

# Neonflex Top Bend White 48V

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Neonflex Top Bend White 48V is a flexible linear lighting solution for clean, continuous lines of white light in architectural applications. With top-bend flexibility, it smoothly navigates tight curves, circular forms, and contours. Ideal for curved facades, circular features, and artistic installations requiring lateral bending.

Engineered for reliable outdoor performance, it delivers consistent white illumination through PWM control with CRI  $\geq 80-90$  for accurate color rendering. Housed in robust silicone with nylon connector material and rated IP68 and IK08, it withstands UV, saltwater, and extreme temperatures from  $-40^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  for long-term outdoor durability.

↳ Top-bending – With tight radius options enables seamless integration into curved architectural elements and circular installations.

↳ Durability – IP68/IK08 rating with saltwater resistance and over 70,000 hour lifespan ensures reliable performance in harsh outdoor environments.









## Specifications

### General

Power Consumption (W/m)	1010	8
	1313	5
	1616/1717/3027/2219	9
Input Voltage (V DC)	48	
LEDs (/m)	1010	120
	1313/1616/1717/3027/2219	140
LED Pitch (mm)	1010	8,33
	1313/1616/1717/3027/2219	7,14
Pixels (/m)	10	
Color Range	White	
Beam Angle (°)	1010/1313/1616/2219	120
	1717	210
	3027	270
LEDs (/segment)	1010	12
	1313/1616/1717/3027/2219	14
CRI	$\geq 80, \geq 90$	
Control	PWM	

### Installation Conditions & Lighting Data

Segment Length (mm)	100		
	1010	150	
	1313	80	
	1616/1717	120	
Bending Radius (mm)	3027/2219	400	
	Single Feed	Double Feed	
	Maximum Run Length (m)	1010	15
	1313/1616/1717/3027/2219	20	40
Lumen Maintenance Calculated Hours (h)	70,000 Hours L70 @ $25^{\circ}\text{C}$	50,000 Hours L70 @ $50^{\circ}\text{C}$	

### Operating

Environment	Outdoor
Installation Temperature ( $^{\circ}\text{C}$ )	0 to +50
Working Temperature ( $^{\circ}\text{C}$ )	-40 to +55
Saltwater Resistant	Yes
UV Resistant	Yes
Flame Resistant	Yes

IK Rating	IK08
IP Rating	IP68
Certification	RoHs/CE/UL/UKCA/CB/FCC
Limited Warranty	5 Years

### Physical

Housing Material	Silicon	
Cover Material	Silicon	
Connector Material	Nylon (PA66)	
Housing Color	White	
Cable Color	Black	
Connector Type	Bare Wire/ M12	
Weight (kg/m)	1010	0,40
	1313	0,45
	1616	0,45
	1717	0,45
	3027	0,60
	2219	0,60
Dimensions WxH (mm)	1010	10 x 10
	1313	13,5 x 13,5
	1616	16,5 x 16,5
	1717	16,5 x 16,5
	3027	30 x 28
	2219	22 x 19

## Options

### Color/CCT

<input type="checkbox"/> 2200K	<input type="checkbox"/> 3000K	<input type="checkbox"/> 4000K	<input type="checkbox"/> 5000K
<input type="checkbox"/> 2700K	<input type="checkbox"/> 3500K	<input type="checkbox"/> 4500K	<input type="checkbox"/> 6500K

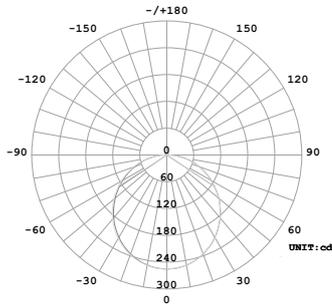
# Lighting Specifications

## Neonflex Top Bend

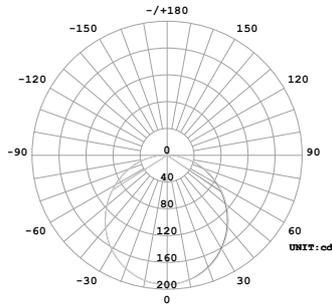
	Full White (lm/m)
1010 48V 2200K	
1010 48V 2700K	
1010 48V 3000K	701
1010 48V 3500K	
1010 48V 4000K	
1010 48V 4500K	
1010 48V 5000K	
1010 48V 6500K	
1313 48V 2200K	
1313 48V 2700K	
1313 48V 3000K	
1313 48V 3500K	
1313 48V 4000K	
1313 48V 4500K	
1313 48V 5000K	
1313 48V 6500K	
1616 48V 2200K	
1616 48V 2700K	
1616 48V 3000K	
1616 48V 3500K	
1616 48V 4000K	
1616 48V 4500K	
1616 48V 5000K	
1616 48V 6500K	

	Full White (lm/m)
1717 48V 2200K	
1717 48V 2700K	
1717 48V 3000K	631
1717 48V 3500K	
1717 48V 4000K	
1717 48V 4500K	
1717 48V 5000K	
1717 48V 6500K	
3027 48V 2200K	
3027 48V 2700K	
3027 48V 3000K	
3027 48V 3500K	
3027 48V 4000K	
3027 48V 4500K	
3027 48V 5000K	
3027 48V 6500K	
2219 48V 2200K	
2219 48V 2700K	
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2219 48V 5000K	
2219 48V 6500K	

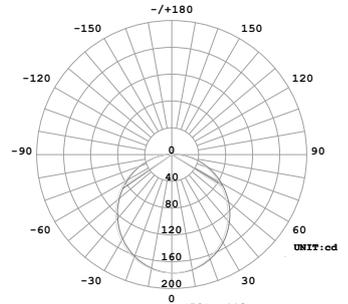
## Photometric Distribution



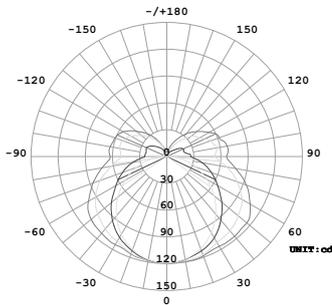
1010 - 112.9° Average Beam Angle



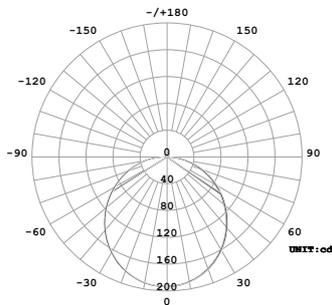
1313 - 113.5° Average Beam Angle



1616 - 113.5° Average Beam Angle

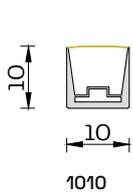


1717 - 158.9° Average Beam Angle

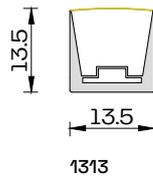


2219 - 112.7° Average Beam Angle

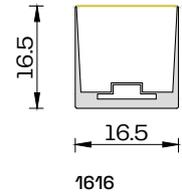
# Dimensions



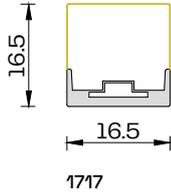
1010



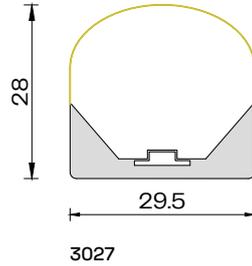
1313



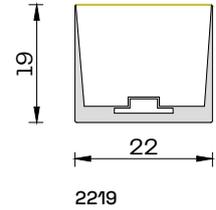
1616



1717

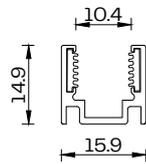


3027



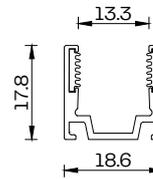
2219

# Accessory Options



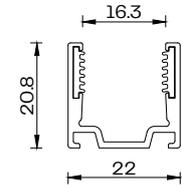
1010<sup>1</sup>

- \_\_\_\_ Straight Profile
- \_\_\_\_ Clip Profile
- \_\_\_\_ Straight Profile Transparent
- \_\_\_\_ Curved Profile



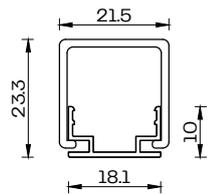
1313<sup>1</sup>

- \_\_\_\_ Straight Profile
- \_\_\_\_ Clip Profile
- \_\_\_\_ Straight Profile Cable Duct
- \_\_\_\_ Curved Profile
- \_\_\_\_ Curved Profile Cable Duct



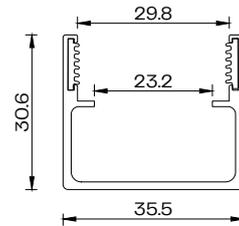
1616<sup>1</sup>

- \_\_\_\_ Straight Profile
- \_\_\_\_ Clip Profile
- \_\_\_\_ Straight Profile Cable Duct
- \_\_\_\_ Straight Profile Recessed
- \_\_\_\_ Straight Profile Transparent
- \_\_\_\_ Curved Profile
- \_\_\_\_ Recessed Profile End Cap



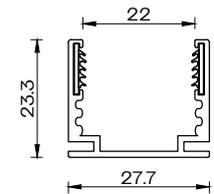
1717<sup>1</sup>

- \_\_\_\_ Straight Profile
- \_\_\_\_ Clip Profile
- \_\_\_\_ Straight Profile Transparent



3027<sup>1</sup>

- \_\_\_\_ Straight Profile
- \_\_\_\_ Clip Profile
- \_\_\_\_ Curved Profile

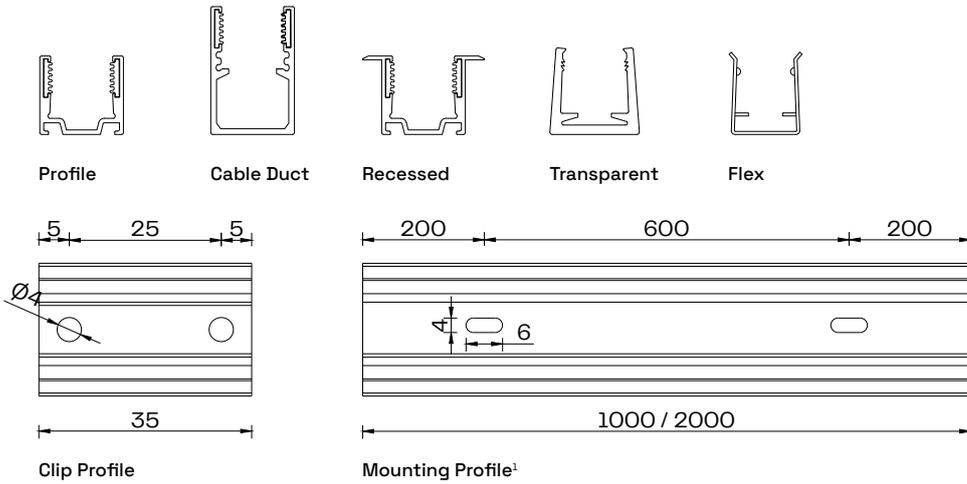


2219<sup>1</sup>

- \_\_\_\_ Straight Profile
- \_\_\_\_ Clip Profile
- \_\_\_\_ Straight Profile Cable Duct
- \_\_\_\_ Curved Profile

<sup>1</sup>Straight Profile is shown. The dimensions shown are not to scale. Please refer to the Dimension Sheet document for additional dimensions.

# Profile Specifications

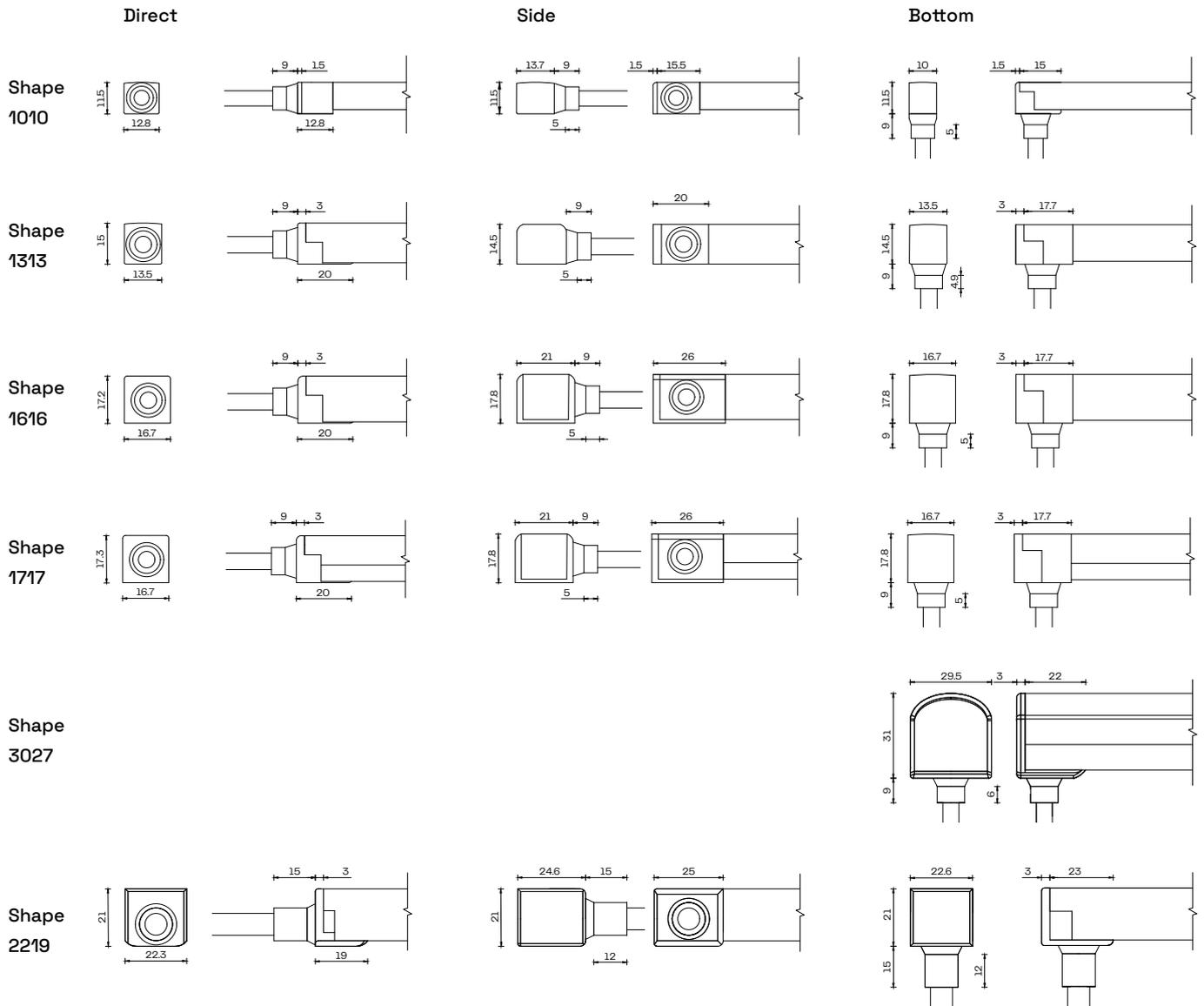


## Physical

Profile Material	Aluminum Alloy 6063
Transparent Profile Material	Polycarbonate
Aluminum Profile finish	Blank Anodized

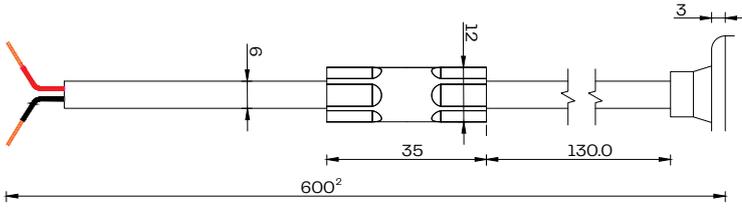
<sup>1</sup>1000mm profile is standard. 2000mm is available to order.

# Cable Entry Options



# Connection Options

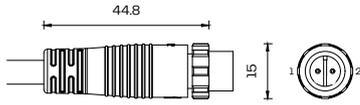
## White Bare Wires with waterstop<sup>1</sup>



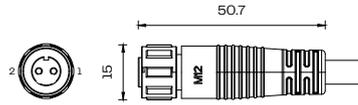
## Wire Color

Red	48 V+
Black	GND

## M12 Male Connector<sup>3</sup>



## M12 Female Connector



## Connector Pin

Pin 1	Red	48 V+
Pin 2	Black	GND

<sup>1</sup>Removing the waterstop will void the warranty.

<sup>2</sup>600 mm cable length is standard. Custom length is available on request.

<sup>3</sup>When opting for M12 connector the cable including connector is 300 mm.

# Product References

## Neonflex

Reference	Description
3172057	Neonflex Top Bend 1010 48V 2200K
3172058	Neonflex Top Bend 1010 48V 2700K
3172059	Neonflex Top Bend 1010 48V 3000K
3172060	Neonflex Top Bend 1010 48V 3500K
3172061	Neonflex Top Bend 1010 48V 4000K
3172062	Neonflex Top Bend 1010 48V 4500K
3172063	Neonflex Top Bend 1010 48V 5000K
3172064	Neonflex Top Bend 1010 48V 6500K
3172049	Neonflex Top Bend 1313 48V 2200K
3172050	Neonflex Top Bend 1313 48V 2700K
3172051	Neonflex Top Bend 1313 48V 3000K
3172052	Neonflex Top Bend 1313 48V 3500K
3172053	Neonflex Top Bend 1313 48V 4000K
3172054	Neonflex Top Bend 1313 48V 4500K
3172055	Neonflex Top Bend 1313 48V 5000K
3172056	Neonflex Top Bend 1313 48V 6500K
3172065	Neonflex Top Bend 1616 48V 2200K
3172066	Neonflex Top Bend 1616 48V 2700K
3172067	Neonflex Top Bend 1616 48V 3000K
3172068	Neonflex Top Bend 1616 48V 3500K
3172069	Neonflex Top Bend 1616 48V 4000K
3172070	Neonflex Top Bend 1616 48V 4500K
3172071	Neonflex Top Bend 1616 48V 5000K
3172072	Neonflex Top Bend 1616 48V 6500K

3172073	Neonflex Top Bend 1717 48V 2200K
3172074	Neonflex Top Bend 1717 48V 2700K
3172075	Neonflex Top Bend 1717 48V 3000K
3172076	Neonflex Top Bend 1717 48V 3500K
3172077	Neonflex Top Bend 1717 48V 4000K
3172078	Neonflex Top Bend 1717 48V 4500K
3172079	Neonflex Top Bend 1717 48V 5000K
3172080	Neonflex Top Bend 1717 48V 6500K
3172081	Neonflex Top Bend 3027 48V 2200K
3172082	Neonflex Top Bend 3027 48V 2700K
3172083	Neonflex Top Bend 3027 48V 3000K
3172084	Neonflex Top Bend 3027 48V 3500K
3172085	Neonflex Top Bend 3027 48V 4000K
3172086	Neonflex Top Bend 3027 48V 4500K
3172087	Neonflex Top Bend 3027 48V 5000K
3172088	Neonflex Top Bend 3027 48V 6500K
3172089	Neonflex Top Bend 2219 48V 2200K
3172090	Neonflex Top Bend 2219 48V 2700K
3172091	Neonflex Top Bend 2219 48V 3000K
3172092	Neonflex Top Bend 2219 48V 3500K
3172093	Neonflex Top Bend 2219 48V 4000K
3172094	Neonflex Top Bend 2219 48V 4500K
3172095	Neonflex Top Bend 2219 48V 5000K
3172096	Neonflex Top Bend 2219 48V 6500K

## Accessories

### Straight Profiles

Reference	Description
3167902	Neonflex 1010 Straight Profile 1000
3167924	Neonflex 1010 Straight Profile 2000
3167932	Neonflex 1010 Clip Profile
3167961	Neonflex 1010 Straight Profile Transparent
3167903	Neonflex 1313 Straight Profile 1000
3167925	Neonflex 1313 Straight Profile 2000
3167933	Neonflex 1313 Clip Profile
3167962	Neonflex 1313 Straight Profile Cable Duct 1000
3167963	Neonflex 1313 Straight Profile Cable Duct 2000
3167904	Neonflex 1616 Straight Profile 1000
3167926	Neonflex 1616 Straight Profile 2000
3167934	Neonflex 1616 Clip Profile
3167967	Neonflex 1616 Straight Profile Cable Duct 1000
3167968	Neonflex 1616 Straight Profile Cable Duct 2000
3167909	Neonflex 1616 Straight Profile Recessed 1000

3167913	Neonflex 1616 Straight Profile Recessed 2000
3167960	Neonflex 1616 Recessed Profile End Cap 2pcs
3167969	Neonflex 1616/1717 Straight Profile Transparent
3167907	Neonflex 1717 Straight Profile 1000
3167927	Neonflex 1717 Straight Profile 2000
3167935	Neonflex 1717 Clip Profile
3167908	Neonflex 3027 Straight Profile 1000
3167930	Neonflex 3027 Straight Profile 2000
3167937	Neonflex 3027 Clip Profile
3167975	Neonflex 2219 Straight Profile 1000
3167976	Neonflex 2219 Straight Profile 2000
3167977	Neonflex 2219 Clip Profile
3167978	Neonflex 2219 Straight Profile Cable Duct 1000
3167979	Neonflex 2219 Straight Profile Cable Duct 2000

### Curved Profiles

Reference	Description
3167923	Neonflex Top Bend 1010 Curved Profile 1000
3167940	Neonflex Top Bend 1010 Curved Profile 2000
3167916	Neonflex Top Bend 1313 Curved Profile 1000
3167941	Neonflex Top Bend 1313 Curved Profile 2000
3167951	Neonflex Top Bend 1313 Curved Profile Cable Duct 1000
3167952	Neonflex Top Bend 1313 Curved Profile Cable Duct 2000

3167918	Neonflex Top Bend 1616 Curved Profile 1000
3167942	Neonflex Top Bend 1616 Curved Profile 2000
3167922	Neonflex Top Bend 3027 Curved Profile 1000
3167943	Neonflex Top Bend 3027 Curved Profile 2000
3167953	Neonflex Top Bend 2219 Curved Profile 1000
3167954	Neonflex Top Bend 2219 Curved Profile 2000