



Vivid S 160 UL 2388

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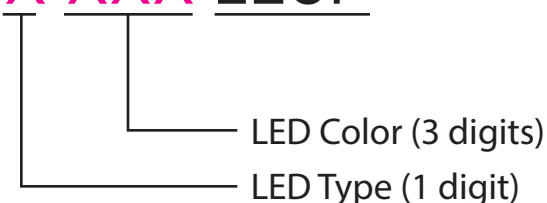
Technical Specifications

Light Dimension 0.45 x 0.83in (11.5x21mm)

Output	Red/Amber/Green/Blue/White
LED Light	Epistar SMD LED Chip
Max Run Length	
Single Feed	65.62ft (20m)
Light Surface	Square 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	120V AC
Power Consumption	1.83W/ft (6W/m)
Physical	
LED Count	25 LEDs/ft (84 LEDs/m)
LED Spacing	0.47in (11.94mm)
Cutting Unit Length	19.7in (500.38mm) (42 LEDs)
Thermal Management	Free air convection
Fixture Connections	End, side & bottom lead wires
Minimum Bend Diameter	4.72in (120mm) (Side Bending)
Temperature Ranges	
Installation	32°F to 140°F (0°C to 60°C)
Operating	-13°F to 140°F (-25°C to 60°C)
Humidity	0-95% non condensing
Dependability	
Warranty	5 Year 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	Dry/Damp/Wet

Part Number Naming Convention

NF-11B-1-01-2W-X-XXX-120P



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

Technical Specifications

Epistar

Available Colors

Color	CCT Wavelength
Red	620-630nm
Green	520-530nm
Blue	465-475nm
Amber	585-595nm
2200K	2238 ± 102K
2700K (WW)	2725 ± 145K
3000K	3045 ± 175K
4000K	3985 ± 275K
5700K (DW)	5669 ± 355K

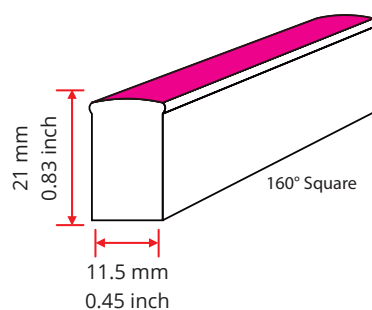
Lumen Count

Color	Per Foot	Per Meter	Power
Red	>22.86lm	>75lm	1.83W/ft (6W/m)
Green	>60.96lm	>200lm	1.83W/ft (6W/m)
Blue	>9.14lm	>30lm	1.83W/ft (6W/m)
Amber	>22.86lm	>75lm	1.83W/ft (6W/m)
2200K	>54.86lm	>180lm	1.83W/ft (6W/m)
2700K (WW)	>54.86lm	>180lm	1.83W/ft (6W/m)
3000K	>60.96lm	>200lm	1.83W/ft (6W/m)
4000K	>60.96lm	>200lm	1.83W/ft (6W/m)
5700K (DW)	>60.96lm	>200lm	1.83W/ft (6W/m)

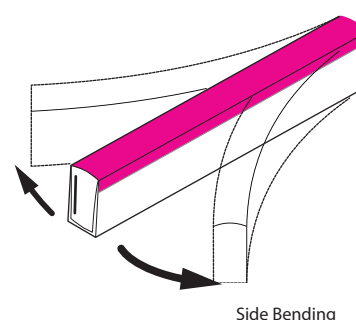
Physical Specifications



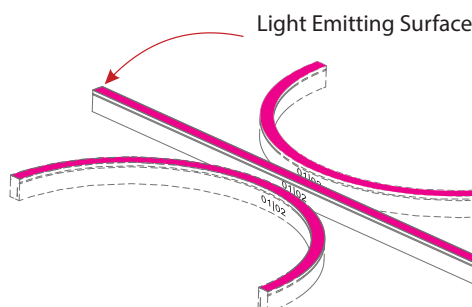
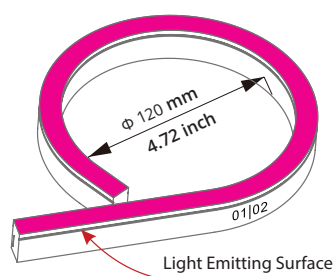
Light Profile



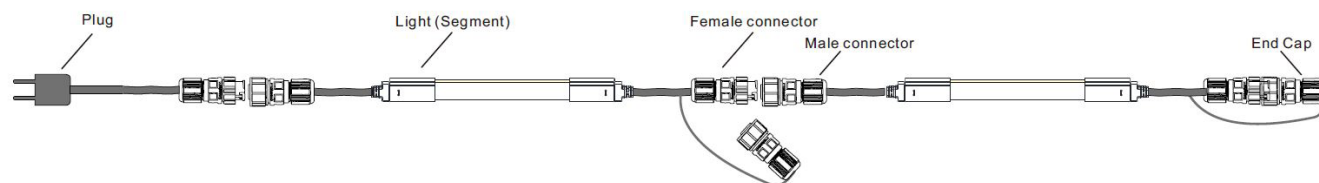
Bending Direction



Minimum Bending Diameter



Connectors



Power cord

1. 4.59ft power cord with 5A backup fused plug. This plug only fit in indoor outlet or with weatherproof cover outlet.
2. The power cord is installed with female connector to connect with Extension Light.

NA-11D-1-01-2W-SE-0-C1-1M4-P



Extension

1. With injection-moulded connectors on both ends, it can be used for light extension.
2. Multiple units can be electrically interconnected using pre-installed male connector in one end and female connector in another end for long running length (maximum 65.6ft). If no need to extend, install the attached end cap to the female connector.

Bottom Exit
NA-11B-1-01-2W-SE-0-P3-1M4-P

Side Exit
NA-11B-1-01-2W-SE-0-P2-1M4-P

End Exit
NA-11B-1-01-2W-SE-0-P1-1M4-P



Light

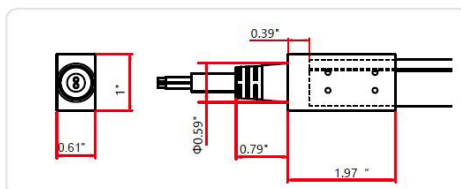
1. Dual injection-moulded for front and end cap.
2. The power cord is installed with male connector to connect to Junction Box kit.

End Exit
NH-11B-1-01-2W-SE-0-J1-0M3-P

Side Exit
NA-11B-1-01-2W-SE-0-J2-0M3-P

Bottom Exit
NA-11B-1-01-2W-SE-0-J3-0M3-P

Injection-moulded
Front Connector (top end)



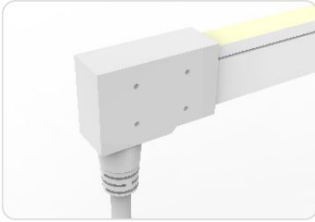
Female Connector



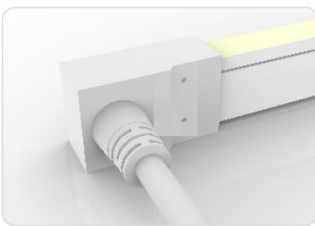
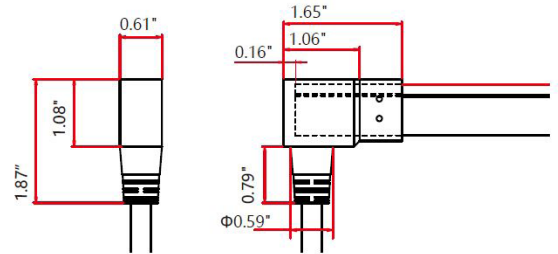
Male Connector



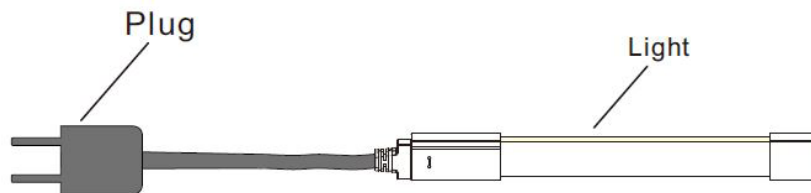
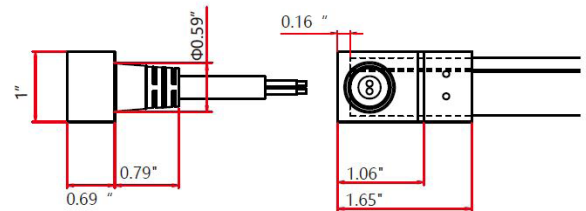
Connectors



Injection-moulded
Front Connector (bottom)



Injection-moulded
Front Connector (side)



Plug & terminal

1. Factory installed injection-molded connectors, applicable for dry or wet environments.
2. 4.59ft power cord with 5A backup fused plug. This plug only fit in indoor outlet or with weatherproof cover outlet.

Bottom Exit

NA-11B-1-01-2W-SE-0-P5-1M4-P

End Cap

NA-11B-1-01-0W-SX-1-EC-000-P

NA-11B-1-01-0W-SX-2-EC-000-P

Side Exit

NA-11B-1-01-2W-SE-0-P6-1M4-P

End Exit

NA-11B-1-01-2W-SE-0-P4-1M4-P

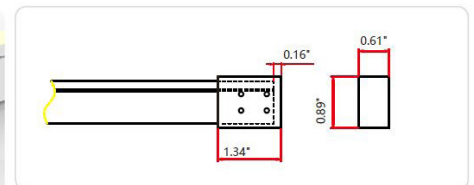
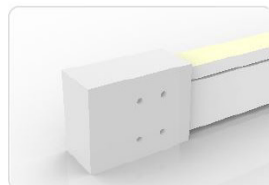
Plug



Injection-moulded Front
Connector (top end)

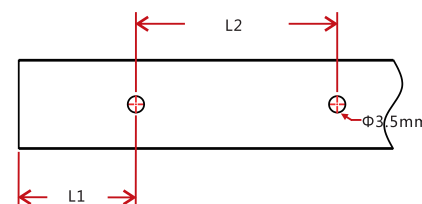
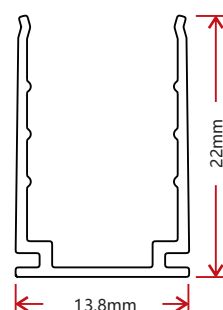
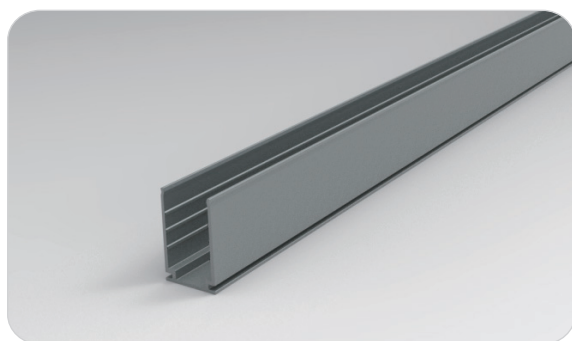


Injection-moulded
End Cap



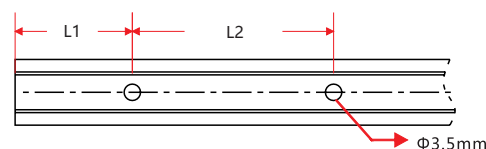
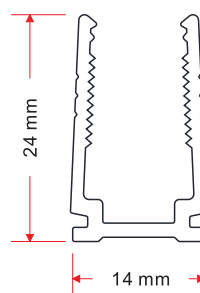
Mounting Hardware

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-11-R-AL-3C5-SD	0.69in (17.5mm)	/	Φ0.14in (3.5mm)	1
	19.69in (500mm)	CH-11-R-AL-0M5-SD	1.97in (50mm)	7.87in (200mm)	Φ0.14in (3.5mm)	3
	39.37in (1000mm)	CH-11-R-AL-01M-SD	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	5
	78.74in (2000mm)	CH-11-R-AL-02M-SD	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	10

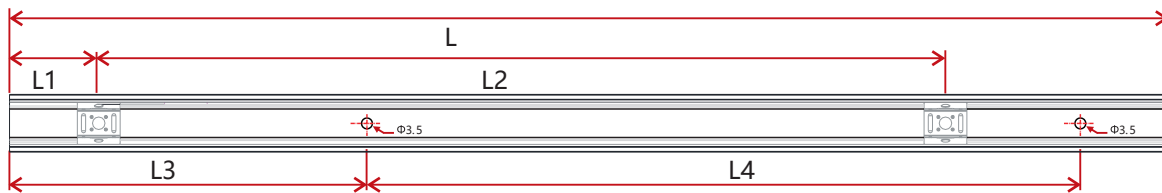
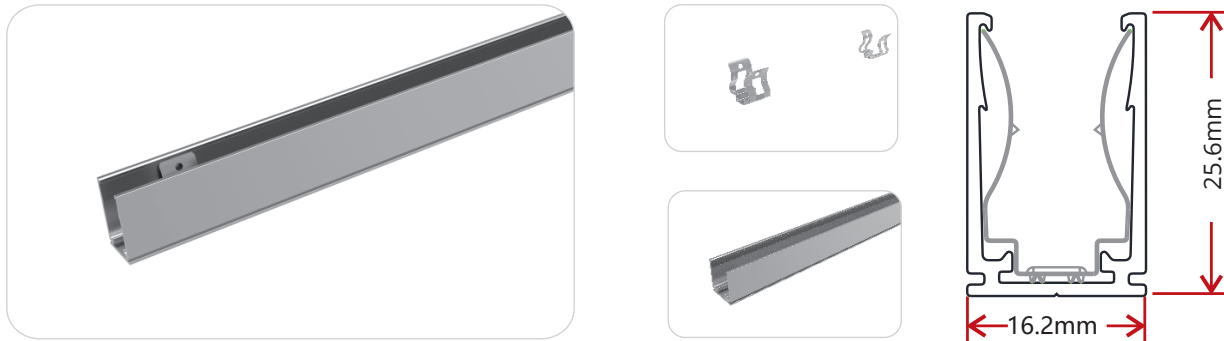
Plastic Channel



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-11-R-PL-0M5-SD	1.97in (50mm)	7.87in (200mm)	Φ0.14in (3.5mm)	3
	39.37in (1000mm)	CH-11-R-PL-01M-SD	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	5
	78.74in (2000mm)	CH-11-R-PL-02M-SD	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	10

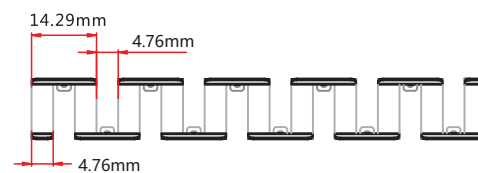
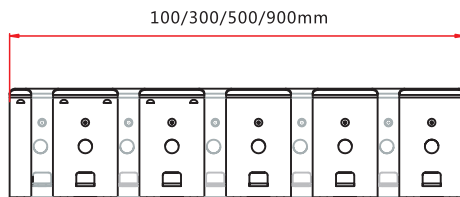
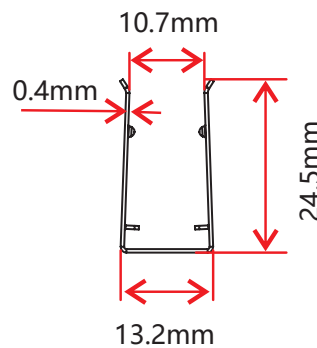
Mounting Hardware

Spring Clip Anodized Aluminum Channel



W x H	Standard Length	Part Number	L1	L2	L3	L4	Screw Hole Φ	Hole #	Clip #
0.64 x 1.01in (16.2 x 25.6mm)	1.38in (35mm)	CL-11-R-AL-3C5-SP	0.69in (17.5mm)	/	0.2in (5mm)	0.98in (25mm)	$\Phi 0.14$ in (3.5mm)	2	1
	19.69in (500mm)	CH-11-R-AL-0M5-SP	0.98in (25mm)	8.86in (225mm)	1.97in (50mm)	7.87in (200mm)	$\Phi 0.14$ in (3.5mm)	3	3
	39.37in (1000mm)	CH-11-R-AL-01M-SP	0.98in (25mm)	9.35in (237.5mm)	3.94in (100mm)	7.87in (200mm)	$\Phi 0.14$ in (3.5mm)	5	5
	78.74in (2000mm)	CH-11-R-AL-02M-SP	0.98in (25mm)	9.6in (243.8mm)	3.94in (100mm)	7.87in (200mm)	$\Phi 0.14$ in (3.5mm)	10	9

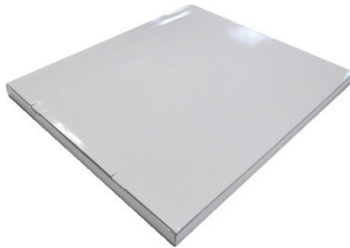
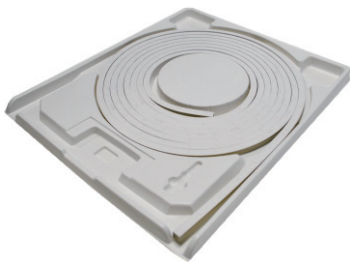
Stainless Steel Flexible Channel



W x H	Standard Length	Part Number
0.52 x 0.97in (13.2 x 24.5mm)	3.94in (100mm)	CH-11-F-SS-0M1-SD
	11.81in (300mm)	CH-11-F-SS-0M3-SD
	19.69in (500mm)	CH-11-F-SS-0M5-SD
	35.43in (900mm)	CH-11-F-SS-0M9-SD

This profile can be mounted using screws in any gaps where the channel bends.

Packaging



White Box

Packing Box

Fixture Length	White Box Dimensions	Packing Box Dimensions	# Of White Boxes	Package Weight
196.85in (5m)	13.78x1.65x18.11in (35x4.2x46cm)	18.9x14.57x9.54in (48x37x24cm)	5	22.05lbs (10kg)
393.7in (10m)	20.08x1.65x22.05in (45x4.2x56cm)	22.83x18.5x9.45in (58x47x24cm)	5	39.68lbs (18kg)
787.4in (20m)	26.77x1.65x28.34in (61x4.2x72cm)	29.13x25x4.13in (74x63.5x10.5cm)	2	33.07lbs (15kg)

Testing

Certifications

	Testing Organization	Certificate Serial N°	Report Reference
UL 2108	UL	20160726-E360029	E360029-2013
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 LM 84 & 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

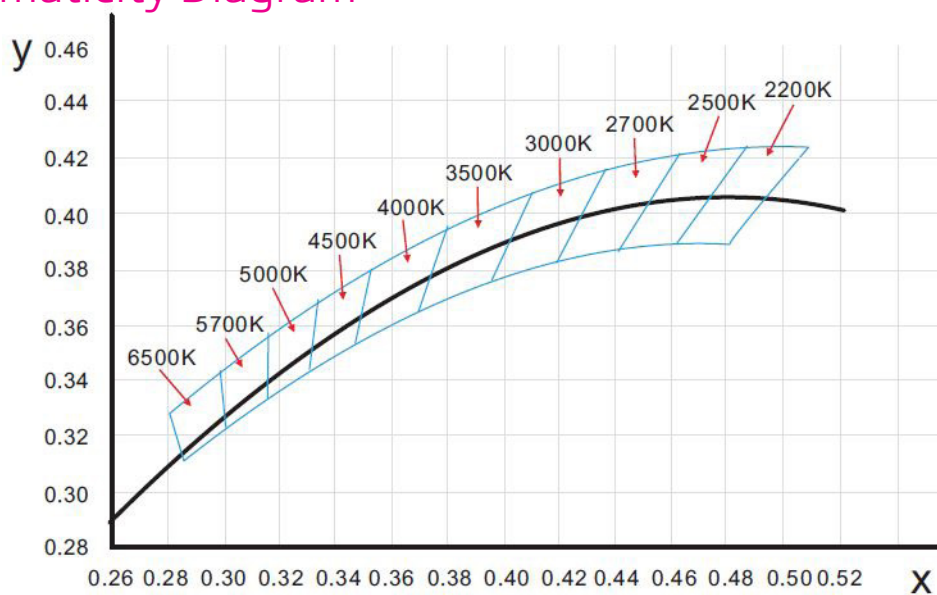
Environmental Testing

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

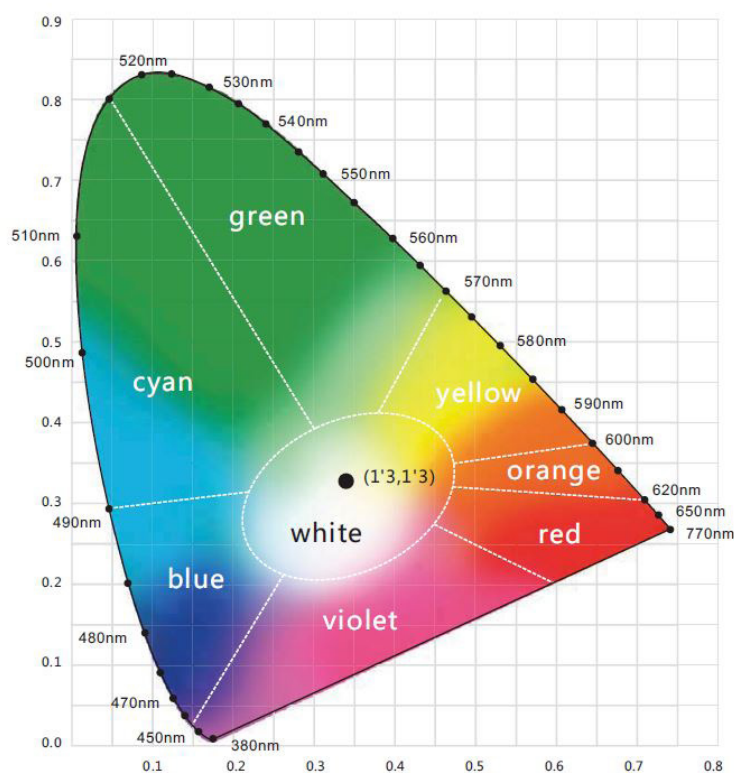
Testing

Charts

Chromaticity Diagram



Wavelength of Color Light



Light Color

