



# LED NSF LINEAR HIGH BAY WITH Q-BASE

## WFS-ST series

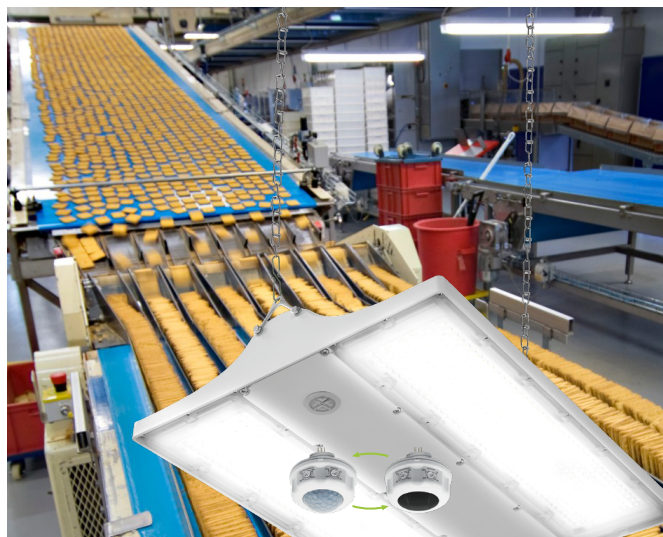
► **DESIGN** - NSF LED LINEAR HIGH BAY WITH Q-BASE STANDARD SERIES is highly efficient with a 170lm/W output. It has a built-in Q-base, allowing you to install the microwave motion or PIR sensor. The corrosion-resistant aluminum housing provide excellent heat dissipation. Surge protection 6kV protects the fixture from voltage spikes and current surges.

► **NSF CERTIFIED FOOD GRADE** - Certified by the National Sanitation Foundation, ensuring it meets rigorous standards for safety and sanitation in food service and processing facilities that require elevated levels of cleanliness.

► **COLOR AND POWER SELECTABLE** - You can choose either a 3500K neutral white, 4000K cool white or 5000K daylight color temperature, and change the power with a simple switch.

► **IP69K** - Rating provides protection against ingress of dust and high temperature, high pressure water.

► **ADVANTAGES** - With calculated lifespan up to 167 000 hours, these fixtures are made to last decades under normal operation! ASD provides a 5-year limited warranty along with UL and DLC Premium certifications to guarantee top quality products and safety!



## PRODUCT PRESENTATION:

| Model          | Power         | Sensor base | Voltage  | Dimming | Lumens    | CCT                 | Finish | Dimensions                   | Pre-Installed | Certification            |
|----------------|---------------|-------------|----------|---------|-----------|---------------------|--------|------------------------------|---------------|--------------------------|
| ASD-WFS-ST-160 | 100/130/160 W | 3-pin       | 120-277V | 0-10V   | 26,246 lm | 3,500/4,000/5,000 K | White  | 16-13/16" x 12-3/8" x 3-7/8" | Cord 10 ft    | UL(E473804), DLC Premium |
| ASD-WFS-ST-240 | 180/210/240 W | 3-pin       | 120-277V | 0-10V   | 39,987 lm | 3,500/4,000/5,000 K | White  | 24-1/8" x 12-3/8" x 3-7/8"   | Cord 10 ft    | UL(E473804), DLC Premium |

For detailed luminous flux information please refer to Annex 1, page 2.

## ORDERING INFORMATION

| Model          | Product dimensions           | Weight            | Pcs. per carton | Carton size             | Carton weight | UPC         |
|----------------|------------------------------|-------------------|-----------------|-------------------------|---------------|-------------|
| ASD-WFS-ST-160 | 16-13/16" x 12-3/8" x 3-7/8" | 9.1 lbs (4.1 kg)  | 1               | 19.80" x 15.67" x 6.50" | 11.6 lbs      | 81019020227 |
| ASD-WFS-ST-240 | 24-1/8" x 12-3/8" x 3-7/8"   | 12.5 lbs (5.7 kg) | 1               | 27.13" x 15.67" x 6.50" | 16.4 lbs      | 81019020228 |

## ACCESSORIES:

| Model         | Product dimensions         | Pcs. in middle box | Middle box size     | Middle box weight | Pcs. per carton | Carton size         | Carton weight | UPC          | GTIN 14 in middle box | GTIN 14 in carton |
|---------------|----------------------------|--------------------|---------------------|-------------------|-----------------|---------------------|---------------|--------------|-----------------------|-------------------|
| ASD-09MW-WH   | 2-1/8" x 2-1/8" x 1-5/16"  | 10                 | 5.5" x 2.6" x 11.4" | 1.2 lbs           | 120             | 17.3" x 11.8" x 11" | 12.1 lbs      | 810128113700 | 20810128113704        | 30810128113701    |
| ASD-09IR-WH   | 2-1/8" x 2-1/8" x 1-11/16" | 10                 | 5.5" x 2.6" x 11.4" | 1.2 lbs           | 120             | 17.3" x 11.8" x 11" | 12.1 lbs      | 810128113694 | 20810128113698        | 30810128113695    |
| ASD-09IR50-WH | 2-1/8" x 2-1/8" x 1-11/16" | 10                 | 5.5" x 2.6" x 11.4" | 0.9 lbs           | 120             | 17.3" x 11.8" x 11" | 10.7 lbs      | 810128116794 | 10810128116791        | 20810128116798    |

For most up-to-date spec sheets please refer to [asd-lighting.com](http://asd-lighting.com)

**ASD LIGHTING CORP**

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### TECHNICAL PARAMETERS:

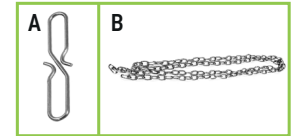
| Model          | Max input current | Inrush current | Work environment | Operating temperature          | Power factor | Beam Angle | Surge protection | Housing  | Lens | CRI  |
|----------------|-------------------|----------------|------------------|--------------------------------|--------------|------------|------------------|----------|------|------|
| ASD-WFS-ST-160 | 1.63 A            | 80 A           | Wet location     | -40°F to 122°F (-40°C to 50°C) | > 0.9        | 90°        | 6 kV             | Aluminum | PC   | > 80 |
| ASD-WFS-ST-240 | 1.27 A            | 80 A           | Wet location     | -40°F to 122°F (-40°C to 50°C) | > 0.9        | 90°        | 6 kV             | Aluminum | PC   | > 80 |

### DIMMING COMPATIBLE CONTROLS:

| Brand  | Lutron     | Leviton   |
|--------|------------|-----------|
| Models | DVSTV-453P | IP710-LFZ |

### PACKAGE CONTENTS:

| Description                     | Quantity |
|---------------------------------|----------|
| LED Linear High Bay with Q-Base | 1        |
| Suspending hook (A)             | 4        |
| Hanging chain (B)               | 2        |
| Box                             | 1        |



### ACCESSORY COMPATIBILITY LIST:

| Accessories    |                                       |                                                 |
|----------------|---------------------------------------|-------------------------------------------------|
| Models         | Microwave motion sensor 3pin ASD-09MW | Infrared motion sensor 3pin ASD-09IR ASD-09IR50 |
| ASD-WFS-ST-160 | •                                     | •                                               |
| ASD-WFS-ST-240 | •                                     | •                                               |

### ACCESSORIES (sold separately):

**Microwave motion sensor 3pin**  
ASD-09MW



**Remote control for motion sensor**  
ASD-06RC

**Infrared motion sensor 3pin**  
ASD-09IR



**Infrared motion sensor 3pin 50ft**  
ASD-09IR50



## ANNEX 1

| Model          | Watts | 3,500 K   | 4,000 K   | 5,000 K   |
|----------------|-------|-----------|-----------|-----------|
| ASD-WFS-ST-160 | 100W  | 16,862 lm | 17,423 lm | 17,394 lm |
|                | 130W  | 21,130 lm | 21,975 lm | 21,566 lm |
|                | 160W  | 25,110 lm | 26,246 lm | 25,574 lm |
| ASD-WFS-ST-240 | 180W  | 29,682 lm | 30,945 lm | 30,539 lm |
|                | 210W  | 33,836 lm | 35,331 lm | 34,536 lm |
|                | 240W  | 37,877 lm | 39,987 lm | 38,423 lm |

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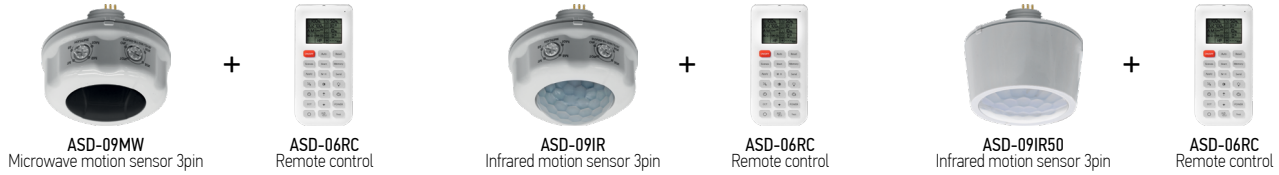




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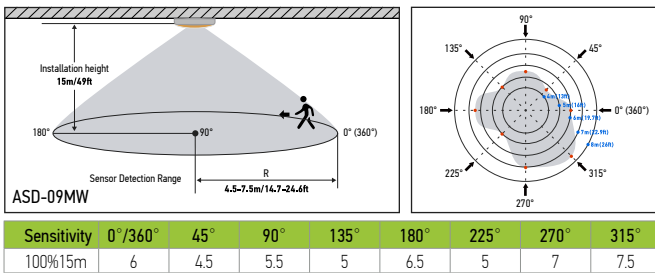
## MOTION SENSOR INFORMATION



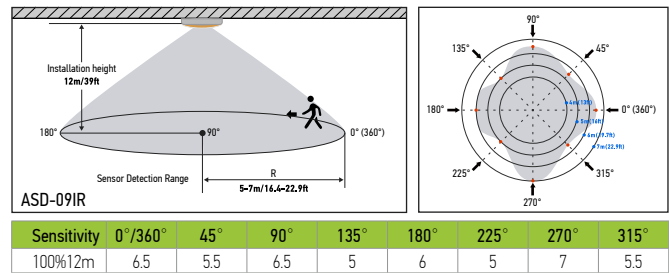
| Specifications        | Models: ASD-09MW                                                                                                                                                                                   | Models: ASD-09IR | Models: ASD-09IR50 | Default setting |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|-----------------|
| Detection area        | 25 %/50 %/75 %/100 %                                                                                                                                                                               |                  |                    | 100 %           |
| Hold time             | Remote control: 5 s/30 s/1 min/3 min/5 min/10 min/20 min/30 min<br>Built-in switch: 5 s/1 min/5 min/10 min                                                                                         |                  |                    | 10 min          |
| Daylight threshold    | 2 lux (0.2 fc)/10 lux (0.9 fc)/30 lux (2.8 fc)/50 lux (4.7 fc)/80 lux (7.4 fc)/120 lux (11.2 fc)/200 lux (18.6 fc)/250 lux (23.2 fc)/300 lux (27.9 fc)/350 lux (32.5 fc)/400 lux (37.2 fc)/disable |                  |                    | Disable         |
| Standby period        | 0 s/10 s/30 s/1 min/5 min/10 min/30 min/60 min/+ ∞                                                                                                                                                 |                  |                    | 0 s             |
| Standby dimming level | Remote control: 10 %/20 %/30 %/50 %<br>Built-in switch: 0 %/10 %/30 %/50 %                                                                                                                         |                  |                    | 10 %            |

| Specifications      | Models: ASD-09MW                  | Models: ASD-09IR                | Models: ASD-09IR50              |
|---------------------|-----------------------------------|---------------------------------|---------------------------------|
| Operating voltage   | 10 - 15 V                         |                                 |                                 |
| Operating current   | < 30 mA                           | < 15 mA                         | < 30 mA                         |
| Mounting height     | max 49.2 ft (15 m)                | max 39.4 ft (12 m)              | max 49.2 ft (15 m)              |
| Detection radius    | 14.7 ft - 24.6 ft (4.5 m - 7.5 m) | 14.7 ft - 22.9 ft (4.5 m - 7 m) | 14.7 ft - 22.9 ft (4.5 m - 7 m) |
| Operating frequency | 5.8 GHz ± 75 MHz                  | -                               | -                               |
| Transmitting power  | < 0.3 mW                          | -                               | -                               |

### MICROWAVE MOTION SENSOR:



### INFRARED MOTION SENSOR:



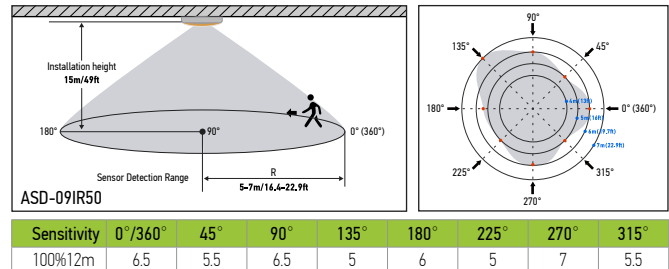
### SENSOR USAGE RECOMMENDATIONS:

#### INDOOR RECOMMENDED LOCATIONS

- Places where the temperature of the environment is well controlled.
- Places where detecting the movement of people is a high priority.

#### INDOOR NOT RECOMMENDED LOCATIONS

- Places where environment temp close to human body.
- Places where PIR sensor lens can get covered.
- Places higher than 39ft (unless you use 50ft PIR).



### REMOTE CONTROL ASD-06RC sold separately



| Button          | Remarks                                                                                                                               | Button              | Remarks                                                                                                                                | Button           | Remarks                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ON/OFF          | ON/OFF                                                                                                                                | Auto                | Auto                                                                                                                                   | Reset            | Enter "sensor mode" and perform the default settings.                                                                             |
| Scenes          | Shows current settings saved in remote.                                                                                               | Start               | Press this to begin scene setup.                                                                                                       | Memory           | Saves the scene settings.                                                                                                         |
| Apply           | Applies current scene settings to the fixture.                                                                                        | M H                 | Adjust detection area/sensitivity levels according to real installation situations, higher or lower.                                   | Send             | Memorize and send out the previous setting of individual parameters.                                                              |
| Detection range | Also known as "sensitivity", 100 % means the highest sensitivity and longest distance. Use this button and the + - buttons to adjust. | Daylight sensor     | The preset lux level at which motion will be detected. Use this button and the + - buttons to adjust.                                  | Stand-by dimming | After hold time, the light will dim from 100 % to optional standby dimming levels. Use this button and the + - buttons to adjust. |
| Hold time       | The period that light will stay illuminated 100 % after no motion is detected. Use this button and the + - buttons to adjust.         | Up                  | The main functional buttons to adjust the factors to desired level. Press + - button to dim light directly auto in non-detection mode. | Stand-by period  | The period after holdtime, during which the light keeps standby dimming level. Use this button and the + - buttons to adjust.     |
| CCT             | CCT selectable                                                                                                                        | Down                |                                                                                                                                        | POWER            | Adjust brightness in both ON/OFF mode & sensor mode, minimum 10%, max 100%, each time this button is pressed it changes by 5%.    |
| Reserved button | Not applicable to this product.                                                                                                       | Daylight harvesting | Daylight harvesting function enabled or disabled.                                                                                      | Test             | Press this button to test the sensor; it will temporarily change the hold time to 2s. This setting cannot be saved.               |

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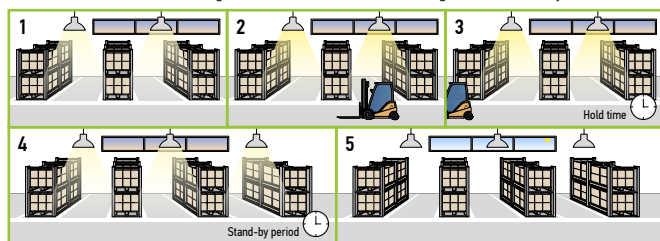


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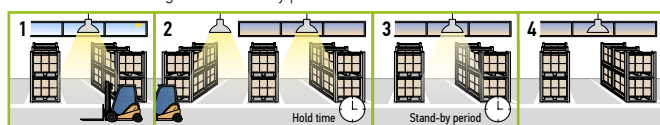
### WITH DUSK/DAWN FUNCTION:

1. With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or presence.
2. When sensor detects motion or presence it will bring the light level up to 100 %.
3. After motion is no longer detected, fixture remains at 100 % for hold time.
4. After the preset hold time period, it will dim to the standby dimming level and maintain it indefinitely.
5. With sufficient ambient brightness, sensor will turn OFF light automatically.



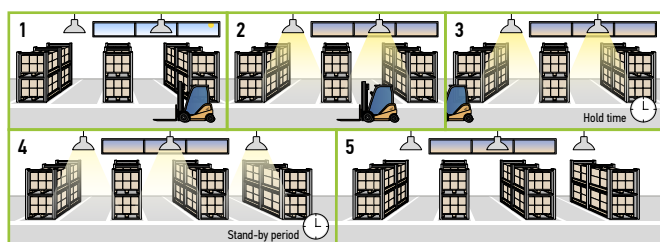
### WITH DAYLIGHT DISABLED:

1. Sensor turns ON light when motion is detected.
2. Light will stay on after detecting motion for the desired hold time.
3. Sensor dims light to standby dimming level after hold time if there is still no motion.
4. Sensor turns OFF light after standby period.



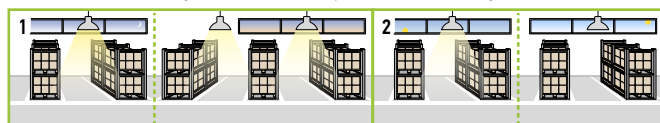
### WITH DAYLIGHT THRESHOLD:

1. With sufficient daylight, the light remains OFF even after motion is detected.
2. With insufficient daylight, the sensor turns light ON when motion is detected.
3. After there's no motion detected, the sensor keeps light ON 100 % for holdtime.
4. After holdtime, sensor dims light to standby dimming level for standby period. If the standby period has been set as 0s, sensor turns light OFF automatically after holdtime.
5. The sensor turns OFF light automatically after the standby period when there's no motion detected.



### DAYLIGHT HARVESTING:

1. When the ambient brightness is lower than the preset lux level, the sensor will automatically turn on the light and adjust the dimming according to changes in ambient brightness. As it gets darker outside, the fixtures will brighten, and as it gets brighter outside, the fixtures will dim.
2. When the ambient brightness exceeds the preset lux level, the light will turn OFF.

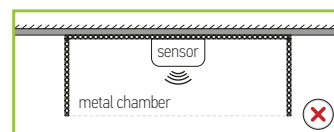
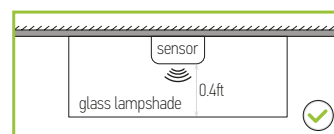
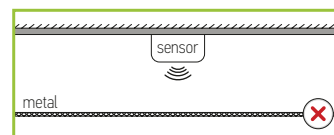


### MICROWAVE MOTION SENSOR:

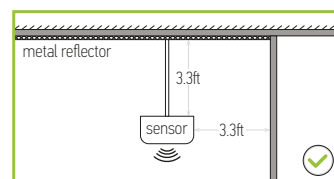
To avoid blocking the microwave emission, the microwave sensor can not be covered with metal materials, be sprayed with a coating of metal components, or have attached metal material or stickers etc.

The distance between the antenna and the glass (dielectric material) should be no less than 0.4 ft when the sensor is within the glass lampshade. Otherwise, the microwave motion sensor will not penetrate the glass easily.

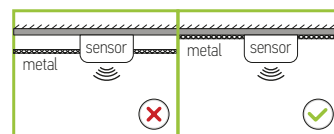
Avoid placing the sensor inside a metal chamber, this may cause a mis-trigger.



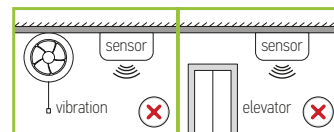
The sensor should not be placed in a small confined space. To avoid increasing the sensor detection range or abnormal operation, the sensor should be kept away from large areas of metal and glass reflectors (separation distance at least 3.3 ft). Reduce the detection area setting.



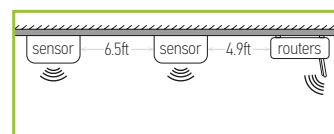
To avoid affecting the microwave signal transmission, the microwave antenna should be higher than the surrounding metal surface.



Any vibration or movement may trigger the sensor. Ensure the sensor is far from any constant movement.

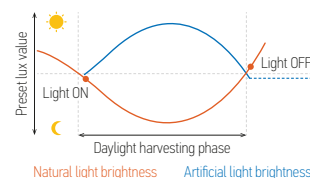


At least 2 m/6.5 ft distance between microwave sensors; 1.5 m/4.9 ft between the sensor and other wireless devices such as routers to avoid possible radio interference.



### DAYLIGHT HARVESTING SETTING:

1. Adjust "daylight" value higher than 50lux.
2. Preset "standby period" 0S.
3. Press "daylight harvesting" button on remote control to activate.



For most up-to-date spec sheets please refer to [asd-lighting.com](http://asd-lighting.com)



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WFS-ST series

## INSTALLATION GUIDE

### IMPORTANT SAFETY INFORMATION:

Please read all the instructions below before installation!

- ▶ Make sure that the supply voltage corresponds to the rated product voltage.
- ▶ The product must be installed by a qualified electrician in accordance with the National Electrical Code and corresponding local codes.
- ▶ If the product is damaged, do not use it.

### ⚠ WARNING

**Risk of personal injury** – read and follow all warnings and installation instructions. Keep or give to the owner for future reference.

**Risk of cuts:** Wear gloves to prevent cuts or abrasions when removing from carton, handling, installing, and maintaining this product.

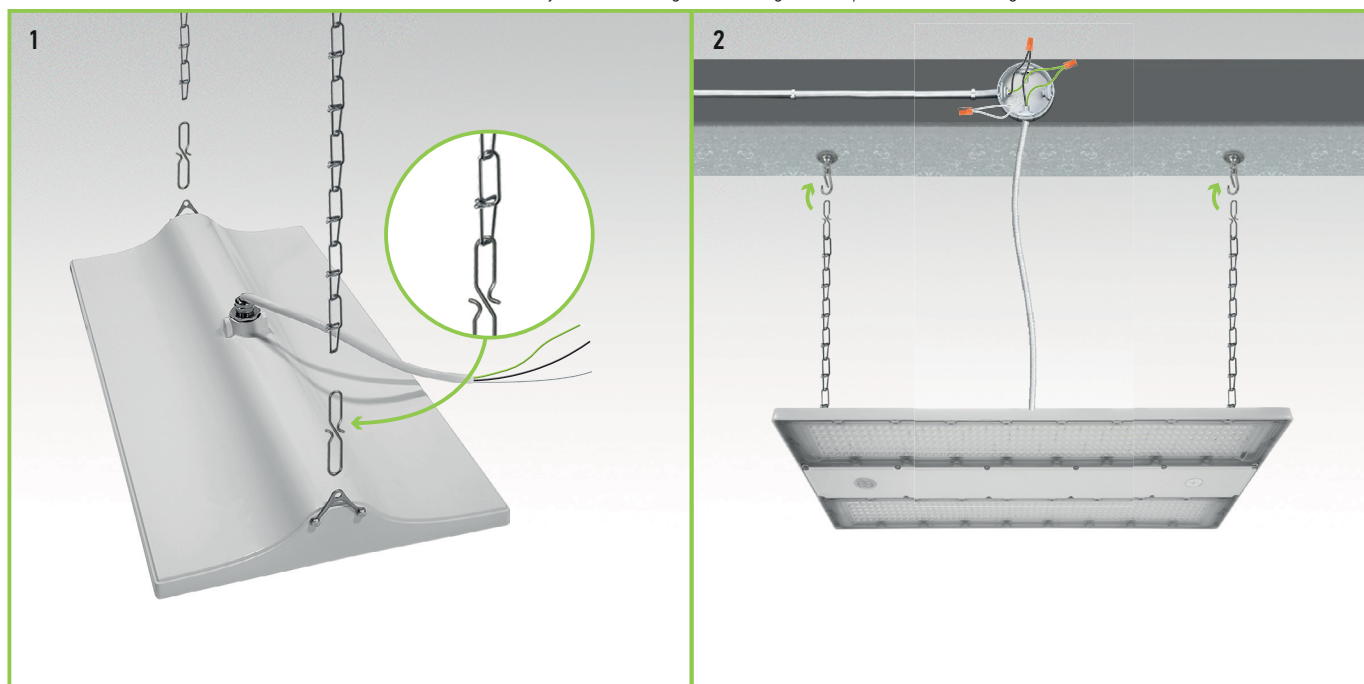
**Risk of electric shock:** This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

**Risk of Fire:** Minimum 194°F supply conductors. Consult a qualified electrician to ensure correct branch circuit conductor.

ASD® assumes no responsibility for claims arising out of improper or careless installation or handling of this product.

### INSTALLATION STEPS:

1. Insert suspending hooks in to both ends of the fixture. Secure chain to ceiling, beam or other mounting surface.
2. Connect the wires: Black to Black, White to White, Green to Green. If you are not using the dimming wires cap them off but not together.



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