

# SIGN TUBE LIGHT



## Easy Retrofit



## Direct AC Power For New Installation



Our new and revolutionary SignStorm Sign tube Offering significant energy-efficiency and lifetime improvements over fluorescent lamps. SignStorm lamps are installed by bypassing existing fluorescent ballasts, and hard-wiring tombstone lamp-holders directly to incoming AC power leads. Dual-ended bypass lamps eliminate the need to replace shunted tombstone lamp-holders in existing fluorescent luminaires. AC power code is also provided for new installation.

## Extreme Energy savings

Get comparable light output using Sign Storm with fluorescent lamps. Sign Storm also has a longer useful life compared to fluorescent, reducing maintenance and replacement costs.

## Quick And Easy Installation

Our revolutionary technology eliminates the need for an external driver and ballast while still using the existing sockets. Type B, ballast bypass design saves time and fast and easy installation.

## No Hot Spot

We've added optical lenses to cover each individual LED chip in the tube, which eliminates hot spots and ensures consistent light distribution across both faces of the sign.

# SIGN TUBE LIGHT

## Only Four Sizes

We have solutions for any size sign cabinet. Only four sizes of SIGN STORM are capable of creating practically any size.

## Innovation

Revolutionary design consists of 2 parts that combine to be one tube which can make virtually any size.

## Retrofit & New Installation

Rotatable R17 end cap that swivels, make retrofit easy and AC power code is specially designed for new installation.

## Built To Last

Heavy duty aluminum heatsink ensures the LEDs run cooler for longer. Plastic and aluminum construction ensures less breakage.

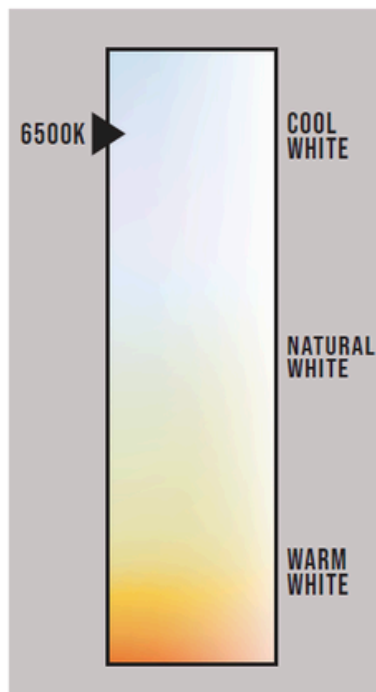
## Product Features

- Up to 125 lumens per watt
- Input Voltage 120-277Vac 50-60Hz
- Operating temperature: -20°C to 45°C
- High energy efficiency, long lifespan, 50,000 hour lifetime
- Lockable and Rotatable R17d end cap ensures easy installation and consistent light distribution
- Integral LED driver (non-isolated), eliminates the need for an external driver or ballast
- High Quality and Efficacy Hongli 2835 chips
- This product is IP44 rated, therefore, it is touchproof and resistant to dust
- Environment friendly with no mercury
- Type B, ballast bypass design offers easy installation and operation
- Direct replacement for fluorescent lamps
- Reduced maintenance and replacement costs
- Available in four different sizes
- Option of making virtually any size by combining two parts of the product in one tube
- Non flicker, optical lens covers eliminate hot spots and ensure consistent light distribution
- Aluminium + PC lamp housing ensures less breakage and good heat dissipation
- ETL listed

# SIGN TUBE LIGHT

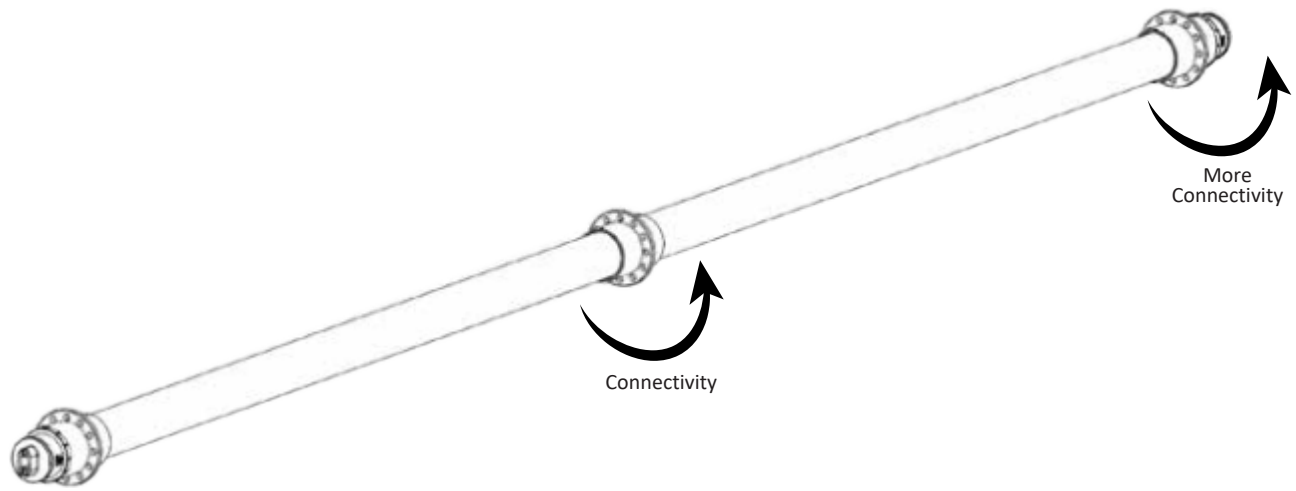
| WATT  | LUMENS | ILLUMINATION      | SIZE | TYPE                           | CCT   | IP RATING | INPUT VOLTAGE | CERTIFICATIONS |
|-------|--------|-------------------|------|--------------------------------|-------|-----------|---------------|----------------|
| 3W    | 336Lm  | Single Sided 180° | 12"  | Type B /<br>Double Ended Power | 6500K | IP44      | AC 120-277V   | ETL            |
| 4.5W  | 507Lm  | Single Sided 180° | 18"  |                                |       |           |               |                |
| 7.5W  | 844Lm  | Single Sided 180° | 30"  |                                |       |           |               |                |
| 10.5W | 1181Lm | Single Sided 180° | 42"  |                                |       |           |               |                |
| 6W    | 675Lm  | Double Sided 360° | 12"  |                                |       |           |               |                |
| 9W    | 1012Lm | Double Sided 360° | 18"  |                                |       |           |               |                |
| 15W   | 1687Lm | Double Sided 360° | 30"  |                                |       |           |               |                |
| 21W   | 2362Lm | Double Sided 360° | 42"  |                                |       |           |               |                |

## Correlated Color Temperature (CCT)

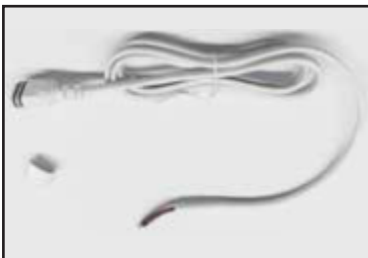


# SIGN TUBE LIGHT

R17d base adapter connect



Waterproof power cord connect



# SIGN TUBE LIGHT

## Specifications

|                     |                        |                       |
|---------------------|------------------------|-----------------------|
| General Performance | Model #                | BLT-ST812-3WD-180-65K |
|                     | Watt                   | 3W                    |
|                     | Color Temperature Adj. | 6500K                 |
|                     | Lumens                 | Up to 336LM           |
|                     | Lumen Efficacy         | Up to 112LM/W         |
|                     | CRI (Ra)               | >80                   |
|                     | Diffuser Type          | Clear                 |
|                     | Beam Angle             | 180o                  |
| Electrical          | Input Voltage          | 120-277VAC 50/60Hz    |
|                     | PF                     | ≥0.9                  |
| Physical            | DLC Type               | Type B                |
|                     | Power Ends             | 2 Power Ends          |
|                     | Size                   | 12"                   |
|                     | Lens                   | Clear Cover           |
| Qualification       | LED Brand              | Hongli                |
|                     | LED Type               | SMD 2835              |
|                     | LED Qty                | 9 Pcs                 |
|                     | Housing                | PC + Aluminum         |
|                     | Driver                 | Beyond LED Technology |
|                     | IP Rating              | IP44                  |
|                     | Warranty Time          | 5 Years               |

# SIGN TUBE LIGHT

## Specifications

|                     |                        |                         |
|---------------------|------------------------|-------------------------|
| General Performance | Model #                | BLT-ST818-4.5WD-180-65K |
|                     | Watt                   | 4.5W                    |
|                     | Color Temperature Adj. | 6500K                   |
|                     | Lumens                 | Up to 507LM             |
|                     | Lumen Efficacy         | Up to 113LM/W           |
|                     | CRI (Ra)               | >80                     |
|                     | Diffuser Type          | Clear                   |
|                     | Beam Angle             | 180o                    |
| Electrical          | Input Voltage          | 120-277VAC 50/60Hz      |
|                     | PF                     | ≥0.9                    |
| Physical            | DLC Type               | Type B                  |
|                     | Power Ends             | 2 Power Ends            |
|                     | Size                   | 12"                     |
|                     | Lens                   | Clear Cover             |
| Qualification       | LED Brand              | Hongli                  |
|                     | LED Type               | SMD 2835                |
|                     | LED Qty                | 12 Pcs                  |
|                     | Housing                | PC + Aluminum           |
|                     | Driver                 | Beyond LED Technology   |
|                     | IP Rating              | IP44                    |
|                     | Warranty Time          | 5 Years                 |

# SIGN TUBE LIGHT

## Specifications

|                     |                        |                         |
|---------------------|------------------------|-------------------------|
| General Performance | Model #                | BLT-ST830-7.5WD-180-65K |
|                     | Watt                   | 7.5W                    |
|                     | Color Temperature Adj. | 6500K                   |
|                     | Lumens                 | Up to 844LM             |
|                     | Lumen Efficacy         | Up to 112LM/W           |
|                     | CRI (Ra)               | >80                     |
|                     | Diffuser Type          | Clear                   |
|                     | Beam Angle             | 180o                    |
| Electrical          | Input Voltage          | 120-277VAC 50/60Hz      |
|                     | PF                     | ≥0.9                    |
| Physical            | DLC Type               | Type B                  |
|                     | Power Ends             | 2 Power Ends            |
|                     | Size                   | 30"                     |
|                     | Lens                   | Clear Cover             |
| Qualification       | LED Brand              | Hongli                  |
|                     | LED Type               | SMD 2835                |
|                     | LED Qty                | 22 Pcs                  |
|                     | Housing                | PC + Aluminum           |
|                     | Driver                 | Beyond LED Technology   |
|                     | IP Rating              | IP44                    |
|                     | Warranty Time          | 5 Years                 |

# SIGN TUBE LIGHT

## Specifications

|                     |                        |                          |
|---------------------|------------------------|--------------------------|
| General Performance | Model #                | BLT-ST842-10.5WD-180-65K |
|                     | Watt                   | 10.5W                    |
|                     | Color Temperature Adj. | 6500K                    |
|                     | Lumens                 | Up to 1181LM             |
|                     | Lumen Efficacy         | Up to 112LM/W            |
|                     | CRI (Ra)               | >80                      |
|                     | Diffuser Type          | Clear                    |
|                     | Beam Angle             | 180o                     |
| Electrical          | Input Voltage          | 120-277VAC 50/60Hz       |
|                     | PF                     | ≥0.9                     |
| Physical            | DLC Type               | Type B                   |
|                     | Power Ends             | 2 Power Ends             |
|                     | Size                   | 42"                      |
|                     | Lens                   | Clear Cover              |
| Qualification       | LED Brand              | Hongli                   |
|                     | LED Type               | SMD 2835                 |
|                     | LED Qty                | 30 Pcs                   |
|                     | Housing                | PC + Aluminum            |
|                     | Driver                 | Beyond LED Technology    |
|                     | IP Rating              | IP44                     |
|                     | Warranty Time          | 5 Years                  |

# SIGN TUBE LIGHT

## Specifications

|                     |                        |                       |
|---------------------|------------------------|-----------------------|
| General Performance | Model #                | BLT-ST812-6WD-360-65K |
|                     | Watt                   | 6W                    |
|                     | Color Temperature Adj. | 6500K                 |
|                     | Lumens                 | Up to 675LM           |
|                     | Lumen Efficacy         | Up to 112LM/W         |
|                     | CRI (Ra)               | >80                   |
|                     | Diffuser Type          | Clear                 |
|                     | Beam Angle             | 360o                  |
| Electrical          | Input Voltage          | 120-277VAC 50/60Hz    |
|                     | PF                     | ≥0.9                  |
| Physical            | DLC Type               | Type B                |
|                     | Power Ends             | 2 Power Ends          |
|                     | Size                   | 12"                   |
|                     | Lens                   | Clear Cover           |
| Qualification       | LED Brand              | Hongli                |
|                     | LED Type               | SMD 2835              |
|                     | LED Qty                | 18 Pcs                |
|                     | Housing                | PC + Aluminum         |
|                     | Driver                 | Beyond LED Technology |
|                     | IP Rating              | IP44                  |
|                     | Warranty Time          | 5 Years               |

# SIGN TUBE LIGHT

## Specifications

|                     |                        |                       |
|---------------------|------------------------|-----------------------|
| General Performance | Model #                | BLT-ST818-9WD-360-65K |
|                     | Watt                   | 9W                    |
|                     | Color Temperature Adj. | 6500K                 |
|                     | Lumens                 | Up to 1012LM          |
|                     | Lumen Efficacy         | Up to 112LM/W         |
|                     | CRI (Ra)               | >80                   |
|                     | Diffuser Type          | Clear                 |
|                     | Beam Angle             | 360o                  |
| Electrical          | Input Voltage          | 120-277VAC 50/60Hz    |
|                     | PF                     | ≥0.9                  |
| Physical            | DLC Type               | Type B                |
|                     | Power Ends             | 2 Power Ends          |
|                     | Size                   | 18"                   |
|                     | Lens                   | Clear Cover           |
| Qualification       | LED Brand              | Hongli                |
|                     | LED Type               | SMD 2835              |
|                     | LED Qty                | 24 Pcs                |
|                     | Housing                | PC + Aluminum         |
|                     | Driver                 | Beyond LED Technology |
|                     | IP Rating              | IP44                  |
|                     | Warranty Time          | 5 Years               |

# SIGN TUBE LIGHT

## Specifications

|                     |                        |                        |
|---------------------|------------------------|------------------------|
| General Performance | Model #                | BLT-ST830-15WD-360-65K |
|                     | Watt                   | 15W                    |
|                     | Color Temperature Adj. | 6500K                  |
|                     | Lumens                 | Up to 1687LM           |
|                     | Lumen Efficacy         | Up to 112LM/W          |
|                     | CRI (Ra)               | >80                    |
|                     | Diffuser Type          | Clear                  |
|                     | Beam Angle             | 360o                   |
| Electrical          | Input Voltage          | 120-277VAC 50/60Hz     |
|                     | PF                     | ≥0.9                   |
| Physical            | DLC Type               | Type B                 |
|                     | Power Ends             | 2 Power Ends           |
|                     | Size                   | 30"                    |
|                     | Lens                   | Clear Cover            |
| Qualification       | LED Brand              | Hongli                 |
|                     | LED Type               | SMD 2835               |
|                     | LED Qty                | 44 Pcs                 |
|                     | Housing                | PC + Aluminum          |
|                     | Driver                 | Beyond LED Technology  |
|                     | IP Rating              | IP44                   |
|                     | Warranty Time          | 5 Years                |

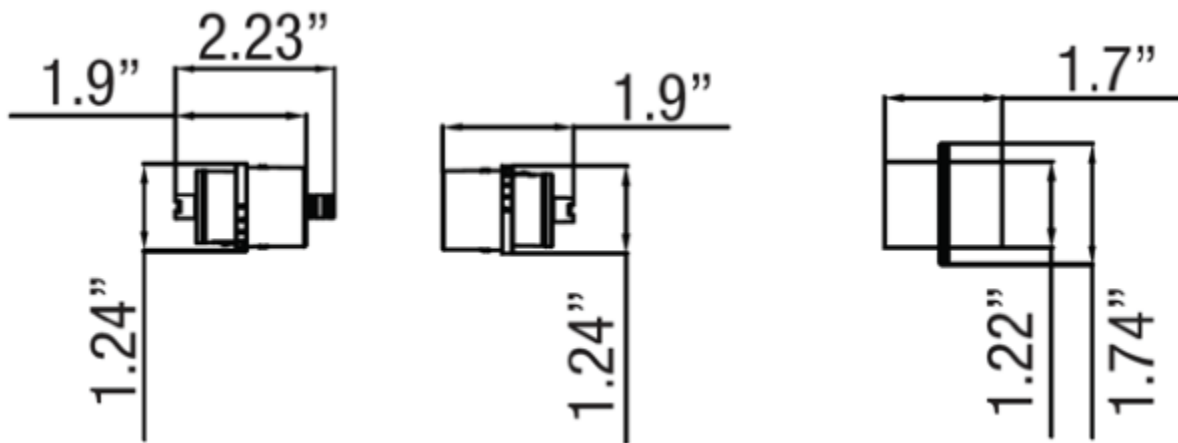
# SIGN TUBE LIGHT

## Specifications

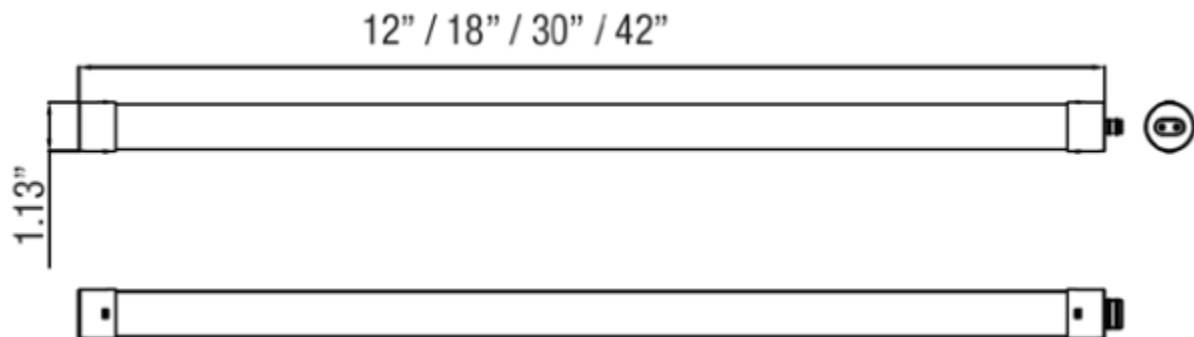
|                     |                        |                        |
|---------------------|------------------------|------------------------|
| General Performance | Model #                | BLT-ST842-21WD-360-65K |
|                     | Watt                   | 21W                    |
|                     | Color Temperature Adj. | 6500K                  |
|                     | Lumens                 | Up to 2362LM           |
|                     | Lumen Efficacy         | Up to 112LM/W          |
|                     | CRI (Ra)               | >80                    |
|                     | Diffuser Type          | Clear                  |
|                     | Beam Angle             | 360o                   |
| Electrical          | Input Voltage          | 120-277VAC 50/60Hz     |
|                     | PF                     | ≥0.9                   |
| Physical            | DLC Type               | Type B                 |
|                     | Power Ends             | 2 Power Ends           |
|                     | Size                   | 42"                    |
|                     | Lens                   | Clear Cover            |
| Qualification       | LED Brand              | Hongli                 |
|                     | LED Type               | SMD 2835               |
|                     | LED Qty                | 60 Pcs                 |
|                     | Housing                | PC + Aluminum          |
|                     | Driver                 | Beyond LED Technology  |
|                     | IP Rating              | IP44                   |
|                     | Warranty Time          | 5 Years                |

# SIGN TUBE LIGHT

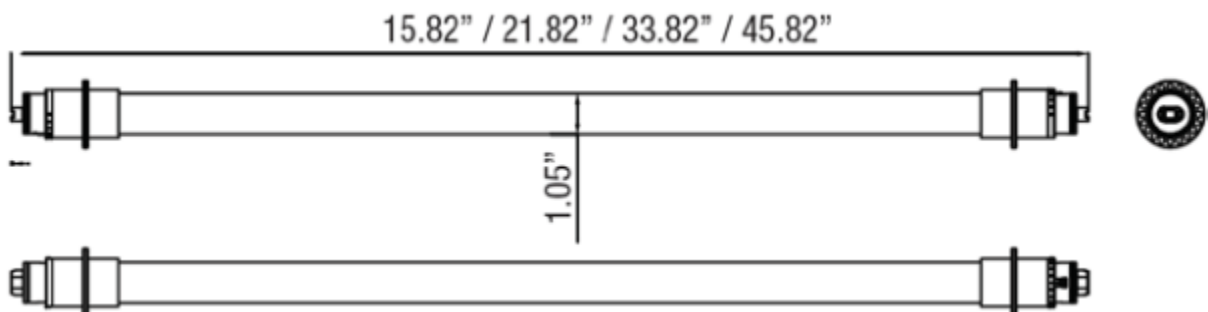
## Dimensions



Single Sided



Double Sided



# SIGN TUBE LIGHT

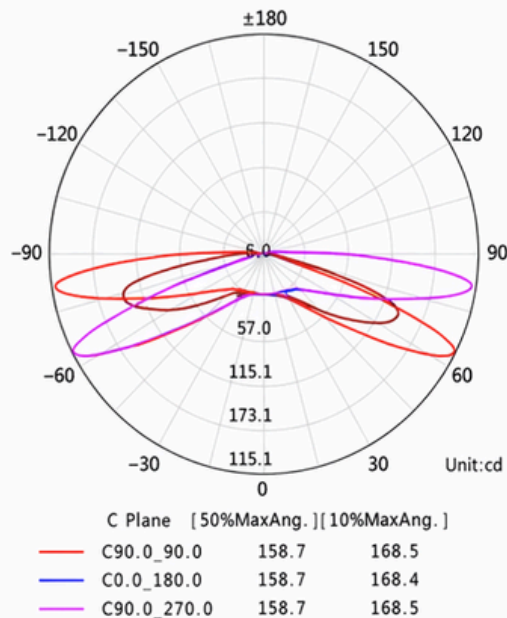
## Light Distribution Testing Parameters

### Luminaire Data

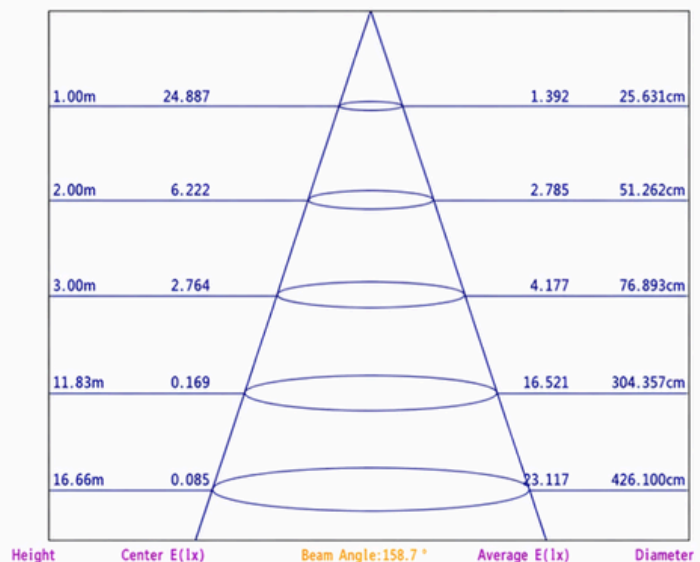
|                           |                        |                       |                             |
|---------------------------|------------------------|-----------------------|-----------------------------|
| Luminary Flux(lm):        | 375.486                | Field Angle(10%Imax): | 168.5(°)                    |
| Luminary Efficiency:      | 100.13%                | Down Lumens&Percent:  | 361.370lm 96.24%            |
| Luminary EER(lm/W):       | 134.102                | Up Lumens&Percent:    | 14.116lm 3.76%              |
| Max. Candela(cd):         | 143.906                | S/MH:                 | C0_a180=2.780 C90_270=2.897 |
| Max Cand@Ang. (°):        | C=270.0 $\gamma$ =64.0 | CIE Type:             | Semi-Direct                 |
| Beam Angle(50%Imax):      | 158.7(°)               | ErP $\Phi$ use(120°): | 138.416lm                   |
| Left==88.3° , Right=70.4° |                        | IRF(%):               | 37.361                      |

### Photometric Results

#### Distribution Diagram



#### The Average Illuminance Effective Figure



# SIGN TUBE LIGHT

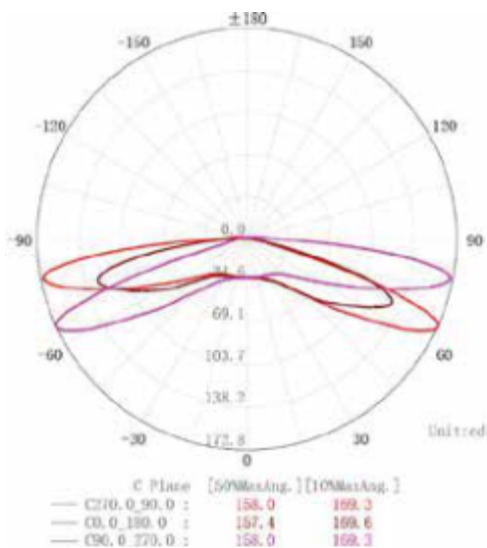
## Light Distribution Testing Parameters

### Luminaire Data

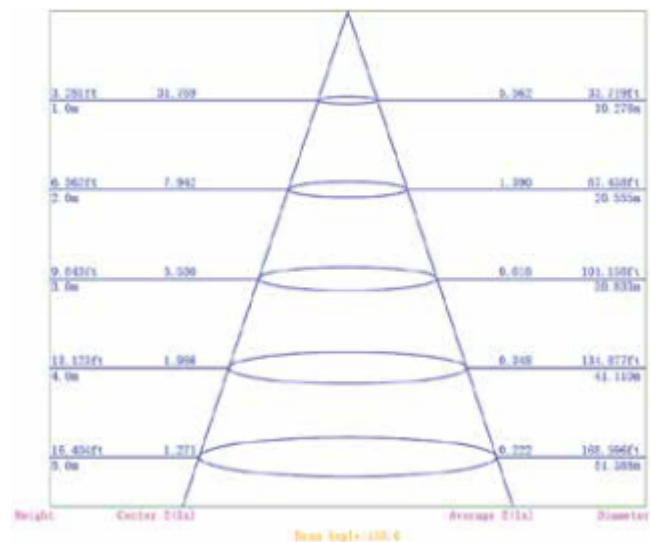
|                          |                        |                       |                             |
|--------------------------|------------------------|-----------------------|-----------------------------|
| Luminary Flux(lm):       | 457.733                | Field Angle(10%Imax): | 169.3(°)                    |
| Luminary Efficiency:     | 100.16%                | Down Lumens&Percent:  | 441.952lm 96.55%            |
| Luminary EER(lm/W):      | 123.712                | Up Lumens&Percent:    | 15.781lm 3.45%              |
| Max. Candela(cd):        | 172.787                | S/MH:                 | C0_a180=2.568 C90_270=2.847 |
| Max Cand@Ang. (°):       | C=270.0 $\gamma$ =65.0 | CIE Type:             | Semi-Direct                 |
| Beam Angle(50%Imax):     | 158.0(°)               | ErP $\Phi$ use(120°): | 167.848lm                   |
| Left=-85.7°, Right=72.3° |                        | IRF(%):               | 36.634                      |

## Photometric Results

### Distribution Diagram



### The Average Illuminance Effective Figure



# SIGN TUBE LIGHT

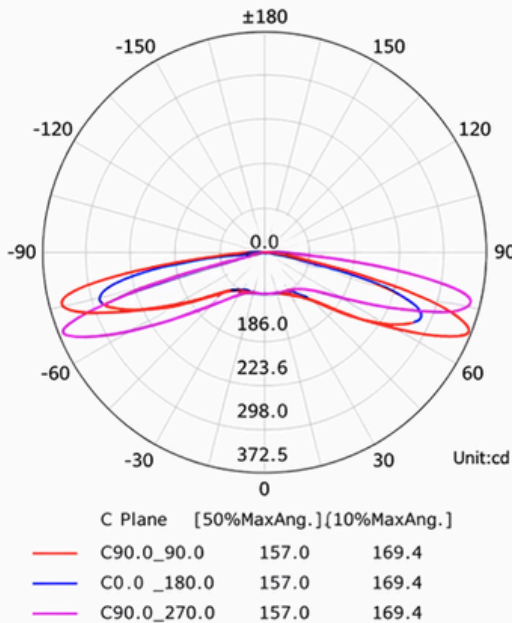
## Light Distribution Testing Parameters

### Luminaire Data

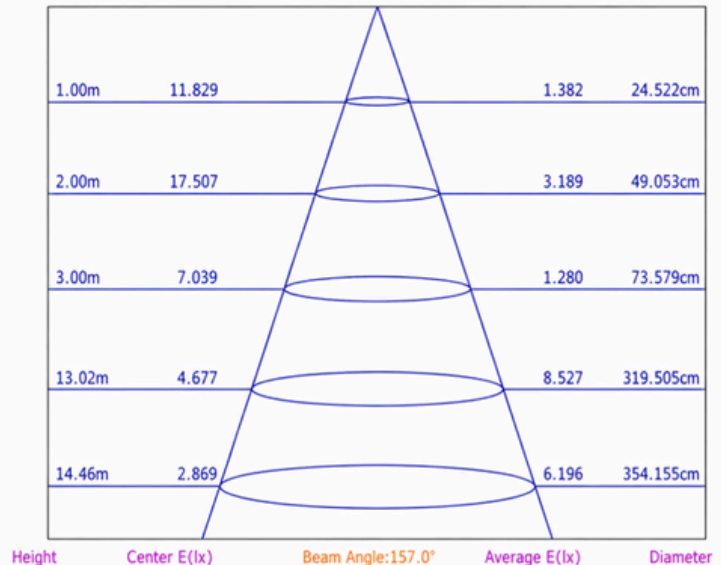
|                           |                        |                       |                             |
|---------------------------|------------------------|-----------------------|-----------------------------|
| Luminary Flux(lm):        | 1007.877               | Field Angle(10%Imax): | 169.4(°)                    |
| Luminary Efficiency:      | 100.09%                | Down Lumens&Percent:  | 977.273lm 96.96%            |
| Luminary EER(lm/W):       | 130.893                | Up Lumens&Percent:    | 30.604lm 3.04%              |
| Max. Candela(cd):         | 372.524                | S/MH:                 | C0_a180=2.562 C90_270=2.573 |
| Max Cand@Ang. (°):        | C=300.0 $\gamma$ =68.0 | CIE Type:             | Semi-Direct                 |
| Beam Angle(50%Imax):      | 157.0(°)               | ErP $\Phi$ use(120°): | 370.248lm                   |
| Left=-82.2° , Right=74.8° |                        | IRF(%) :              | 36.946                      |

### Photometric Results

#### Distribution Diagram



#### The Average Illuminance Effective Figure



# SIGN TUBE LIGHT

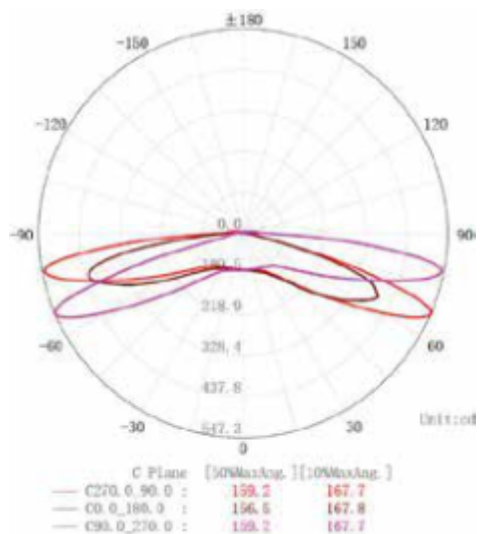
## Light Distribution Testing Parameters

### Luminaire Data

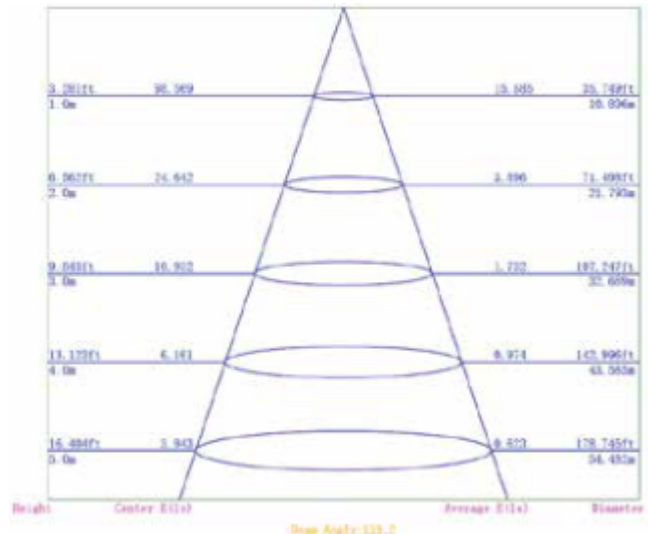
|                          |                        |                       |                             |
|--------------------------|------------------------|-----------------------|-----------------------------|
| Luminary Flux(lm):       | 1439.850               | Field Angle(10%Imax): | 167.7(°)                    |
| Luminary Efficiency:     | 100.06%                | Down Lumens&Percent:  | 1395.890lm 96.95%           |
| Luminary EER(lm/W):      | 130.895                | Up Lumens&Percent:    | 43.960lm 3.05%              |
| Max. Candela(cd):        | 547.290                | S/MH:                 | C0_a180=2.636 C90_270=2.747 |
| Max Cand@Ang. (°):       | C=270.0 $\gamma$ =67.0 | CIE Type:             | Semi-Direct                 |
| Beam Angle(50%Imax):     | 159.2(°)               | ErP $\Phi$ use(120°): | 510.222lm                   |
| Left=-85.6°, Right=73.6° |                        | IRF(%):               | 37.918                      |

## Photometric Results

### Distribution Diagram



### The Average Illuminance Effective Figure



# SIGN TUBE LIGHT

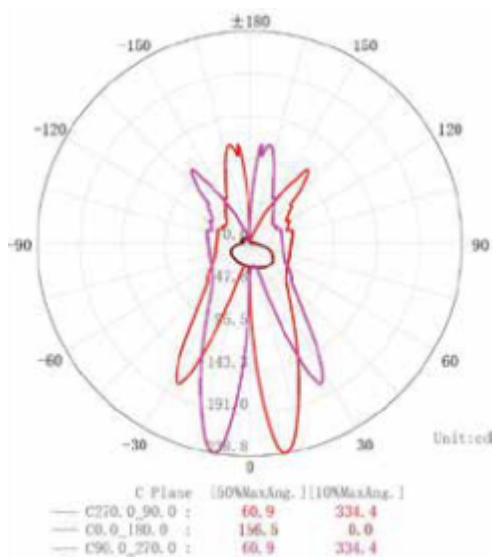
## 152732 Light Distribution Testing Parameters

### Luminaire Data

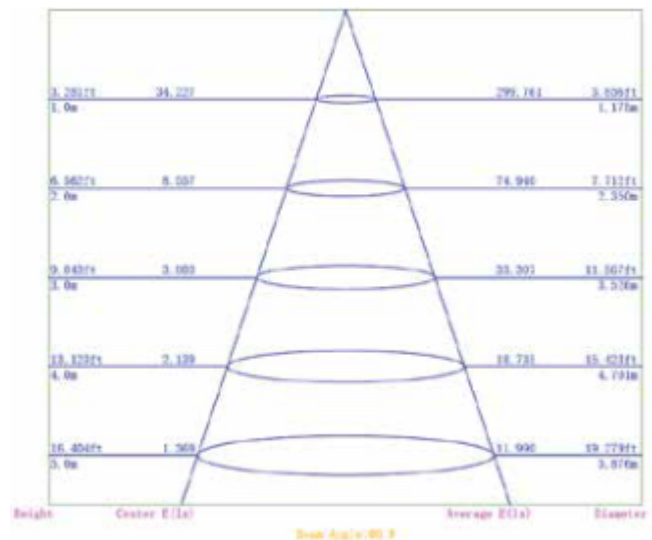
|                           |                |                       |                             |
|---------------------------|----------------|-----------------------|-----------------------------|
| Luminary Flux(lm):        | 907.472        | Field Angle(10%Imax): | 334.4(°)                    |
| Luminary Efficiency:      | 100.05%        | Down Lumens&Percent:  | 544.173lm 59.97%            |
| Luminary EER(lm/W):       | 96.540         | Up Lumens&Percent:    | 363.298lm 40.03%            |
| Max. Candela(cd):         | 238.798        | S/MH:                 | C0_a180=1.245 C90_270=2.272 |
| Max Cand@Ang. (°):        | C=270.0 γ=10.0 | CIE Type:             | Semi-Indirect               |
| Beam Angle(50%Imax):      | 60.9(°)        | ErP Φuse(120°):       | 318.387lm                   |
| Left=-35.0° , Right=25.9° |                | IRF(%):               | 192.381                     |

### Photometric Results

#### Distribution Diagram



#### The Average Illuminance Effective Figure



# SIGN TUBE LIGHT

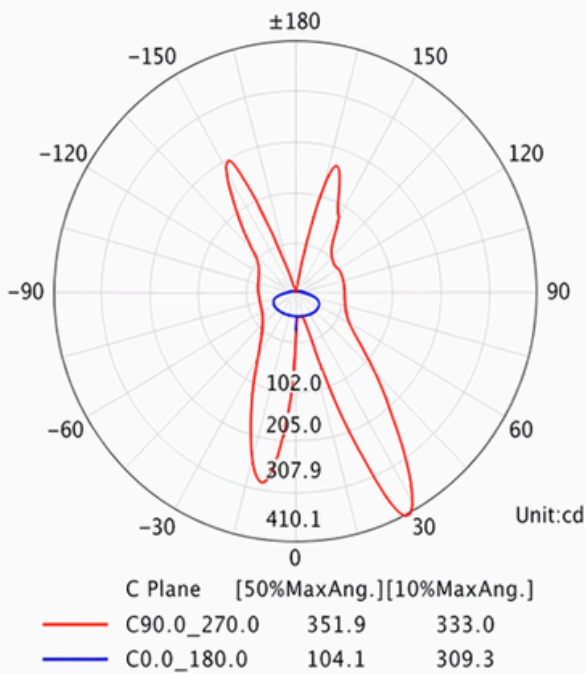
## Light Distribution Testing Parameters

### Luminaire Data

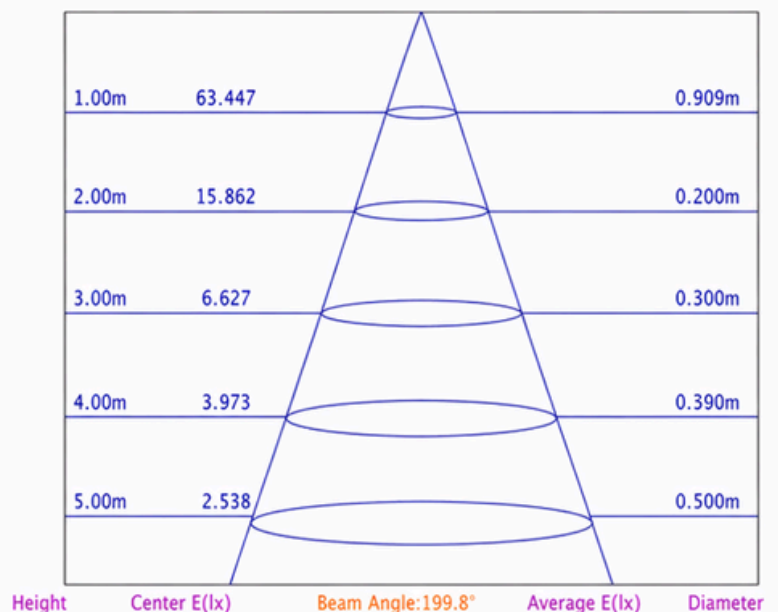
|                            |                       |                       |                             |
|----------------------------|-----------------------|-----------------------|-----------------------------|
| Luminary Flux(lm):         | 1644.040              | Field Angle(10%Imax): | 333.0(°)                    |
| Luminary Efficiency:       | 100.00%               | Down Lumens&Percent:  | 971.292lm 59.08%            |
| Luminary EER(lm/W):        | 107.454               | Up Lumens&Percent:    | 672.748lm 40.92%            |
| Max. Candela(cd):          | 410.079               | S/MH:                 | C0_a180=1.471 C90_270=2.575 |
| Max Cand@Ang. (°):         | C=90.0 $\gamma$ =27.0 | CIE Type:             | Semi-Indirect               |
| Beam Angle(50%Imax):       | 199.8(°)              | ErP $\Phi$ use(120°): | 577.601lm                   |
| Left=-156.5° , Right=43.3° |                       | IRF(%) :              | 144.802                     |

### Photometric Results

#### Distribution Diagram



#### The Average Illuminance Effective Figure



# SIGN TUBE LIGHT

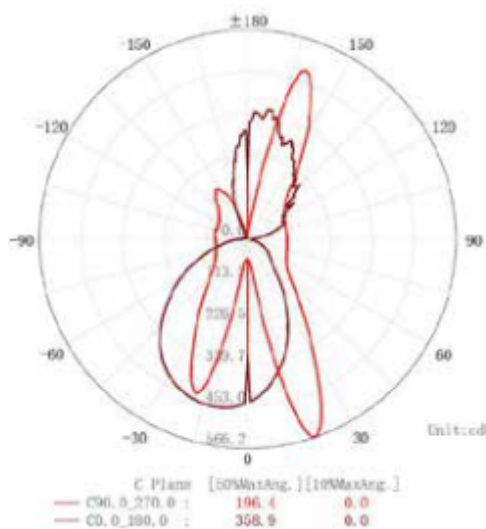
## Light Distribution Testing Parameters

### Luminaire Data

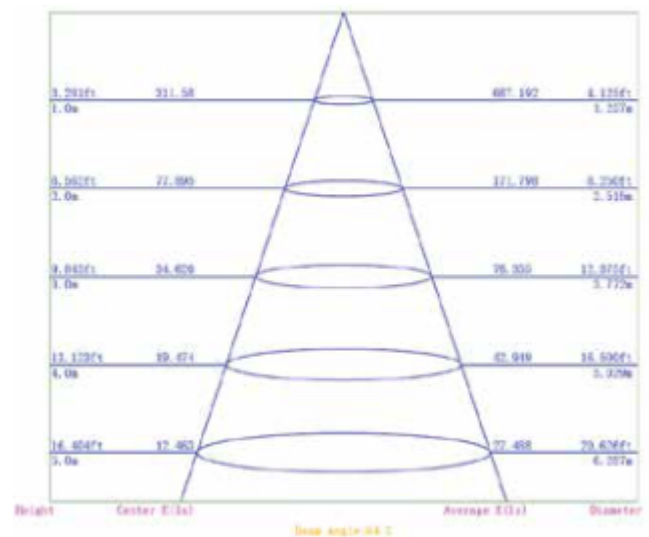
|                          |               |                       |                             |
|--------------------------|---------------|-----------------------|-----------------------------|
| Luminary Flux(lm):       | 2312.981      | Field Angle(10%Imax): | 360.0(°)                    |
| Luminary Efficiency:     | 99.83%        | Down Lumens&Percent:  | 1325.993lm 57.33%           |
| Luminary EER(lm/W):      | 106.589       | Up Lumens&Percent:    | 986.988lm 42.67%            |
| Max. Candela(cd):        | 566.224       | S/MH:                 | C0_a180=1.411 C90_270=0.003 |
| Max Cand@Ang. (°):       | C=90.0 γ=19.0 | CIE Type:             | Semi-Indirect               |
| Beam Angle(50%Imax):     | 64.3(°)       | ErP Φ use(120°):      | 771.124lm                   |
| Left=-29.8°, Right=34.5° |               | IRF(%):               | 192.650                     |

## Photometric Results

### Distribution Diagram



### The Average Illuminance Effective Figure



# SIGN TUBE LIGHT

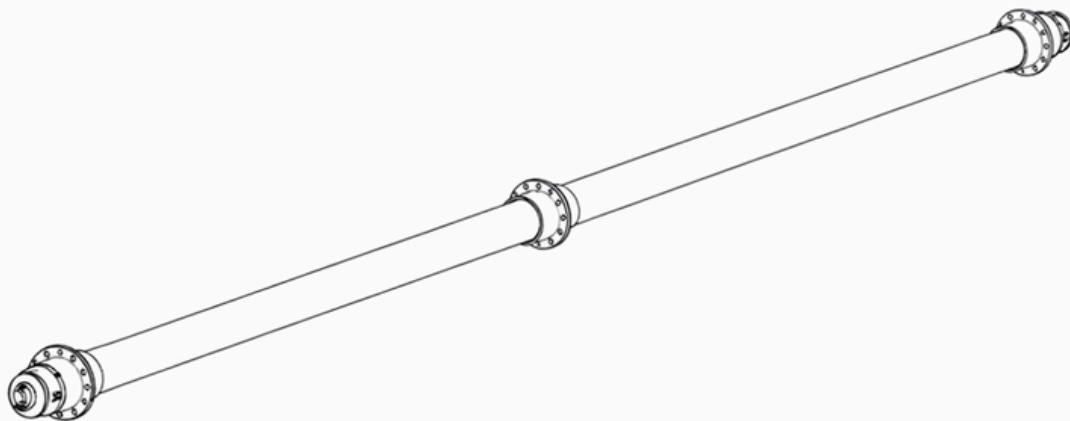
## Notes Before Installation

1. Be careful to open the carton, contact us if any damage.
2. This product must be installed in accordance with the applicable installation, code by a person familiar with the construction and operation of the product and the hazards involved.
3. "caution - risk of shock" and "disconnect power before servicing" when photoelectric switch provided.
4. Please check whether the voltage marked on the luminaire is consistent with the input voltage to be connected, so as not to damage the LED luminaire.
5. To ensure the lifetime of the product, please do not use it in a place with strong acid mist.
6. Make sure the installation position can withstand 10 times the weight of the luminaire before installation and install it at a flat place without vibration, no swing, no fire hazard.

## Caution

1. Do not use an electric generator to test the LED fixture.
2. Please abide by related country, regional and local law and regulations when install this fixture;
3. Do not install the fixture in raining days to avoid electrical shock or damage.

## Installation Instructions



Please keep this Quick Installation Guide for future reference.

Modifications to the product void the Warranty.

Suitable to replace fluorescent lamps as specified on the product label.

# SIGN TUBE LIGHT

## Notes Before Installation

### 1. INSTALLATION OR ASSEMBLY INSTRUCTIONS

- a) Wiring instructions that specify the proper method of connecting the grounding means and maintaining polarity shall be included with the luminaire in a manner that will require the installer to handle the instructions during installation.
- b) Specification of mounting hardware shall be included in the instruction sheet.
- c) Other warnings that will not lead to misuse.

### 2. THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS

3. WARNING – Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of sign electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

4. WARNING – Risk of fire or electric shock. Install this kit only in host signs that have been identified in the installation instructions and where the input rating of the retrofit kit does not exceed the input rating of the sign.

5. WARNING – Risk of fire or electric shock. Installation of this LED retrofit kit may involve drilling or punching of holes into the structure of the sign. Check for enclosed wiring and components to avoid damage to wiring and electrical parts.

6. Installer should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.

7. Installers should not disconnect existing wires from lamp holder terminals to make new connections at lamp holder terminals. Instead installers should cut existing lamp holder leads away from the lamp holder and make new electrical connections to lamp holder lead wires by employing applicable connectors.

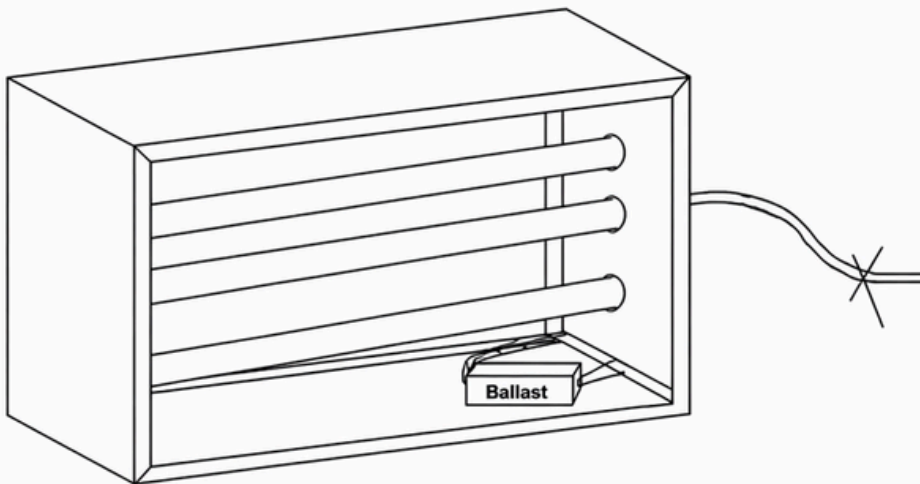
8. Repair and seal any unused openings in the electrical enclosure. Openings greater than 0.5 inches diameter require a metal patch secured by screws or rivets and caulked with non-hardening caulk. Smaller openings may be sealed with non-hardening caulk.

9. WARNING: To avoid potential fire or shock hazard, do not use this retrofit kit with existing shunted bi pin lamp holders in the host sign. Note: Shunted lamp holders are found only in fluorescent signs with Instant-Start ballasts. Instant-start ballasts can be identified by the words "Instant Start" or "I.S." marked on the ballast. This designation may be in the form of a statement pertaining to the ballast itself, or may be combined with the marking for the lamps with which the ballast is intended to be used.

# SIGN TUBE LIGHT

## Installation Guide

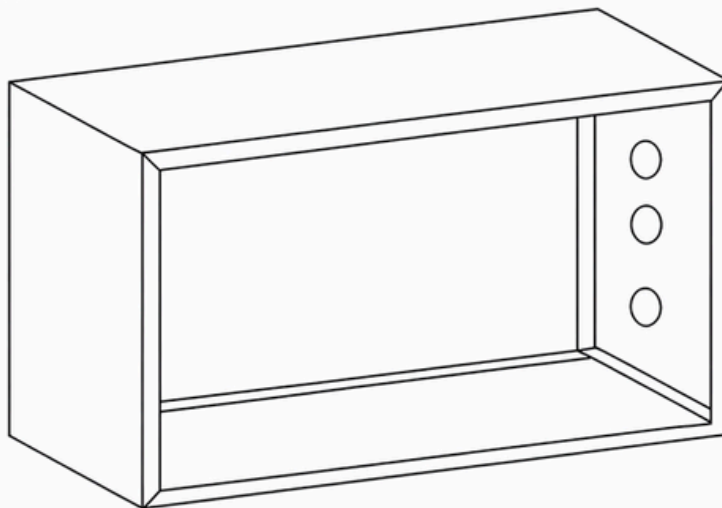
### 1. DISCONNECT POWER OF LUMINAIRE



Disconnect power to luminaire or circuit (if possible). Ensure all power is off by using a voltmeter or other method to confirm.

### 2. REMOVE EXISTING FLUORESCENT TUBE LAMP(S) AND BALLAST

- Remove fixture lens, if present.
- Remove existing fluorescent lamp(s).
- Expose the sign raceway to access the wiring. Then cut input and output wires from the ballast, and remove the ballast.

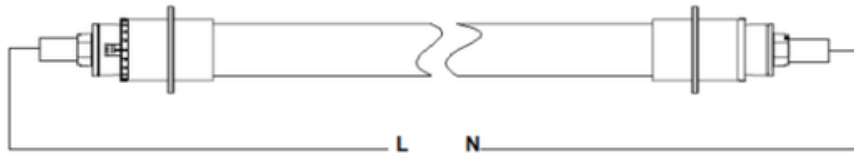


### 3. FIXTURE REWIRING

- R17d lamp holder installation, please rewiring the fixture according to the below diagram.

# SIGN TUBE LIGHT

## Installation Guide



b. Power cord installation, please rewiring the fixture according to the below diagram.



### 4. SIGN TUBE LIGHT ASSEMBLE

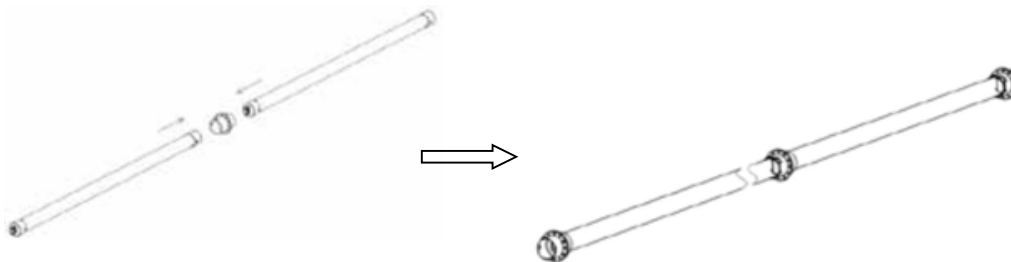
a. Please check the length of the original fluorescent tube, and then select the right components accordingly.

b. LED Sign tube light assemble

If R17d lamp holder installation, please assemble as shown below:



If Power cord installation, please assemble as shown below:



### 5. INSERT LED SIGN TUBE LIGHTS

#### 5.1 R17d lamp holder installation

a. Read label on the lamp to ensure the power end of LED is aligned with powered tube socket, then insert LED lamp in the normal way by sliding pins into sockets and rotating a quarter turn until LED tube locks in place.

b. Repeat above step for all LED tube lamps.

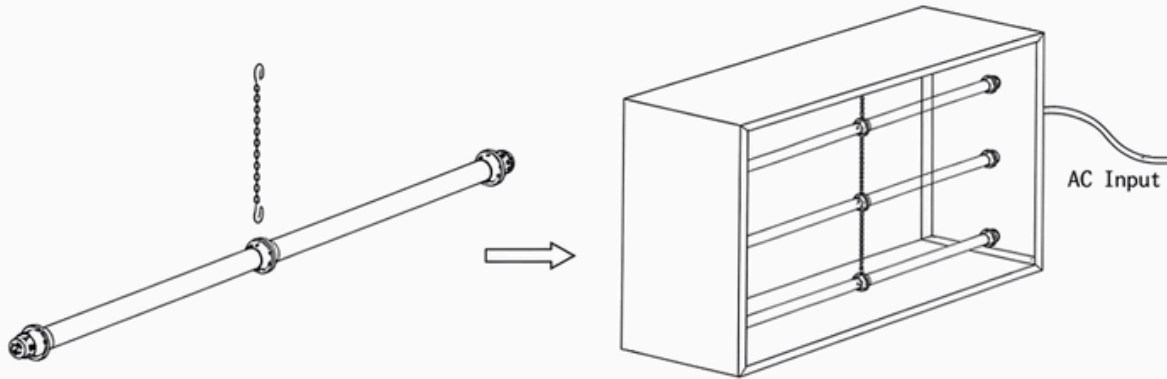
c. Fix the hanging chain to hanging connector on the splicing part of the lamp, and hang up with chains one to one between connectors, as shown below.

d. LED lamps are now fully installed

# SIGN TUBE LIGHT

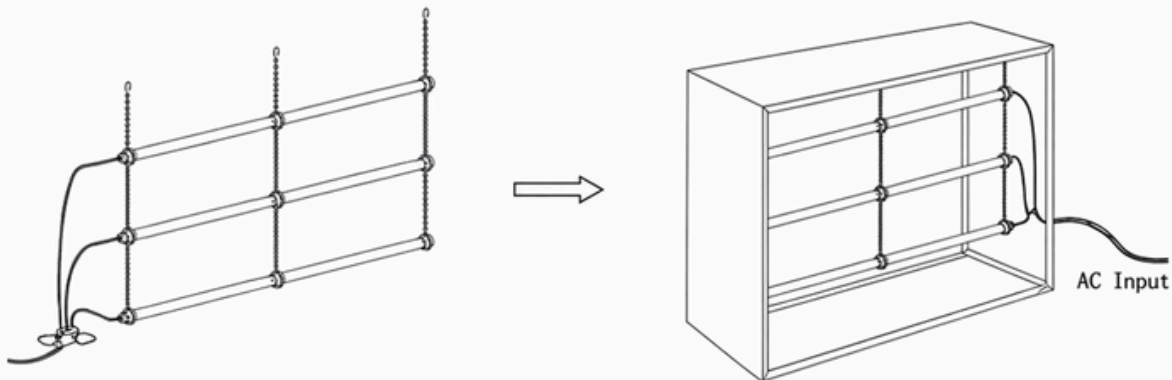
## Installation Guide

- e. Replace troffer lens, if present.
- f. After modification completed. Attach the Replacement Marking and cautionary Label to a visible place on the luminaire and keep it visible after installation.



### 5.2 Power cord installation

- a. Fix the hanging chain to hanging connectors on the splicing part and end caps of the lamp, and hang up with chains one to one between connectors, as shown below.
- b. Read label on the lamp on the bottom to ensure the power end of LED. Use connector cord to link the other end to the end of above lamp. Make sure the power of each circuit is not higher than 550W.
- c. Read label on the lamp on the bottom to ensure the power end of LED. Insert the power cord to the powered each end of the bottom lamp.
- d. Connect the power cords together to AC input wire
- e. LED lamps are now fully installed.
- f. Replace troffer lens, if present.
- g. After modification completed. Attach the Replacement Marking and cautionary Label to a visible place on the luminaire and keep it visible after installation.



### 6. RESTORE THE POWER OF LUMINAIRE

Restore power to circuit/luminaire and test light. If necessary, adjust position of LED tube, and enjoy your new LED tube light!

# SIGN TUBE LIGHT

## Trouble Shooting

| Troubles                | Check points                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------|
| Flickering of the light | Turn off the power and turn on again in 3 minutes.<br>If same phenomena occur, then call agencies. |
| Out of working          | Please check the connection.                                                                       |

## Packaging

| Box Dimension          | Gross Weight |
|------------------------|--------------|
| 16.93" x 7.52" x 8.07" | 9.48LBS      |
| 22.83" x 7.52" x 8.07" | 12.57LBS     |
| 34.8" x 7.5" x 8.07"   | 19.18LBS     |
| 46.8" x 7.5" x 8.07"   | 26.01LBS     |
| 16.93" x 7.52" x 8.07" | 10.14LBS     |
| 22.83" x 7.52" x 8.07" | 12.79LBS     |
| 34.8" x 7.5" x 8.07"   | 21.38LBS     |
| 46.8" x 7.5" x 8.07"   | 28.66LBS     |

# SIGN TUBE LIGHT

## Application

Widely used in supermarket, warehouse, garage, home, office, hotel, hospital, school etc.

## Safety Precautions

To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards read all warnings and instructions included with and on the fixture box and all fixture labels.

Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.

Commercial installation, service and maintenance of luminaires should be performed by a qualified licensed electrician.

For the installation: If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician and check your local electrical code. To prevent wiring damage or abrasion, to edges of sheet metal or other sharp objects. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

### WARNING: RISK OF FIRE OR ELECTRICAL SHOCK

Turn off electrical power at fuse or circuit breaker box before wiring fixture to the power supply.

Turn off the power when you perform any maintenance.

Verify that supply voltage is correct by comparing it with the luminaire label information.

Make all electrical and grounded connections in accordance with the National Electrical Code and any applicable local code requirements. All wiring connections should be capped with UL approved wire connectors.

### CAUTION: RISK OF INJURY

Avoid direct eye exposure to the light source while it is on.

Account for small parts and destroy packing material, as these may be hazardous to children.