

# USER MANUAL

## PCB Deco, Power, High Power & Photon



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**PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION & LEAVE A COPY FOR THE END USER/ MAINTANANCE ENGINEER FOR FUTURE REFERENCE.**



## Warning

**This product comes with a 5 year warranty.**

Warranty void if:

1. The installation guide has not been consulted (installation mistake).
2. The installation is not done by a certified installer.
3. Local rules and guidelines are not respected.
4. The invoice cannot be shown and/or has been altered.
5. Damage is caused by negligence, abnormal use or improper handling, use, maintenance and/or cleaning of the product.

This product is intended for professional use only! This product must be installed by a qualified and certified installer according to local rules and guidelines. Organic Lighting Systems, Inc. cannot be held liable for (consequential) damage and/or injuries due to unintended use and/or installation errors.

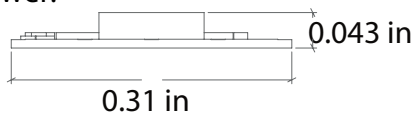
## Product Information

The OrgaLED® LED strip (IP40) is a high quality, flexible LED strip with a unique co-extrusion technology. Designed for an endless range of indoor and outdoor applications.

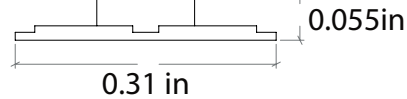
*\* For use in wet environments, use mirror welded connectors or IP68 waterproof kits.*

## Product Dimensions

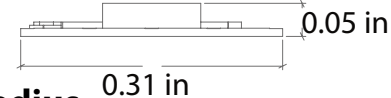
OrgaLED strip front view: Deco, Power:



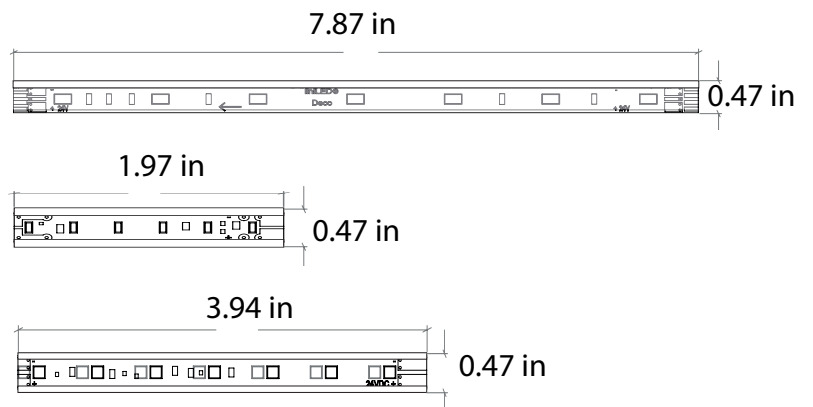
High Power:



Photon:

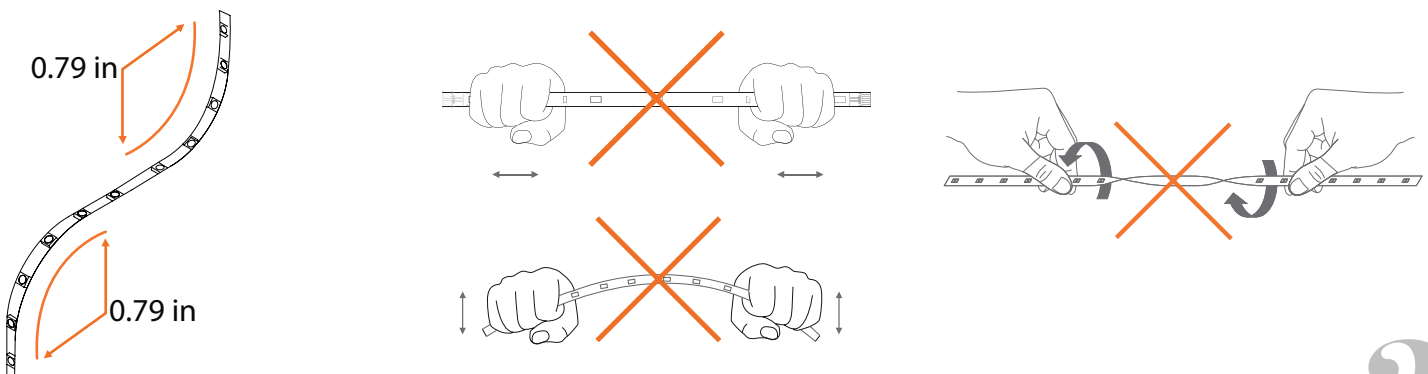


OrgaLED strip top view; cuttable sections:



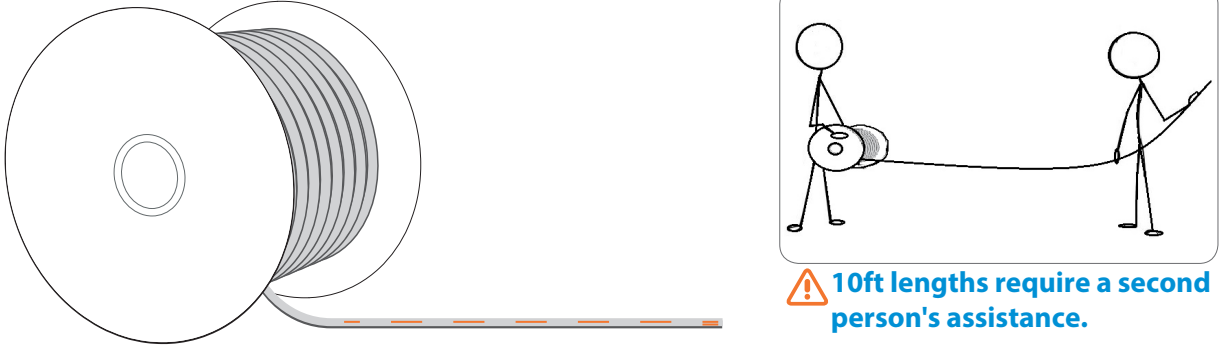
## Bending Radius

Maximum bending radius is 0.79 in. Solely bend up or downward. Do not compress, stretch or bend the LED strip.



# Cutting Instructions

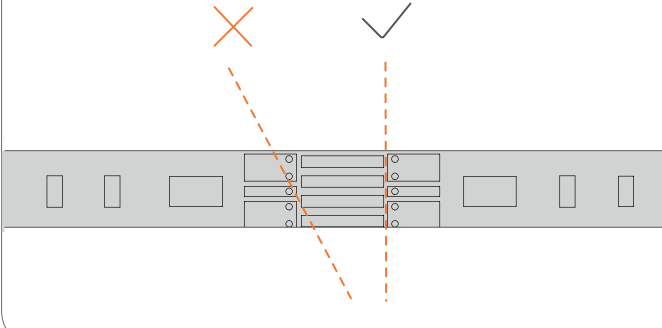
**1**



**! 10ft lengths require a second person's assistance.**

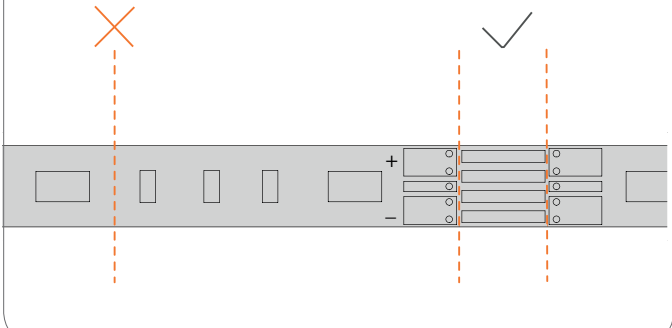
**!** The LED strip has to be unreeled on a horizontal surface at the time of installation. Do not unreele the spool of LED strip before installation. Lengths over 10ft should be installed with the help of a second person to support the strip to ensure that the connector is not stressed.

**2**

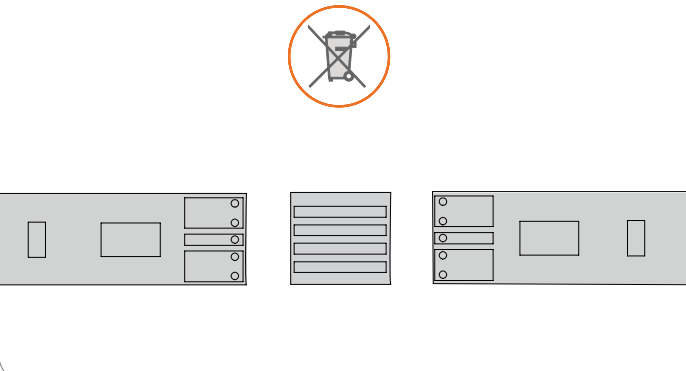


**Top view** | Make sure the cut is vertical as illustrated in the image above. Only cut on the dotted lines to prevent damaging the LED strip.

**3**



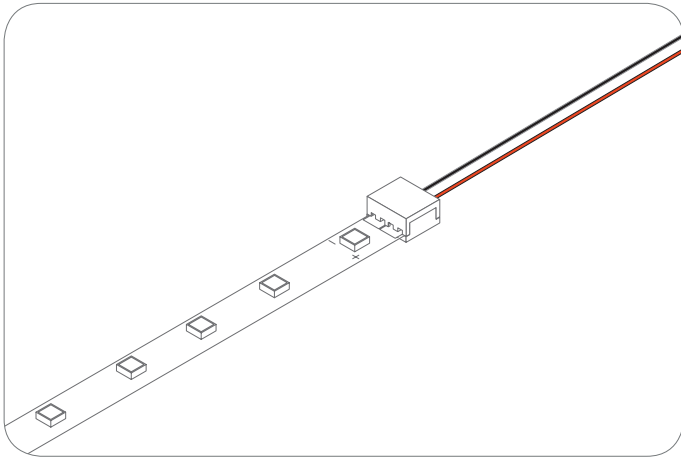
**Top view** | Only cut on the dotted lines to prevent damaging the LED strip.



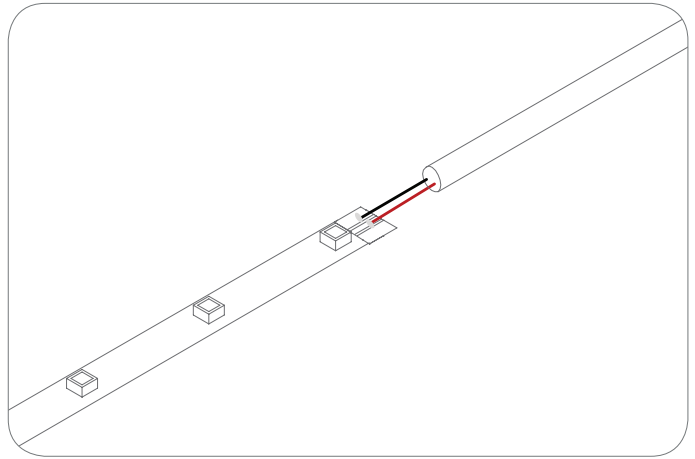
Dispose of the unnecessary material through waste recycling of electrical and electronic equipment.

## Choose your Connector - IP20

Depending on the area where the OrgaLED® LED strip is installed we offer a range of solutions to cope with external factors. The product portfolio for the OrgaLED® PCB LED strip includes a IP20 connector. OrgaLED PCB requires either an IP20 connector or a soldered connection. (pg.5)

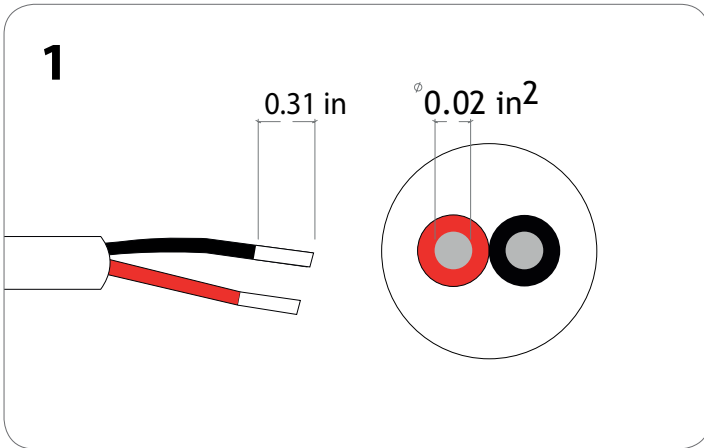


Indoor environment | (IP20) | OrgaLED® PCB Connector Set

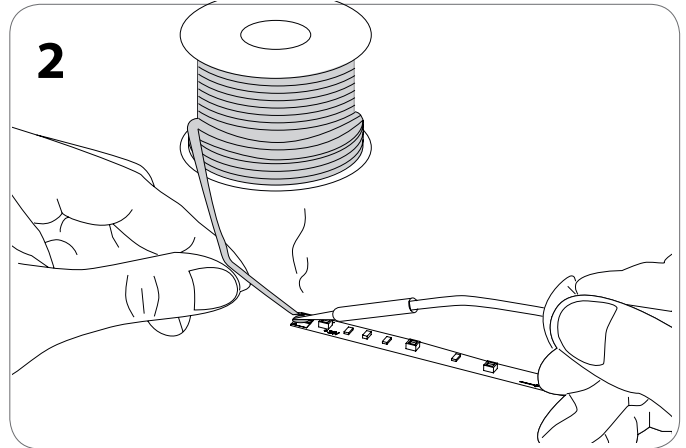


Indoor environment | (IP00) Solder

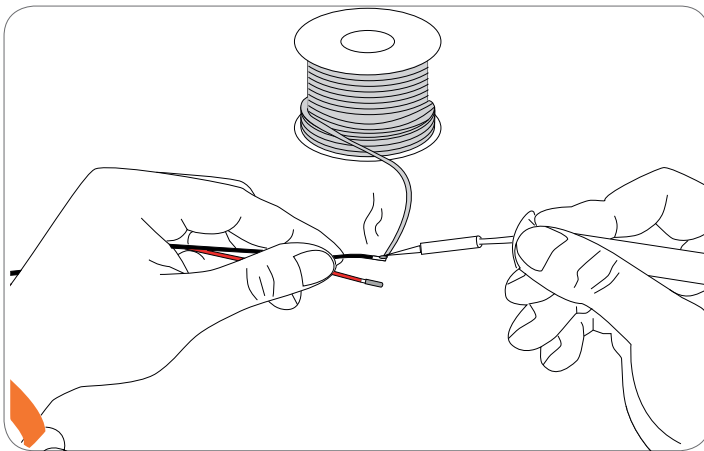
# Solder Connection Assembly (IP20)



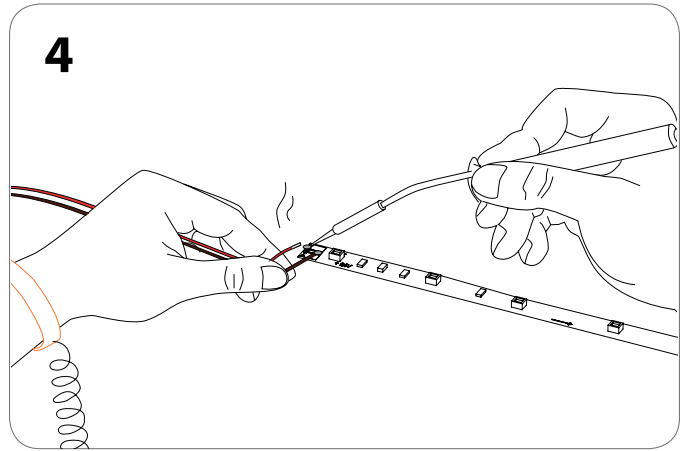
**1** Solder the wires to the PCB. We advise to use a cable with an area not bigger than 0.5 mm<sup>2</sup>.



**2** Pre-solder the connector pads.



Pre-solder the wires.



**4** Solder the wires to the connector pads. 662°F

## General

**Read the instructions and safety precautions before installation, usage and storage of the products to secure safety of the user and reliability of the product. Hand over the instructions to the end-user and/or those responsible for installation, maintenance and usage.**

- Organic Lighting Systems, Inc. cannot be held responsible for improper handling, product installation, usage or storage.

## Handling

- Handle with care.
- The product may not be modified or converted otherwise than prescribed.
- Products are transported in proper packaging. Products should remain packed until installation.

## Installation

- Attention: The power has to be switched off the main power supply or the connection before installation. Not doing so may damage the product.
- Use a suitable LED power supply/driver: 24 V DC constant voltage. Do not drive the product on other voltages than described in their datasheet/products specifications.
- Installation has to be done by a certified professional with knowledge of electrical circuits or a specialised maintenance person known with valid directives.
- General and local construction, safety- and installation regulations should be respected.
- Use only supplied parts, accessories and required tools as prescribed in the installation manual to guarantee a safe installation and use of the product.
- Products may solely be installed in the areas according to their prescribed IP-rating, IK-rating, temperature range and chemical resistances.
- Do not fasten anything on the product, same applies for hanging.
- Do not install the product in the following cases:
  - Damage is visible on the product or its cables.
  - The inside of the product is moistened or dirty.
  - The product or its cables have been modified. It could lead to an electrical shock or a short circuit may occur.
- Children may not play unsupervised with electrical products as they cannot judge the dangers in dealing with electrical circuits correctly.

## Operation and Use

**Solely use the product when its working correctly. If not, switch the power off immediately and advise an electrical specialist in the following case.**

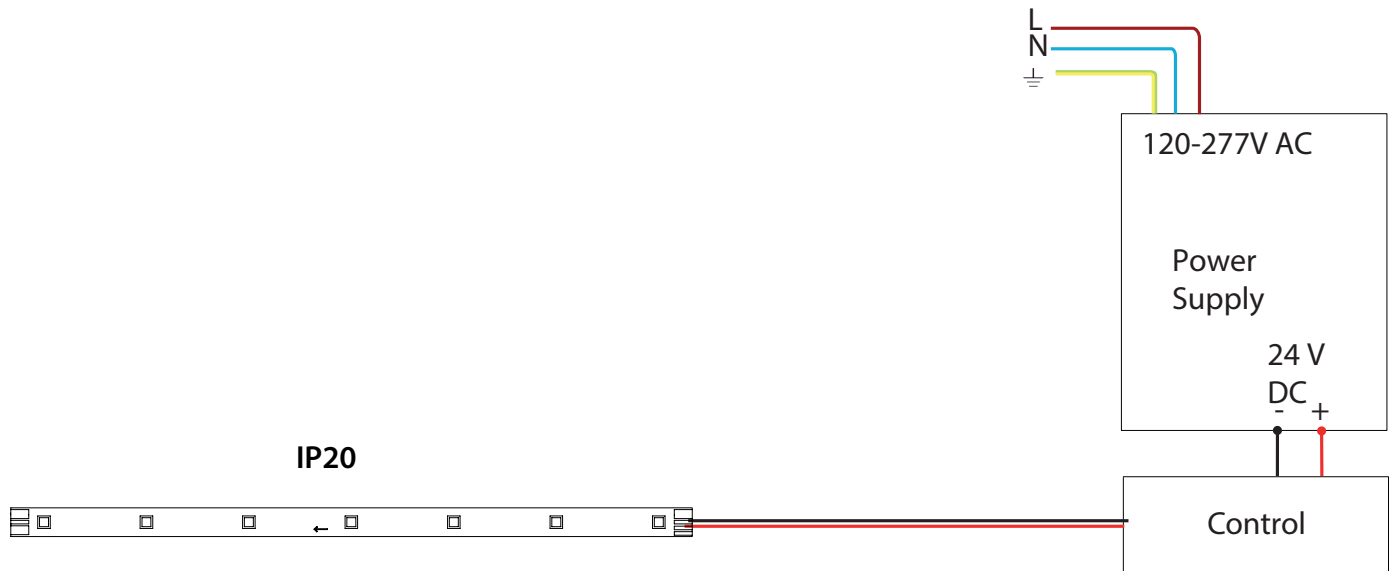
- Damage is visible on the product.
- The product does not function.
- Smoke or steam rises from the product.
- Crackling sounds are noticeable.
- The product is overheating.
- Repairs on the installation may only be performed by qualified electricians. Product repairs may solely be done by Organic Lighting Systems, Inc.

## Cleaning and Maintenance

- Attention: Disconnect the power before maintenance and cleaning.
- Dust and dirt accumulated over time should be removed from the light-emitting surface to assure optimal functioning of the product.
- Paints, solvents and corrosive cleaning chemicals may not contact and thus affect the product.

## Environment and Waste

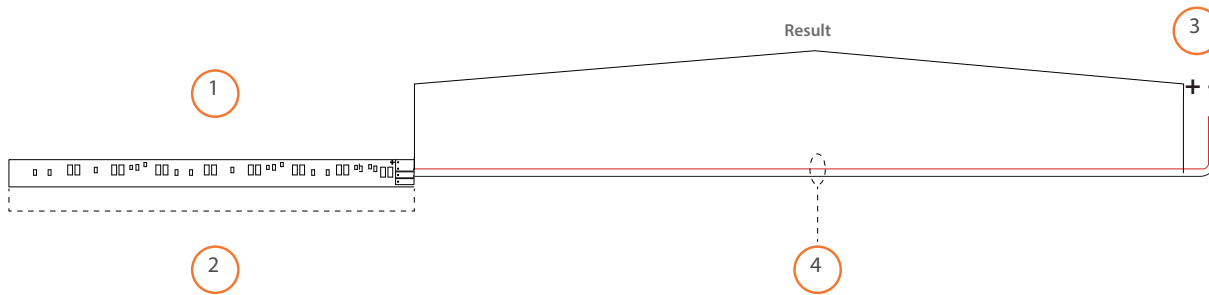
- Exterior decorative lighting should only be used after sunset.
- This product may not be treated as household waste. Dispose of the material through the waste recycling of electrical and electronic equipment.



## Cable Selection

The following chart gives the maximum 24V supply cable run lengths based on 22AWG, 20AWG, 18AWG, 16AWG and 14AWG wire gauge to avoid voltage drop to the strips, with a 3ft liniLED connector cable length.

A wiring plan with branches from a single power supply connection cannot exceed the maximum connector strip length shown on the charts and if complex will require special electrical calculations to ensure adequate power to maintain full LED output.



**Result** = Maximum cable length based on the cable thickness and power supply voltage.

### 1. Color Temperature

### DECO 2400-6500K

2. LED Strip Length		3'		16'		33'		66'	
3. Voltage		24V DC	25V DC	24V DC	25V DC	24V DC	25VDC	24V DC	25V DC
4. Cable Size	<b>22 AWG</b>	304'	587'	57'	114'	27'	55'	11'	25'
	<b>20 AWG</b>	457'	883'	86'	172'	40'	82'	17'	38'
	<b>18 AWG</b>	608'	1174'	114'	228'	53'	110'	22'	51'
	<b>16 AWG</b>	914'	1767'	173'	343'	80'	165'	33'	76'
	<b>14 AWG</b>	1521'	2940'	287'	571'	133'	275'	56'	127'

### 1. Color Temperature

### DECO RED & AMBER

2. LED Strip Length		3'		16'		33'		66'	
3. Voltage		24V DC	25V DC	24V DC	25V DC	24V DC	25VDC	24V DC	25V DC
4. Cable Size	<b>22 AWG</b>	227'	439'	42'	84'	19'	40'	7'	18'
	<b>20 AWG</b>	341'	661'	63'	127'	28'	60'	11'	27'
	<b>18 AWG</b>	453'	879'	84'	169'	38'	80'	14'	36'
	<b>16 AWG</b>	682'	1322'	127'	254'	57'	121'	22'	54'
	<b>14 AWG</b>	1135'	2200'	210'	423'	95'	201'	37'	90'

### 1. Color Temperature

### DECO BLUE & GREEN

2. LED Strip Length		3'		16'		33'		66'	
3. Voltage		24V DC	25V DC	24V DC	25V DC	24V DC	25VDC	24V DC	25V DC
4. Cable Size	<b>22 AWG</b>	402'	776'	77'	152'	36'	74'	16'	35'
	<b>20 AWG</b>	605'	1168'	116'	228'	55'	111'	24'	52'
	<b>18 AWG</b>	805'	1553'	154'	304'	73'	148'	32'	70'
	<b>16 AWG</b>	1210'	2336'	233'	457'	110'	222'	48'	105'
	<b>14 AWG</b>	2015'	3888'	386'	761'	182'	370'	81'	174'



## Cable Selection

### 1. Color Temperature

#### POWER 2400 - 6500K

2. LED Strip Length		3'		6'		16'		33'	
3. Voltage		24V DC	25V DC	24V DC	25V DC	24V DC	25VDC	24V DC	25V DC
4. Cable Size	22 AWG	221'	429'	109'	213'	41'	82'	18'	39'
	20 AWG	333'	646'	163'	320'	61'	124'	28'	59'
	18 AWG	443'	859'	217'	425'	82'	165'	37'	78'
	16 AWG	667'	1292'	327'	640'	123'	248'	55'	118'
	14 AWG	1110'	2150'	544'	1065'	205'	413'	92'	196'

### 1. Color Temperature

#### POWER RED & AMBER

2. LED Strip Length		3'		6'		16'		33'	
3. Voltage		24V DC	25V DC	24V DC	25V DC	24V DC	25VDC	24V DC	25V DC
4. Cable Size	22 AWG	118'	231'	57'	113'	20'	43'	8'	19'
	20 AWG	178'	347'	86'	170'	31'	64'	12'	29'
	18 AWG	236'	462'	114'	227'	40'	86'	16'	38'
	16 AWG	356'	695'	172'	341'	61'	129'	24'	58'
	14 AWG	592'	1156'	285'	567'	101'	214'	40'	96'

### 1. Color Temperature

#### POWER BLUE & GREEN

2. LED Strip Length		3'		6'		16'		33'	
3. Voltage		24V DC	25V DC	24V DC	25V DC	24V DC	25VDC	24V DC	25V DC
4. Cable Size	22 AWG	137'	267'	66'	131'	24'	50'	10'	23'
	20 AWG	206'	401'	100'	197'	36'	75'	15'	34'
	18 AWG	274'	534'	133'	262'	48'	100'	20'	46'
	16 AWG	412'	803'	199'	395'	72'	150'	30'	69'
	14 AWG	686'	1336'	332'	657'	119'	250'	50'	114'

### 1. Color Temperature

#### HIGH POWER 2400 - 6500K

2. LED Strip Length		3'		6'		16'		33'	
3. Voltage		24V DC	25V DC	24V DC	25V DC	24V DC	25VDC	24V DC	25V DC
4. Cable Size	22 AWG	110'	215'	53'	105'	18'	39'	7'	18'
	20 AWG	165'	324'	79'	158'	28'	59'	11'	27'
	18 AWG	220'	430'	106'	211'	37'	79'	14'	35'
	16 AWG	331'	647'	159'	317'	56'	119'	22'	53'
	14 AWG	551'	1077'	265'	528'	93'	198'	36'	89'

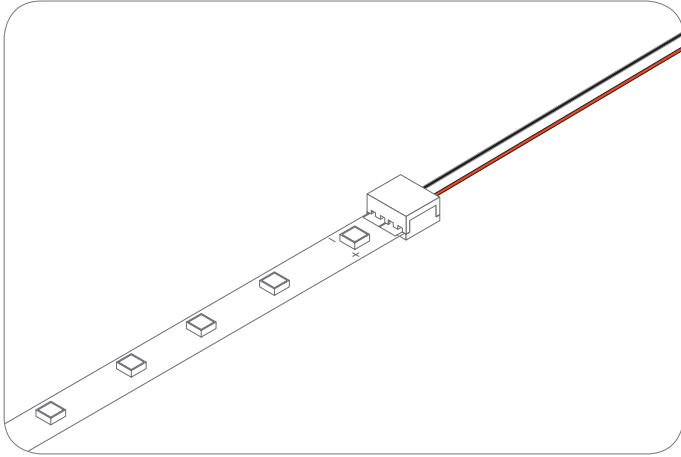
### 1. Color Temperature

#### PHOTON 2400-6500K

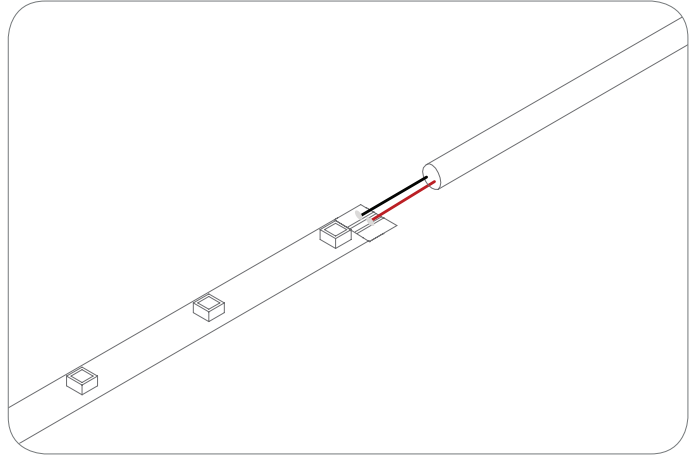
2. LED Strip Length		3'		6'		16'		29'	
3. Voltage		24V DC	25V DC	24V DC	25V DC	24V DC	25VDC	24V DC	25V DC
4. Cable Size	22 AWG	121'	236'	58'	116'	21'	44'	10'	22'
	20 AWG	182'	356'	88'	175'	31'	66'	14'	34'
	18 AWG	242'	473'	117'	232'	42'	88'	19'	45'
	16 AWG	365'	712'	176'	350'	63'	132'	29'	68'
	14 AWG	607'	1185'	293'	582'	104'	220'	49'	113'

## Cable Selection

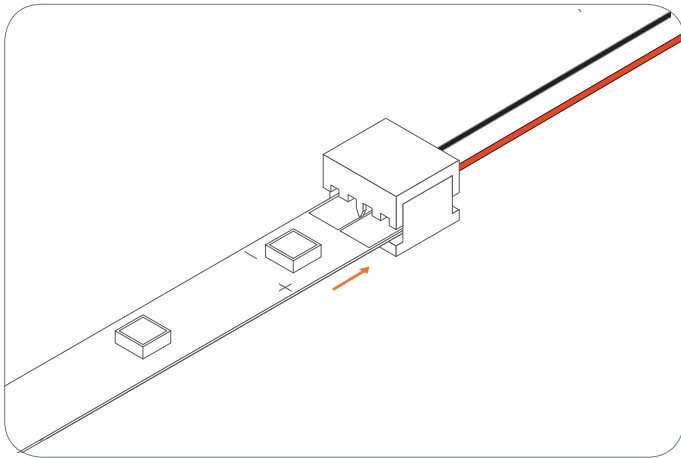
Depending on the area where the OrgaLED® LED strip is installed we offer a range of solutions to cope with external factors. The product portfolio for the OrgaLED® PCB LED strip includes a IP20 connector.



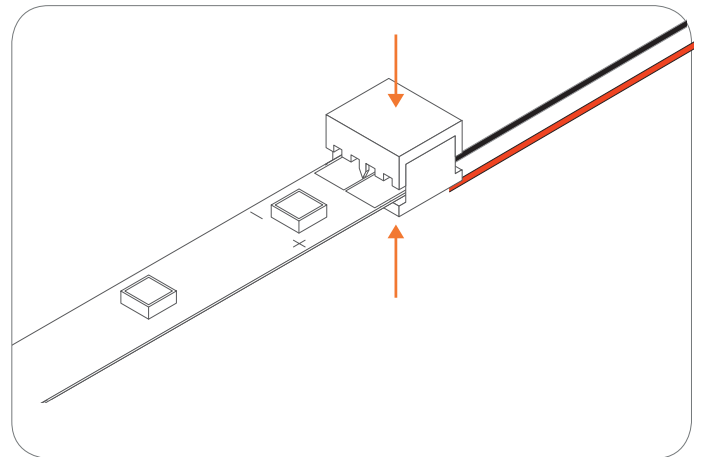
Indoor environment | (IP20)



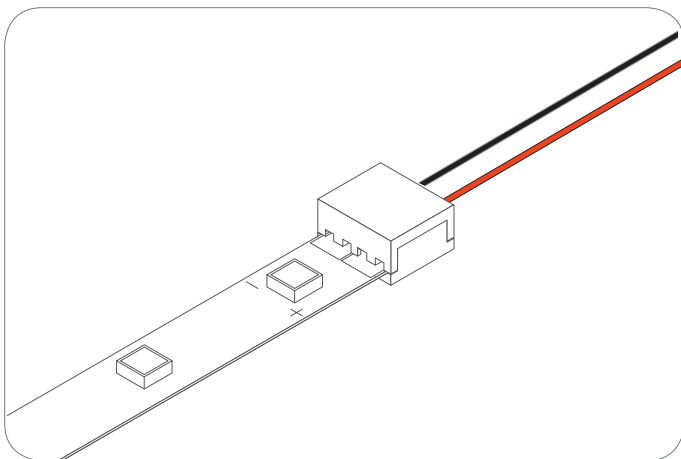
Indoor environment | (IP00) Solder



Open the PCB connector.



Push the OrgaLED® PCB LED strip into the connector. Make sure the + is above.



Close the PCB connector.

## Product Specifications - Deco White

<b>Deco White PCB</b>	<b>2400K</b>	<b>2700K</b>	<b>3000K</b>	<b>4000K</b>	<b>6500K</b>
Product code	012197	012174	012180	012186	012185
Luminous flux	27 lm/ft	32 lm/ft	31 lm/ft	34 lm/ft	34 lm/ft
Luminous efficiency	105 lm/W	120 lm/W	115 lm/W	128 lm/W	60 lm/W
Beam angle	120°				
Dimensions	0.31 x 0.043 in				
Power (24 V DC)	0.33 W/ft	0.33 W/ft	0.33 W/ft	0.33 W/ft	0.67 W/ft
Power (25 V DC)	0.33 W/ft	0.33 W/ft	0.33 W/ft	0.33 W/ft	0.7 W/ft
CRI	> 80	> 80	> 80	> 80	> 80
Spool length	Max. 164 ft				
Section length	7.9 in				
LED	Duris™ E 5				
Number of LEDs	7 per section / 10.6 per ft				
Max. connection length	65.6 ft				
Operation voltage	24 V DC				
Max. operation voltage	25 V DC				
Dimmable	PWM dimming, 0-10V dimming				
Binning	± 50K				
Weight	0.8 oz/ft				
Expected lifetime	B50/L70 > 50,000 hours @ 104 °F				
Degree of protection (IP)	IP20				
Storage temperature	-4 °F - 131 °F				
Operation temperature	-22 °F - 131 °F				
Minimal bending radius	1.2 in				
Max. connection length between -4 °F and -22 °F is 46 ft					

## Product Specifications - Deco Color

<b>Deco Color PCB</b>	<b>Red</b>	<b>Green</b>	<b>Blue</b>	<b>Amber</b>
Product code	012182	012183	012184	012181
Luminous flux	16 lm/ft	41 lm/ft	8 lm/ft	12 lm/ft
Luminous efficiency	11 lm/W	49 lm/W	15 lm/W	9 lm/W
Beam angle	120°			
Dimensions	0.31 x 0.09 in			
Power (24 V DC)	1.3 W/ft	0.7 W/ft	0.5 W/ft	1.3 W/ft
Power (25 V DC)	1.4 W/ft	0.8 W/ft	0.5 W/ft	1.4 W/ft
CRI	> 80	> 80	> 80	> 80
Wave length	617 nm	469 nm	525 nm	587 nm
Spool length	Max. 164 ft			
Section length	7.9 in			
LED	Top LED® long life			
Number of LEDs	7 per section / 10.6 per ft			
Max. connection length	65.6 ft			
Operation voltage	24 V DC			
Max. operation voltage	25 V DC			
Dimmable	PWM dimming, 0-10V dimming			
Binning	± 50K			
Weight	0.8 oz/ft			
Expected lifetime	B50/L70 > 50,000 hours @ 104 °F			
Degree of protection (IP)	IP20			
Storage temperature	-4 °F - 131 °F			
Operation temperature	-22 °F - 131 °F1			
Minimal bending radius	1.2 in			
Max. connection length between -4 °F and -22 °F	is 46 ft			

## Product Specifications - Power White

<b>Power White PCB</b>	<b>2400K</b>	<b>2700K</b>	<b>3000K</b>	<b>4000K</b>	<b>6500K</b>
Product code	011857	011598	011600	011599	011609
Luminous flux	146 lm/ft	146 lm/ft	147 lm/ft	155 lm/ft	152 lm/ft
Luminous efficiency	85 lm/W	126 lm/W	116 lm/W	125 lm/W	104 lm/W
Beam angle	120°				
Dimensions	0.31 x 0.039 in				
Power (24 V DC)	1.3 W/ft	1.4 W/ft	1.3 W/ft	1.2 W/ft	1.2 W/ft
Power (25 V DC)	1.4 W/ft	1.4 W/ft	1.3 W/ft	1.3 W/ft	1.3 W/ft
CRI	>80	>80	>80	>80	>80
Spool Length	Max. 164 ft				
Section length	7.87 in				
LED	Duris™ E 5				
Number of LEDs	7 per section / 10.6 per ft				
Max. connection length	32.8 ft				
Operation voltage	24 V DC				
Max. operation voltage	25 V DC				
Dimmable	PWM dimming, 0-10V dimming				
Binning	± 50K				
Weight	0.8 oz/ft				
Expected lifetime	B50/L70 > 50,000 hours @ 104 °F				
Degree of protection (IP)	IP20				
Storage temperature	-4 °F - 131 °F				
Operation temperature	-22 °F - 131 °F				
Minimal bending radius	1.2 in				
Max. connection length between -4 °F and -22 °F is 23 ft					

## Product Specifications - Power Color

<b>Power Color PCB</b>	<b>Red</b>	<b>Green</b>	<b>Blue</b>	<b>Amber</b>
Product code	012176	012178	012177	012179
Luminous flux	43 lm/ft	59 lm/ft	20 lm/ft	35 lm/ft
Luminous efficiency	12 lm/W	31 lm/W	9 lm/W	11 lm/W
Beam angle	120°			
Dimensions	0.31 x 0.09 in			
Power (24 V DC)	2.5 W/ft	1.5 W/ft	2.2 W/ft	2.5 W/ft
Power (25 V DC)	2.6 W/ft	1.5 W/ft	2.2 W/ft	2.6 W/ft
CRI	> 80	> 80	> 80	> 80
Wave length	467 nm	625 nm	525 nm	587 nm
Spool length	Max. 32.8ft			
Section length	3.93 in			
LED	Top LED® long life			
Number of LEDs	5 per section / 15.2 per ft			
Max. connection length	32.8 ft			
Operation voltage	24 V DC			
Max. operation voltage	25 V DC			
Dimmable	PWM dimming, 0-10V dimming			
Binning	± 50K			
Weight	0.8 oz/ft			
Expected lifetime	B50/L70 > 50,000 hours @ 104 °F			
Degree of protection (IP)	IP20			
Storage temperature	-4 °F - 131 °F			
Operation temperature	-22 °F - 131 °F			
Minimal bending radius	1.2 in			
Max. connection length between -4 °F and -22 °F is 23 ft				

## Product Specifications - High Power

High Power PCB	2400K	2700K	3000K	4000K	6500K
Product code	012199	012192	012193	012194	012195
Luminous flux	223 lm/ft	254 lm/ft	228 lm/ft	263 lm/ft	251 lm/ft
Luminous efficiency	70 lm/W	79 lm/W	74 lm/W	83 lm/W	81 lm/W
Beam angle	120°				
Dimensions	0.31 x 0.055 in (W x L)				
Power (24 V DC)	2.7 W/ft	2.7 W/ft	2.5 W/ft	2.6 W/ft	2.6 W/ft
Power (25 V DC)	2.8 W/ft	2.8 W/ft	2.6 W/ft	2.7 W/ft	2.7 W/ft
CRI	> 80	> 80	> 80	> 80	> 80
Spool length	Max. 164 ft				
Section length	2 in				
LED	Duris™ E 5				
Number of LEDs	6 per inch / 36.5 per ft				
Max. connection length	32.8 ft				
Operation voltage	24 V DC				
Max. operation voltage	25 V DC				
Dimmable	PWM dimming, 0-10V dimming				
Binning	± 50K				
Weight	0.8 oz/ft				
Expected lifetime	B50/L70 > 50,000 hours @ 104 °F				
Degree of protection (IP)	IP20				
Storage temperature	-4 °F - 131 °F				
Operation temperature	-22 °F - 131 °F1				
Minimal bending radius	1.2 in				
Max. connection length between -4 °F and -22 °F	is 23 ft				

## Product Specifications - Photon 1200

<b>Photon 1200 PCB</b>	<b>2000K</b>	<b>2400K</b>	<b>2700K</b>	<b>3000K</b>	<b>4000K</b>	<b>6500K</b>
Product code	012147	012148	012149	012150	012151	012152
Luminous flux	305 lm/ft	356 lm/ft	368 lm/ft	375 lm/ft	372 lm/ft	373 lm/ft
Beam angle	120°					
Dimensions	0.31 x 0.05 in					
Power (24 V DC)	3.2 W/ft	3.2 W/ft	2.7 W/ft	2.7 W/ft	2.4 W/ft	2.4 W/ft
Power (25 V DC)	3.3 W/ft	3.3 W/ft	2.8 W/ft	2.8 W/ft	2.5 W/ft	2.5 W/ft
CRI	> 80 ( >90 available in 27, 30 and 40K)					
Spool length	Max. 29.5 ft					
Section length	3.93 in					
LED	Nichia					
Number of LEDs	7 per section / 21.3 per ft					
Max. connection length	29.5 ft					
Operation voltage	24 V DC					
Max. operation voltage	25 V DC					
Dimmable	PWM dimming, 0-10V dimming					
Binning	± 50K					
Weight	0.8 oz/ft					
Expected lifetime	B50/L70 > 60,000 hours @ 104 °F					
Degree of protection	IP20					
Storage temperature	-40 °F - 131°F					
Operation temperature	-22 °F - 131 °F2					
Minimal bending radius	1.2 in					
Max. connection length between -4 °F and -22 °F is 23 ft						



## Product Specifications - Photon 2000

<b>Photon 2000 PCB</b>	<b>2000K</b>	<b>2400K</b>	<b>2700K</b>	<b>3000K</b>	<b>4000K</b>	<b>6500K</b>
Product code	012153	012154	012155	012156	012157	012158
Luminous flux	468 lm/ft	521 lm/ft	548 lm/ft	548 lm/ft	558 lm/ft	558 lm/ft
Beam angle	120°					
Dimensions	0.31 x 0.05 in					
Power (24 V DC)	5.5 W/ft	5.5 W/ft	4.6 W/ft	4.6 W/ft	4.1 W/ft	4.1 W/ft
Power (25 V DC)	5.6 W/ft	5.6 W/ft	4.7 W/ft	4.7 W/ft	4.2 W/ft	4.2 W/ft
CRI	> 80 ( >90 available in 27, 30 and 40K)					
Spool length	Max. 14.8 ft					
Section length	3.93 in					
LED	Nichia					
Number of LEDs	7 per section / 21.3 per ft					
Max. connection length	14.8 ft					
Operation voltage	24 V DC					
Max. operation voltage	25 V DC					
Dimmable	PWM dimming, 0-10V dimming					
Binning	± 50K					
Weight	0.8 oz/ft					
Expected lifetime	B50/L70 > 60,000 hours @ 104 °F					
Degree of protection	IP20					
Storage temperature	-40 °F - 131°F					
Operation temperature	-22 °F - 131 °F2					
Minimal bending radius	1.2 in					
Max. connection length between -4 °F and -22 °F is 23 ft						

## Product Specifications - Photon 3000

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<b>Photon 3000 PCB</b>	<b>2000K</b>	<b>2400K</b>	<b>2700K</b>	<b>3000K</b>	<b>4000K</b>	<b>6500K</b>
Product code	012159	012160	012161	012162	012163	012164
Luminous flux	699 lm/ft	776 lm/ft	802 lm/ft	849 lm/ft	812 lm/ft	797 lm/ft
Beam angle	120°					
Dimensions	0.31 x 0.05 in					
Power (24 V DC)	8.8 W/ft	8.8 W/ft	7.2 W/ft	7.2 W/ft	6.6 W/ft	6.6 W/ft
Power (25 V DC)	8.9 W/ft	8.9 W/ft	7.3 W/ft	7.3 W/ft	6.7 W/ft	6.7 W/ft
CRI	> 80 ( >90 available in 27, 30 and 40K)					
Spool length	Max. 9.8 ft					
Section length	3.93 in					
LED	Nichia					
Number of LEDs	7 per section / 21.3 per ft					
Max. connection length	9.8 ft					
Operation voltage	24 V DC					
Max. operation voltage	25 V DC					
Dimmable	PWM dimming, 0-10V dimming					
Binning	± 50K					
Weight	0.8 oz/ft					
Expected lifetime	B50/L70 > 60,000 hours @ 104 °F					
Degree of protection	IP20					
Storage temperature	-40 °F - 131°F					
Operation temperature	-22 °F - 131 °F2					
Minimal bending radius	1.2 in					
Max. connection length between -4 °F and -22 °F is 23 ft						


## Product Specifications - Photon 4000


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<b>Photon 4000 PCB</b>	<b>2000K</b>	<b>3000K</b>	<b>4000K</b>	<b>6500K</b>
Product code	012167	012168	012169	012170
Luminous flux	1006 m/ft	1037 lm/ft	1041 lm/ft	1038 lm/ft
Beam angle	120°			
Dimensions	0.31 x 0.05 in			
Power (24 V DC)	8.8 W/ft	8.8 W/ft	8.8 W/ft	8.8 W/ft
Power (25 V DC)	8.9 W/ft	8.9 W/ft	8.9 W/ft	8.9 W/ft
CRI	> 80 ( >90 available in 27, 30 and 40K)			
Spool length	Max. 9.8 ft			
Section length	3.93 in			
LED	Nichia			
Number of LEDs	7 per section / 21.3 per ft			
Max. connection length	9.8 ft			
Operation voltage	24 V DC			
Max. operation voltage	25 V DC			
Dimmable	PWM dimming, 0-10V dimming			
Binning	± 50K			
Weight	0.8 oz/ft			
Expected lifetime	B50/L70 > 60,000 hours @ 104 °F			
Degree of protection	IP20			
Storage temperature	-40 °F - 131°F			
Operation temperature	-22 °F - 131 °F2			
Minimal bending radius	1.2 in			
Max. connection length between -4 °F and -22 °F is 23 ft				


## Symbols


- 


UL is a world leader in product safety testing and certification. UL sets standards and tests products to make sure they meet standards.
- 


The ETL Listed mark indicates that your product has been tested by Intertek and found in compliance with accepted UL standards.
- 


Electro Static Discharge (ESD) sensitive device, apply standard ESD precautions when handling the product.
- 


Manufacturer's declaration that the product meets the applicable EC directives.
- 


Suitable for mounting on all surfaces and suitable to cover with insulating material.
- 


Restriction of Hazardous Substances (RoHS): product complies with the RoHS directive and each homogeneous material does not exceed the limits for the materials mentioned under the RoHS directive (Pb, Hg, Cd, Cr6+, PBB and PBDE).
- 


This product can be both IP40 and IP68 depending on the configuration and application. See the documentation for the exact IP rating.
- 


Bending of the LED strip is possible with a radius of  $\geq 1.2$  inches in the specified direction.
- 


Electrical appliance class III: this product is designed to be supplied from an extra-low voltage ( $\leq 60.0$  V DC or  $\leq 42.4$  V AC).
- 


System guarantee of 5 years when the complete system consist of OrgaLED® products with the 5 year system warranty logo.
- 


Product is resistant against ultraviolet (UV) light or sunlight. Non-UV resistant products can degrade or discolor fast when exposed to UV.
- 


Product can be cleaned with normal cleaning agents as specified in the datasheet under 'chemical compliances.'
- 

This product can be stored and used below 32 degrees Fahrenheit. Verify the minimum storage and operation temperature in the datasheet for the lowest temperature allowed.
- 

This product can be applied in seawater and its environment. Elements in seawater will have no harmful effect on the product. For chemical specifications see datasheet. Verify the IP rating for proper use.
- 

This product can be applied inside swimming pool environments. Elements in the air will have no harmful effect on the product. For chemical specifications of these elements see datasheet. Verify the IP rating for proper use.
- 

This product is available on request and can be submerged n swimming pools and their environments. Disinfectants will have no harmful effect on product. For chemical specifications of these elements see datasheet. Verify the IP rating for proper use.
- 

The CRI value of this product is 80 or higher.
- 

The binning tolerance of this product is 2 MacAdam.

## Disclaimer

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