm)	CL-15-R-AL-3C5-SD	0.69in (17.5mm)	/	$\Phi 0.14\text{in}$ (3.5mm)	1
	19.69in (500mm)	CH-15-R-AL-0M5-SD	1.97in (50mm)	7.87in (200mm)	$\Phi 0.14\text{in}$ (3.5mm)	3
	39.37in (1000mm)	CH-15-R-AL-01M-SD	3.94in (100mm)	7.87in (200mm)	$\Phi 0.14\text{in}$ (3.5mm)	5
	78.74in (2000mm)	CH-15-R-AL-02M-SD	3.94in (100mm)	7.87in (200mm)	$\Phi 0.14\text{in}$ (3.5mm)	10

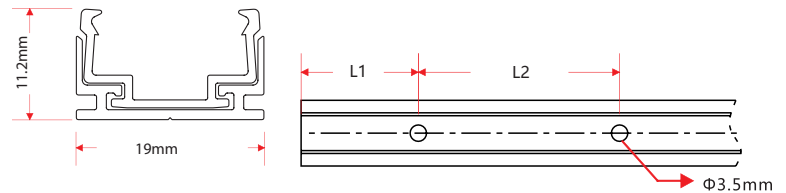
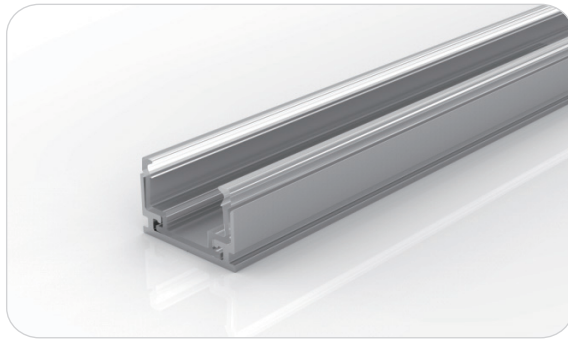
Plastic Channel



W x H	Standard Length	Part Number	L1	L2	Screw Hole Φ	Hole #
0.55 x 0.94in (14 x 24mm)	19.69in (500mm)	CH-15-R-PL-0M5-SD	1.97in (50mm)	7.87in (200mm)	$\Phi 0.14\text{in}$ (3.5mm)	3
	39.37in (1000mm)	CH-15-R-PL-01M-SD	3.94in (100mm)	7.87in (200mm)	$\Phi 0.14\text{in}$ (3.5mm)	5
	78.74in (2000mm)	CH-15-R-PL-02M-SD	3.94in (100mm)	7.87in (200mm)	$\Phi 0.14\text{in}$ (3.5mm)	10

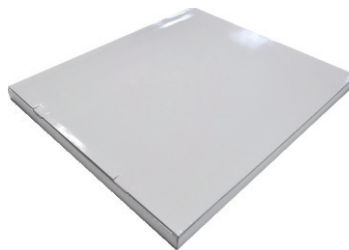
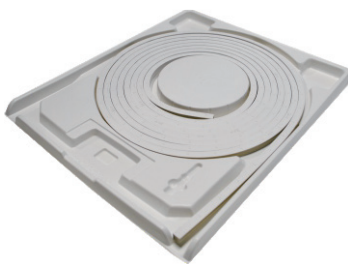
Mounting Hardware

Plastic & Aluminum Channel



W x H	Standard Length	Part Number	L1	L2	Screw Hole Φ	Hole #
0.55 x 0.59in (14 x 14.7mm)	1.38in (35mm)	CL-15-R-AP-3C5-SD	0.69in (17.5mm)	/	$\Phi 0.14$ in (3.5mm)	1
	19.69in (500mm)	CH-15-R-AP-0M5-SD	1.97in (50mm)	7.87in (200mm)	$\Phi 0.14$ in (3.5mm)	3
	39.37in (1000mm)	CH-15-R-AP-01M-SD	3.94in (100mm)	7.87in (200mm)	$\Phi 0.14$ in (3.5mm)	5
	78.74in (2000mm)	CH-15-R-AP-02M-SD	3.94in (100mm)	7.87in (200mm)	$\Phi 0.14$ in (3.5mm)	10

Packaging



White Box

Packing Box

Fixture Length	White Box Dimensions	Packing Box Dimensions	# Of White Boxes	Package Weight
393.7in (10m)	13.78x1.65x18.11in (35x4.2x46cm)	18.9x14.57x9.54in (48x37x24cm)	5	15.43lbs (7kg)
787.4in (20m)	20.08x1.65x22.05in (45x4.2x56cm)	22.83x18.5x9.45in (58x47x24cm)	5	26.45lbs (12kg)
1181.1in (30m)	26.77x1.65x28.34in (61x4.2x72cm)	29.13x25x4.13in (74x63.5x10.5cm)	2	17.64lbs (8kg)

Testing

Certifications

	Testing Organization	Certificate Serial N°	Report Reference
UL 2108	UL	20160726-E360029	E347880
CE-EMC	SGS	SZEM1702001259LMV	SZEM160600421302

Fixture Testing

Optical Testing

Spectrum Analysis	IES LM 79 (Lumen, CCT, CRI, XY, SDCM, wavelength)
Photometric Distribution	IES LM 73 (lumen intensity distribution & Lux diagram)
Lumen Maintenance & Lifetime	IES LM84 & IES TM28

Temperature Testing

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

Durability Testing

Bending Test	Manufacturer-defined, 500 cycles
Swing Test	UL2388, >750 cycles
Tensile Test	Manufacturer-defined, > the weight of light in max. connection length double feed
Twist Test	Max connection length double feed Manufacturer-defined, >200 cycles
Ball Impact	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
IK07 IK08	IEC62262

Environmental Testing

Chlorinated Water Immersion	BG9667, PH6.8-7.6, free chlorine 0.3-0.6mg/L
Salt Water Immersion	IEC60598-1, Salinity 4%
Salt Spray Test	IEC68-2-11
Outdoor Exposure	Manufacturer-defined
Flame Resistance	UL94
UV Exposure	ASTMG 154, ISO 4892-3, UVA @ 340nm
IPX5, IPX6, IPX7, IPX8	IEC60529
Temperature Shock	Manufacturer-defined, -40°C - 60°C (typical temperature range)
Constant Temperature	Manufacturer-defined

Testing

Charts

ANSI STANDARD

Nominal CCT Categories

Nominal CCT	Target CCT and tolerance(K)	Target D_{uv}	D_{uv} Tolerance Range
2200K	2238 ±102	0.0000	Tx:CCT of the source
2500K	2460±120	0.0000	For Tx<2870K
2700K	2725 ±145	0.0000	0.000±0.0060
3000K	3045±175	0.0001	For Tx≥2870K
3500K	3465±245	0.0005	$D_{uv}(Tx) \pm 0.0060$
4000K	3985±275	0.0010	where
4500K	4503±243	0.0015	$D_{uv}(Tx) = 57700 \times (1/Tx)^2$
5000K	5029±283	0.0020	$-44.6 \times (1/Tx)$
5700K	5667±355	0.0025	$+0.00854$
6500K	6532±510	0.0031	

Flexible CCT
(2200-6500K)

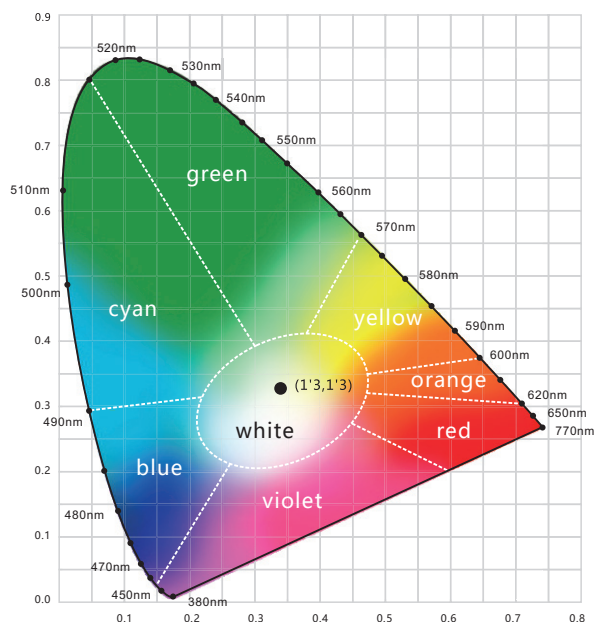
$T_F^{1)} \pm \Delta T^{2)}$

$D_{uv} T_F^{3)}$

Remark:

- 1) T_F is chosen to be at 100K steps (2300,2400,.....,6400K),excluding the ten nominal CCTs listed in Table 1.
- 2) $\Delta T = 1.1900 \times 10^8 \times T^3 - 1.5434 \times 10^4 \times T^2 + 0.7168 \times T - 902.55$
- 3) Same as in the D_{uv} Tolerance Range.

Wavelength of Color Light



Light Color

	Red 618-624nm
	Green 522-628nm
	Blue 468-474nm