



LED LINEAR HIGH BAY WITH Q-BASE

► **DESIGN** - LED LINEAR HIGH BAY WITH Q-BASE is extremely efficient with up to 170lm/W output. It has a built-in motion sensor base, allowing you to install the microwave motion or PIR sensor. Die-cast aluminum housing with excellent heat dissipation along with an anti-glare PC lens provide many years of use. It is designed to operate on 120-277V or 277-480V circuits with a 0-10V dimmable driver.

► **SURGE PROTECTION** - 6kV protects the fixture from voltage spikes and current surges.

► **COLOR AND POWER SELECTABLE** - You can choose either a 3,500K neutral white, 4,000K cool white or 5,000K daylight color temperature, and change the power with a simple switch.

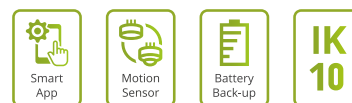
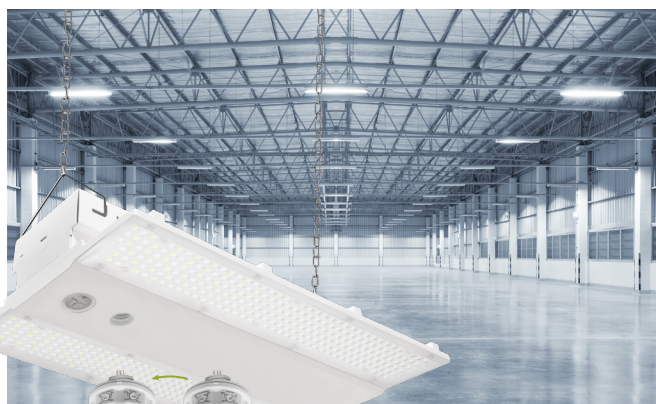
► **BATTERY BACK-UP** - The built-in battery back-up provides 90 minutes of power in case of emergency.

► **INSTALLATION** - This fixture has three different mounting options: suspended, surface, and pendant.

► **APPLICATION** - Perfect commercial or industrial solution for warehouses, supermarkets, retail stores, gyms, and many other applications. This fixture has IK10 level impact protection and is also Damp Locations rated.

► **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!

| | |
|----------------|--|
| Catalog number | |
| Notes | |
| Type | |



| Model | Watts | Q-base | Voltage | Dimmable | Lumens | CCT | Finish | Dimensions (LxWxH) |
|----------------------|--------------|--------|-----------|----------|-----------|---------|--------|---------------------------------|
| WHB5B 150lm/W | | | | | | | | |
| ASD-WHB5B-100A50 | 60/80/100W | 3-pin | 120-277 V | 0-10 V | 15,386 lm | 5,000 K | White | 14-15/16" x 9-13/16" x 2-15/16" |
| ASD-WHB5B-160A50 | 100/130/160W | 3-pin | 120-277 V | 0-10 V | 24,842 lm | 5,000 K | White | 14-15/16" x 9-13/16" x 2-15/16" |
| ASD-WHB5B-220A50 | 130/160/220W | 3-pin | 120-277 V | 0-10 V | 35,342 lm | 5,000 K | White | 17-11/16" x 12-7/16" x 2-15/16" |
| ASD-WHB5B-320A50 | 160/220/320W | 3-pin | 120-277 V | 0-10 V | 50,848 lm | 5,000 K | White | 20-1/2" x 14-7/16" x 3-1/4" |
| ASD-WHB5B-500A50 | 320/400/500W | 3-pin | 120-277 V | 0-10 V | 75,905 lm | 5,000 K | White | 35-1/2" x 12-7/16" x 2-15/16" |

| Model | Watts | Q-base | Voltage | Dimmable | Lumens | CCT | Finish | Dimensions (LxWxH) |
|---|--------------|--------|-----------|----------|-----------------|----------------------------|--------|---------------------------------|
| WHB5B-PRO 170lm/W | | | | | | | | |
| ASD-WHB5B-PRO-100 | 60/80/100W | 3-pin | 120-277 V | 0-10 V | up to 16,366 lm | 3CCT (3,500/4,000/5,000 K) | White | 14-15/16" x 9-13/16" x 2-15/16" |
| ASD-WHB5B-PRO-160 | 100/130/160W | 3-pin | 120-277 V | 0-10 V | up to 25,521 lm | 3CCT (3,500/4,000/5,000 K) | White | 14-15/16" x 9-13/16" x 2-15/16" |
| ASD-WHB5B-PRO-220 | 130/160/220W | 3-pin | 120-277 V | 0-10 V | up to 36,274 lm | 3CCT (3,500/4,000/5,000 K) | White | 17-11/16" x 12-7/16" x 2-15/16" |
| ASD-WHB5B-PRO-320 | 160/220/320W | 3-pin | 120-277 V | 0-10 V | up to 52,194 lm | 3CCT (3,500/4,000/5,000 K) | White | 20-1/2" x 14-7/16" x 3-1/4" |
| ASD-WHB5B-PRO-500 | 320/400/500W | 3-pin | 120-277 V | 0-10 V | up to 76,668 lm | 3CCT (3,500/4,000/5,000 K) | White | 35-1/2" x 12-7/16" x 2-15/16" |
| WHB5BHV-PRO HIGH VOLTAGE 170lm/W | | | | | | | | |
| ASD-WHB5BHV-PRO-220 | 130/160/220W | 3-pin | 277-480 V | 0-10 V | up to 36,031 lm | 3CCT (3,500/4,000/5,000 K) | White | 17-11/16" x 12-7/16" x 2-15/16" |
| ASD-WHB5BHV-PRO-320 | 160/220/320W | 3-pin | 277-480 V | 0-10 V | up to 51,322 lm | 3CCT (3,500/4,000/5,000 K) | White | 20-1/2" x 14-7/16" x 3-1/4" |

| WHB5B-PRO-EM WITH BATTERY BACK-UP 170lm/W | | | | | | | | |
|--|--------------|-------|-----------|--------|-----------------|----------------------------|-------|---------------------------------|
| ASD-WHB5B-PRO-160-40EM | 100/130/160W | 3-pin | 120-277 V | 0-10 V | up to 25,522 lm | 3CCT (3,500/4,000/5,000 K) | White | 14-15/16" x 9-13/16" x 2-15/16" |
| ASD-WHB5B-PRO-220-40EM | 130/160/220W | 3-pin | 120-277 V | 0-10 V | up to 36,274 lm | 3CCT (3,500/4,000/5,000 K) | White | 17-11/16" x 12-7/16" x 2-15/16" |

| SENSORS AND REMOTE | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|----------------------------|
| ASD-09MW-WH | Microwave motion sensor 3pin white | | | | | | | 2-1/8" x 2-1/8" x 1-5/16" |
| ASD-09MW-BK | Microwave motion sensor 3pin black | | | | | | | 2-1/8" x 2-1/8" x 1-5/16" |
| ASD-09IR-WH | Infrared motion sensor 3pin white | | | | | | | 2-1/8" x 2-1/8" x 1-11/16" |
| ASD-09IR-BK | Infrared motion sensor 3pin black | | | | | | | 2-1/8" x 2-1/8" x 1-11/16" |
| ASD-09IR50-WH | Infrared motion sensor 3pin 50ft white | | | | | | | 2-1/8" x 2-1/8" x 1-11/16" |
| ASD-06RC | Remote control for motion sensor | | | | | | | 5-11/16" x 1-3/4" x 13/16" |
| ASD-09MW-NLS-WH | Microwave motion sensor smart 3pin white | | | | | | | 2-1/8" x 2-1/8" x 1-3/8" |
| ASD-09IR-NLS-WH | Infrared motion sensor smart 3pin white | | | | | | | 2-1/8" x 2-1/8" x 1-11/16" |
| ASD-06RC-NLS | Remote control for motion sensor smart | | | | | | | 5-11/16" x 1-3/4" x 13/16" |

For detailed luminous flux information please refer to Annex 1, page 3.

For most up-to-date spec sheets please refer to asd-lighting.com



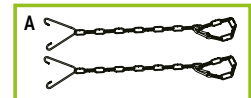
LED LINEAR HIGH BAY WITH Q-BASE

PRODUCT SPECIFICATIONS:

| Construction & Materials | | | | | | |
|--|---|-------------------|----------------------------|-------------------|------------------------|------------------|
| Housing | Aluminum | | | | | |
| Lens | PC | | | | | |
| Finish | White | | | | | |
| Weight | ASD-WHB5B-100A50 | 4.1 lbs (1.9 kg) | ASD-WHB5B-PRO-100 | 4.1 lbs (1.9 kg) | ASD-WHB5BHV-PRO-220 | 7 lbs (3.2 kg) |
| | ASD-WHB5B-160A50 | 5 lbs (2.3 kg) | ASD-WHB5B-PRO-160 | 5 lbs (2.3 kg) | ASD-WHB5BHV-PRO-320 | 9.2 lbs (4.2 kg) |
| | ASD-WHB5B-220A50 | 7 lbs (3.2 kg) | ASD-WHB5B-PRO-220 | 7 lbs (3.2 kg) | ASD-WHB5B-PRO-160-40EM | 7.9 lbs (3.6 kg) |
| | ASD-WHB5B-320A50 | 9.2 lbs (4.2 kg) | ASD-WHB5B-PRO-320 | 9.2 lbs (4.2 kg) | ASD-WHB5B-PRO-220-40EM | 9.9 lbs (4.5 kg) |
| | ASD-WHB5B-500A50 | 14.2 lbs (6.4 kg) | ASD-WHB5B-PRO-500 | 14.2 lbs (6.4 kg) | | |
| Environmental system | | | | | | |
| Work environment | Suitable for Damp Locations | | | | | |
| Operating temperature | -40°F to 122°F (-40°C to 50°C) | | | | | |
| L-70 Life | R > 102,000 hrs; C > 167,000 hrs | | | | | |
| Optical system | | | | | | |
| Color temperature | 5,000 K | | | | | |
| | 3CCT switch (3,500/4,000/5,000 K), 5,000 K by default | | | | | |
| CRI | > 80 | | | | | |
| Electrical system | | | | | | |
| Input voltage | Regular voltage: 120-277 V | | | | | |
| | High voltage: 277-480 V | | | | | |
| Max input current | ASD-WHB5B-100A50 | 1.3 A | ASD-WHB5B-PRO-100 | 1.3 A | ASD-WHB5BHV-PRO-220 | 0.92 A |
| | ASD-WHB5B-160A50 | 2 A | ASD-WHB5B-PRO-160 | 2 A | ASD-WHB5BHV-PRO-320 | 1.4 A |
| | ASD-WHB5B-220A50 | 2.6 A | ASD-WHB5B-PRO-220 | 2.6 A | ASD-WHB5B-PRO-160-40EM | 2 A |
| | ASD-WHB5B-320A50 | 4 A | ASD-WHB5B-PRO-320 | 4 A | ASD-WHB5B-PRO-220-40EM | 2.6 A |
| | ASD-WHB5B-500A50 | 6 A | ASD-WHB5B-PRO-500 | 6 A | | |
| Inrush current (Action time) | ASD-WHB5B-100A50 | 80 A (0.35 S) | ASD-WHB5B-PRO-100 | 80 A (0.35 S) | ASD-WHB5BHV-PRO-220 | 80 A (0.75 S) |
| | ASD-WHB5B-160A50 | | ASD-WHB5B-PRO-160 | | ASD-WHB5BHV-PRO-320 | 130 A (0.75 S) |
| | ASD-WHB5B-220A50 | 100 A (0.35 S) | ASD-WHB5B-PRO-220 | 100 A (0.35 S) | ASD-WHB5B-PRO-160-40EM | 80 A (0.35 S) |
| | ASD-WHB5B-320A50 | | ASD-WHB5B-PRO-320 | | ASD-WHB5B-PRO-220-40EM | |
| ASD-WHB5B-500A50 | 80 A (0.35 S) | ASD-WHB5B-PRO-500 | 80 A (0.35 S) | | | |
| Off state power | 0W | | | | | |
| Power consumption | ASD-WHB5B-100A50 | 60/80/100W | ASD-WHB5B-PRO-100 | 60/80/100W | ASD-WHB5BHV-PRO-220 | 130/160/220W |
| | ASD-WHB5B-160A50 | 100/130/160W | ASD-WHB5B-PRO-160 | 100/130/160W | ASD-WHB5BHV-PRO-320 | 160/220/320W |
| | ASD-WHB5B-220A50 | 130/160/220W | ASD-WHB5B-PRO-220 | 130/160/220W | ASD-WHB5B-PRO-160-40EM | 100/130/160W |
| | ASD-WHB5B-320A50 | 160/220/320W | ASD-WHB5B-PRO-320 | 160/220/320W | ASD-WHB5B-PRO-220-40EM | 130/160/220W |
| | ASD-WHB5B-500A50 | 320/400/500W | ASD-WHB5B-PRO-500 | 320/400/500W | | |
| Power factor | > 0.9 | | | | | |
| Output voltage | 180-260 V | | | | | |
| Max output current | ASD-WHB5B-100A50 | 0.4 A | ASD-WHB5B-PRO-100 | 0.4 A | ASD-WHB5BHV-PRO-220 | 0.85 A |
| | ASD-WHB5B-160A50 | 0.64 A | ASD-WHB5B-PRO-160 | 0.64 A | ASD-WHB5BHV-PRO-320 | 1.29 A |
| | ASD-WHB5B-220A50 | 0.89 A | ASD-WHB5B-PRO-220 | 0.89 A | ASD-WHB5B-PRO-160-40EM | 0.61 A |
| | ASD-WHB5B-320A50 | 1.31 A | ASD-WHB5B-PRO-320 | 1.31 A | ASD-WHB5B-PRO-220-40EM | 0.85 A |
| | ASD-WHB5B-500A50 | 0.97 A | ASD-WHB5B-PRO-500 | 0.97 A | | |
| Surge protection DM/CM | 6 kV / 6 kV | | for EM models: 1 kV / 2 kV | | | |
| Dimming compatible controls | | | | | | |
| Brand | Lutron | | Leviton | | | |
| Models | DVSTV-453P | | IP710-LFZ | | | |
| Regular and voluntary certifications | | | | | | |
| 5-year limited warranty | | | | | | |
| DesignLights Consortium (DLC) listed (Classification: Premium) | | | | | | |
| Main: Indoor luminaires; General application: High-bay; | | | | | | |
| Primary use: High-bay luminaires for commercial and industrial buildings | | | | | | |
| UL certified E473804 | | | | | | |

PACKAGE CONTENTS:

| Description | Q-ty |
|---------------------------------------|------|
| LED Linear High Bay with Q-Base | 1 |
| Hanging kit: V hook, chain 3.2 ft (A) | 1 |
| Box | 1 |



For most up-to-date spec sheets please refer to asd-lighting.com



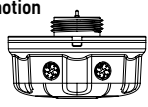
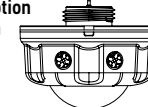
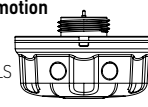
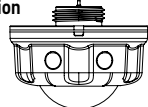
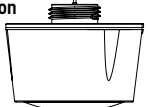

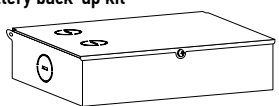
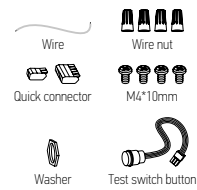
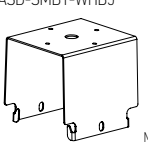

LED LINEAR HIGH BAY WITH Q-BASE

ANNEX 1

| Model | Watts | 5,000 K |
|------------------|-------|-----------|
| ASD-WHB5B-100A50 | 60W | 10,148 lm |
| | 80W | 12,805 lm |
| | 100W | 15,386 lm |
| ASD-WHB5B-160A50 | 100W | 16,882 lm |
| | 130W | 20,567 lm |
| | 160W | 24,842 lm |
| ASD-WHB5B-220A50 | 130W | 22,574 lm |
| | 160W | 27,067 lm |
| | 220W | 35,342 lm |
| ASD-WHB5B-320A50 | 160W | 29,052 lm |
| | 220W | 38,111 lm |
| | 320W | 50,848 lm |
| ASD-WHB5B-500A50 | 320W | 53,174 lm |
| | 400W | 63,909 lm |
| | 500W | 75,905 lm |

| Model | Watts | 3,500 K | 4,000 K | 5,000 K |
|---|-------|-----------|-----------|-----------|
| ASD-WHB5B-PRO-100 | 60W | 10,457 lm | 10,830 lm | 10,761 lm |
| | 80W | 13,308 lm | 13,888 lm | 13,600 lm |
| | 100W | 16,032 lm | 16,848 lm | 16,366 lm |
| ASD-WHB5B-PRO-160 ASD-WHB5B-PRO-160-40EM | 100W | 17,016 lm | 18,170 lm | 18,099 lm |
| | 130W | 20,726 lm | 22,301 lm | 21,816 lm |
| | 160W | 24,191 lm | 26,567 lm | 25,521 lm |
| ASD-WHB5B-PRO-220 ASD-WHB5B-PRO-220-40EM | 130W | 23,349 lm | 24,359 lm | 24,320 lm |
| | 160W | 27,722 lm | 29,104 lm | 28,470 lm |
| | 220W | 35,182 lm | 37,871 lm | 36,274 lm |
| ASD-WHB5B-PRO-320 | 160W | 28,811 lm | 29,905 lm | 29,927 lm |
| | 220W | 37,232 lm | 39,588 lm | 39,485 lm |
| | 320W | 49,300 lm | 53,065 lm | 52,194 lm |
| ASD-WHB5B-PRO-500 | 320W | 52,256 lm | 55,249 lm | 55,036 lm |
| | 400W | 63,160 lm | 66,623 lm | 65,166 lm |
| | 500W | 72,783 lm | 79,787 lm | 76,668 lm |
| ASD-WHB5B-HV-PRO-220 | 130W | 22,140 lm | 23,343 lm | 23,458 lm |
| | 160W | 26,627 lm | 28,271 lm | 27,963 lm |
| | 220W | 34,160 lm | 37,158 lm | 36,031 lm |
| ASD-WHB5B-HV-PRO-320 | 160W | 28,106 lm | 29,289 lm | 29,516 lm |
| | 220W | 36,810 lm | 38,731 lm | 38,197 lm |
| | 320W | 49,029 lm | 53,090 lm | 51,322 lm |

ACCESSORIES (sold separately):

| | | | | |
|--|--|--|--|--|
| Microwave motion sensor 3pin ASD-09MW  | Infrared motion sensor 3pin ASD-09IR  | Microwave motion sensor smart 3pin ASD-09MW-NLS  | Infrared motion sensor smart 3pin ASD-09IR-NLS  | Infrared motion sensor 3pin 50ft ASD-09IR50  |
| Remote control for motion sensor ASD-06RC  | Battery back-up kit  20W ASD-EMK20W-WHB5B 30W ASD-EMK30W-WHB5A  | Surface mounting bracket ASD-SMB1-WHB5  M4*6mm | Pendant mount bracket ASD-PMB1-WHB5  Tube M4*6mm | |

ACCESSORY COMPATIBILITY LIST:

| Models | Accessories | Microwave motion sensor 3pin | Infrared motion sensor 3pin | Microwave motion sensor smart 3pin | Infrared motion sensor smart 3pin | Battery back-up kit 20W | Battery back-up kit 30W | Surface mount bracket | Pendant mounting bracket |
|------------------|-------------|------------------------------|-----------------------------|------------------------------------|-----------------------------------|-------------------------|-------------------------|-----------------------|--------------------------|
| | | ASD-09MW | ASD-09IR ASD-09IR50 | ASD-09MW-NLS-WH | ASD-09IR-NLS-WH | ASD-EMK20W-WHB5B | ASD-EMK30W-WHB5A | ASD-SMB1-WHB5 | ASD-PMB1-WHB5 |
| ASD-WHB5B | 100W | • | • | • | • | • | • | • | • |
| | 160W | • | • | • | • | • | • | • | • |
| | 220W | • | • | • | • | • | • | • | • |
| | 320W | • | • | • | • | • | • | • | • |
| | 500W | • | • | • | • | • | • | • | • |
| ASD-WHB5B-PRO | 100W | • | • | • | • | • | • | • | • |
| | 160W | • | • | • | • | • | • | • | • |
| | 220W | • | • | • | • | • | • | • | • |
| | 320W | • | • | • | • | • | • | • | • |
| | 500W | • | • | • | • | • | • | • | • |
| ASD-WHB5B-HV-PRO | 220W | • | • | • | • | • | • | • | • |
| | 320W | • | • | • | • | • | • | • | • |
| ASD-WHB5B-PRO-EM | 160W | • | • | • | • | • | • | • | • |
| | 220W | • | • | • | • | • | • | • | • |

For most up-to-date spec sheets please refer to asd-lighting.com



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MOTION SENSOR INFORMATION

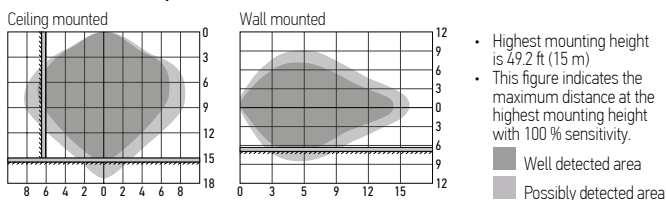
REMOTE CONTROL **ASD-06RC** **ASD-06RC-NLS** sold separately:



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



ASD-09MW, ASD-09MW-NLS:



User notes:

- Microwaves can penetrate walls or glass thinner than 0.8" but will be impaired if thicker than 0.8".
- The driver voltage shall be stable and float within 10 %.
- Detection area will be affected by speed of motion, mounting height and movement volume.
- Conduct testing with adequate ambient lighting for best results.
- Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either.
- The first time powering ON the sensor, light will be ON 100% for about 10S then dims to standby level or OFF.

Installation precautions:

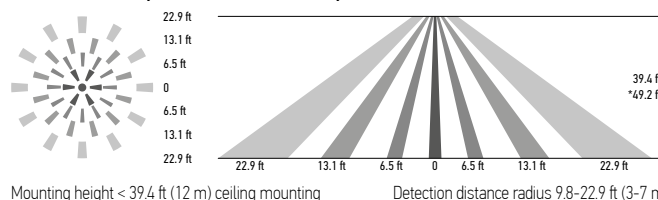
- Designed for ceiling mount installation. If installing on a side wall, adjust the sensitivity settings accordingly, as it will become more sensitive.
- Make sure the microwave module is completely exposed.
- The detection surface of the sensor module should be installed facing the detection area.

Application environment:

- Suitable for indoor application, partial/completely outdoor environment conditions might trigger the sensor.
- Shall be mounted securely, to avoid any false triggers caused by movement of the fixture itself.
- Keep the sensor module away from AC input and DC output to avoid high/low frequency signal interference.

| Specifications | Models: ASD-09MW, ASD-09MW-NLS | Models: ASD-09IR, ASD-09IR-NLS | Models: ASD-09IR50 |
|-----------------------|--|---|--------------------|
| Operating voltage | 10-15 V | | |
| Operating current | < 30 mA | < 15 mA | < 30 mA |
| Detection area | 25 %/50 %/75 %/100 % | | |
| Hold time | Remote control: 5 s/30 s/1 min/3 min/5 min/10 min/20 min/30 min | Built-in switch: 5 s/1 min/5 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 | | |
| Standby period | 0 s/10 s/30 s/1 min/5 min/10 min/30 min/60 min/+ ∞ | | |
| Standby dimming level | Remote control: 10 %/20 %/30 %/50 % | Built-in switch: 0 %/10 %/30 %/50 % | |
| Mounting height | max 49.2 ft (15 m) | ≤ 39.4 ft (12 m) | max 49.2 ft (15 m) |
| Detection range | ≥ 9 ft (3 m) | | |
| Operating frequency | 5.8 GHz ± 75 GHz | - | - |
| Transmitting power | < 0.3 mW | - | - |

ASD-09IR, ASD-09IR50, ASD-09IR-NLS:



User notes:

- The driver voltage shall be stable and float within 10%.
- Detection area options may not function as expected because they depend on the Fresnel lens, which physically determines their operation.
- Detection distance performance works better when moving parallel to the sensor as opposed to towards it.
- Conduct testing with adequate ambient lighting for best results.
- Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either.
- The first time powering ON the sensor, light will be ON 100% for about 45S then dims to standby level or OFF.

Installation precautions:

- PIR sensor can't be placed inside any material, fresnel lens must be completely exposed in air.
- Fresnel lens of the PIR sensor must be lower than the lighting fixture.
- Designed for ceiling mount installation. If installing on a side wall, adjust the sensitivity settings accordingly, as it will become more sensitive.

Application environment:

- Suitable for indoor application, partial/completely outdoor environment conditions might trigger the sensor.
- The PIR sensor is not suitable for environments with sudden changes in temperature or airflow.
- Not suitable environment if there's shelves between the sensor and target area.
- Shall be mounted securely, to avoid any false triggers caused by movement of the fixture itself.

DEFAULT SETTING:

| Specifications | Value |
|------------------------|---------|
| Detection area | 100 % |
| Hold time | 10 min |
| Daylight threshold | Disable |
| Stand-by period | 0 s |
| Stand-by dimming level | 10 % |

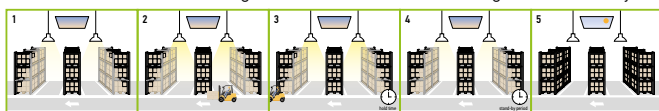
For most up-to-date spec sheets please refer to asd-lighting.com



LED LINEAR HIGH BAY WITH Q-BASE

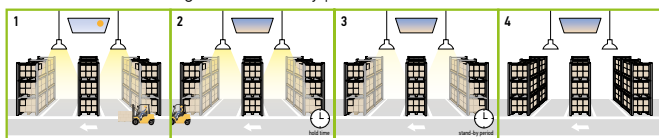
WITH DUSK/DAWN FUNCTION:

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.



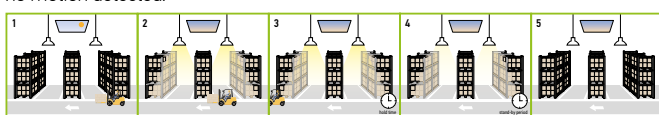
WITH DAYLIGHT DISABLED:

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.



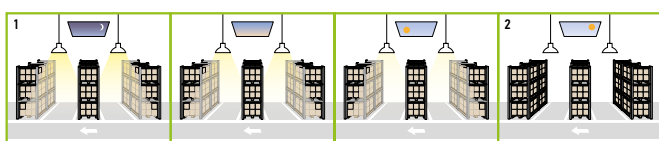
WITH DAYLIGHT THRESHOLD:

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.



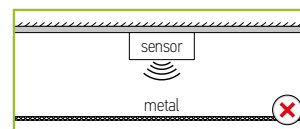
DAYLIGHT HARVESTING:

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.

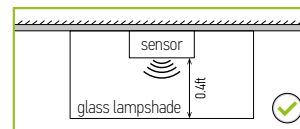


MICROWAVE MOTION SENSOR:

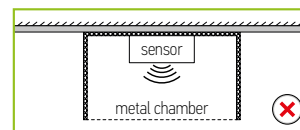
To avoid blocking the microwave emission, the microwave sensor can not be covered with metal materials, be sprayed with a coating of metal components, or have attached metal material or stickers etc.



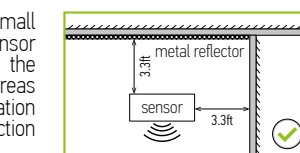
The distance between the antenna and the glass (dielectric material) should be no less than 0.4 ft when the sensor is within the glass lampshade. Otherwise, the microwave motion sensor will not penetrate the glass easily.



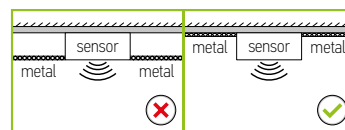
Avoid placing the sensor inside a metal chamber, this may cause a mis-trigger.



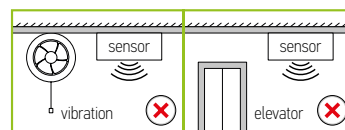
The sensor should not be placed in a small confined space. To avoid increasing the sensor detection range or abnormal operation, the sensor should be kept away from large areas of metal and glass reflectors (separation distance at least 3.3 ft). Reduce the detection area setting.



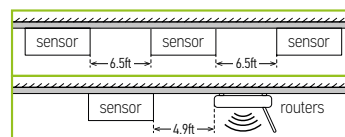
To avoid affecting the microwave signal transmission, the microwave antenna should be higher than the surrounding metal surface.



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

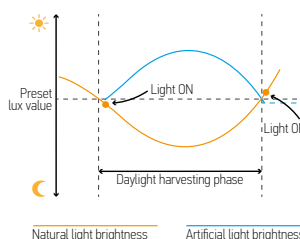


There must be at least 6.5ft between microwave sensors; There must be at least 4.9ft between the sensor and other wireless devices such as routers to avoid possible radio interference.



DAYLIGHT HARVESTING SETTING:

1. Adjust "daylight" value higher than 50lux.
2. Preset "standby period" 0S
3. Press the MW/PIR button three times until the MW/PIR icons both blink on the LCD screen to enable the daylight harvesting function.

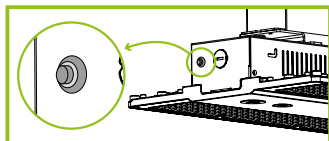








LED LINEAR HIGH BAY WITH Q-BASE

BUILT-IN BATTERY BACK-UP INFORMATION

STANDARD OPERATION DISPLAY STATUS:



| | | |
|------------------------|---|-------|
| Charging |  | Flash |
| Emergency mode |  | |
| Test failure |  | |
| Battery is running low |  | Flash |

| Specifications | ASD-WHB5B-PRO-160-40EM | ASD-WHB5B-PRO-220-40EM |
|--------------------------|--|------------------------|
| Input voltage | 100-347 V 50/60 Hz | |
| Indicator light | Illuminated test switch, indicator light | |
| Battery type | Li-ion | |
| Battery watts | 40W | |
| Lumens | 6,879 lm | 8,134 lm |
| Battery capacity | 3,200 mA * 8 | |
| Emergency mode | ≥ 90 minutes | |
| Charging time | ≥ 24 hours | |
| Emergency time | ≥ 1.5 hours | |
| Battery charging current | ≤ 500 mA | |

BACK-UP BATTERY KIT INFORMATION

ASD-EMK20W-WHB5B

ASD-EMK30W-WHB5A

sold separately:



Self-check emergency battery back-up kit offers a dependable solution for virtually every LED Linear High Bay lighting application, with options tailored for both new fixture constructions and field installation applications.

CAUTION:

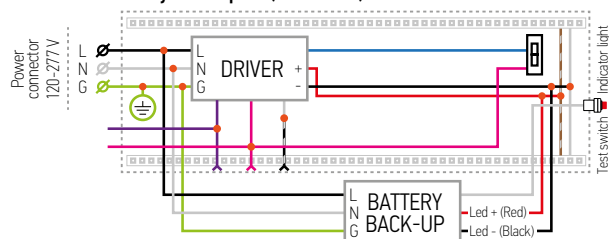
- ▶ Before performing a high-voltage insulation test, ensure the battery pack is removed and that there is no contact between the battery pack and the LED drivers.
- ▶ After testing, disconnect the battery pack unit connector before shipping and storing.
- ▶ During storage, the battery pack will need 24 hours of charging every 3 months.

Emergency operation:

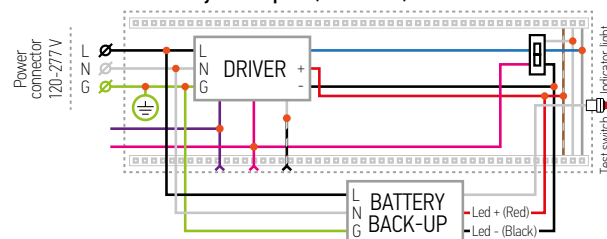
During AC operation, the red indicator light will remain on. During emergency operation, the indicator light will flash slowly (on for 2 seconds, off for 2 seconds). In the event of a failure, the indicator light will flash rapidly (on for 0.2 seconds, off for 0.2 seconds).

| Specifications | ASD-EMK20W-WHB5B | ASD-EMK30W-WHB5A |
|---------------------|---|------------------|
| Input voltage | 120-277 V 50/60 Hz | |
| Input current | 100 mA max. | |
| Input power | 7.0W max. | |
| Output voltage | 156 - 230 Vdc | |
| Output power | 20W | 30W |
| Lumens | 3,189 lm | 4,783 lm |
| Emergency time | ≥ 1.5 hours | |
| Indicator light | Illuminated test switch, red, indicator light | |
| Battery type | Li-ion | |
| Charging time | ≥ 24 hours | |
| Ambient temperature | -22°F to 122°F (-30°C to 50°C) | |
| Dimensions | 9-5/8" x 4-5/8" x 1-7/8" | |
| Warranty | 5 years | |

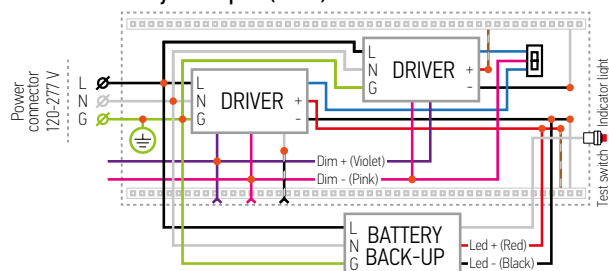
WHB5B with battery back-up kit (100-320W)



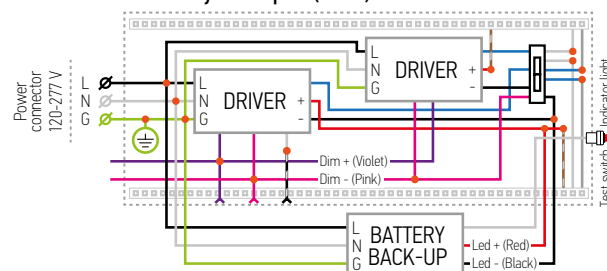
WHB5B-PRO with battery back-up kit (100-320W)



WHB5B with battery back-up kit (500W)



WHB5B-PRO with battery back-up kit (500W)



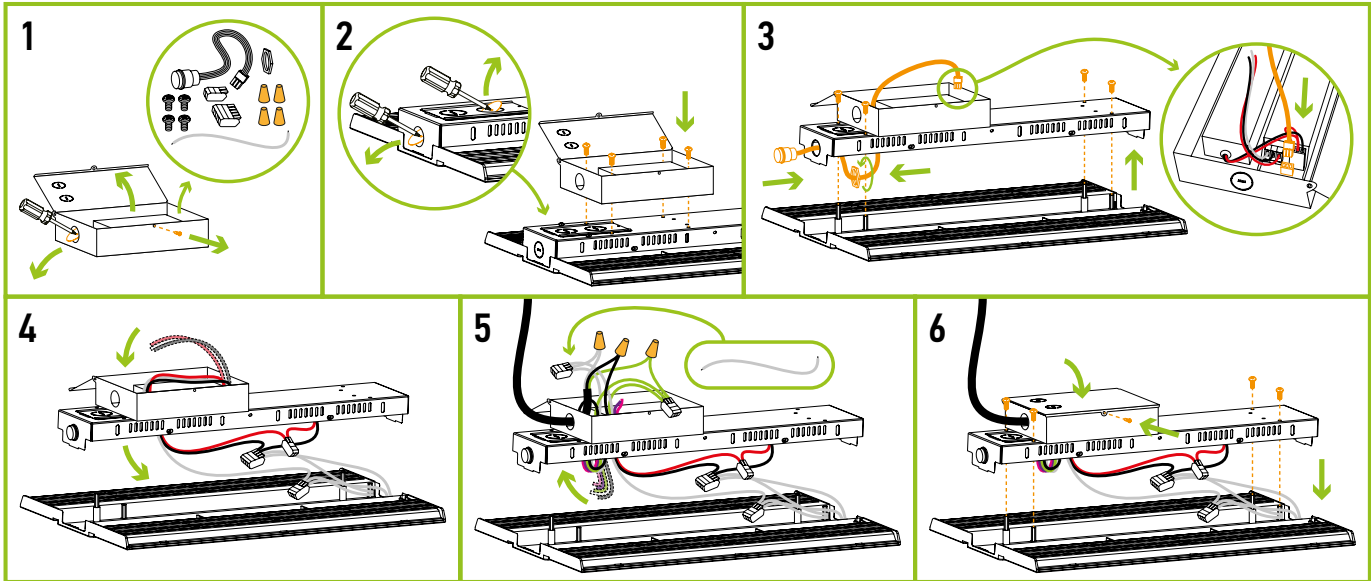
For most up-to-date spec sheets please refer to asd-lighting.com



LED LINEAR HIGH BAY WITH Q-BASE

INSTALLATION STEPS:

1. Unscrew and open Battery back-up kit.
2. Remove one knockout on the top and one on the side of the driver box. Attach the battery backup kit to the driver box of the fixture with 4 screws.
3. Unscrew 4 screws and open driver box of the fixture. Install battery back-up button into the side knockout of the fixture and secure it with washer (included). Then pull the button wire into the battery back-up kit and plug it into the battery controller.
4. Connect battery back-up kit to the fixture by:
 - a. Pulling the Red wire (DRIVER +) from battery back-up into the fixture and connecting it to the Red wire (Driver output +);
 - b. Pull the Black wire (LED- / DRIVER -) from battery back-up into the fixture and connect it with the Black wire (Driver output -), Led1 (input -) and Led2 (-) using one connector (included);
 - c. Pull the White wire (LED +) from battery back-up into the fixture and connect it with the Led1 (+) and Led2 (+) using one connector (included);
5. Pull the White (N), Black (L), Green (G), Pink (Dim-) and Violet (Dim+) wires from the fixture into the battery back-up kit and connect them with the wires of battery back-up kit and external power source: Black with Black, White with White, Green with Green, according to the wiring schematic. Use white extension wire (included) if needed. Use pink (Dim-) and violet (Dim+) dimming wires if needed to connect to the dimmer.
6. Attach fixture driver box cover with battery back-up kit to the fixture and secure it with screws.



For most up-to-date spec sheets please refer to asd-lighting.com

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LED LINEAR HIGH BAY WITH Q-BASE

INSTALLATION GUIDE

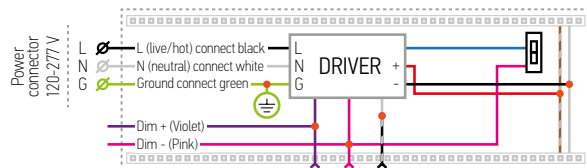
IMPORTANT SAFETY INFORMATION:

Please read all the instructions below before installation.

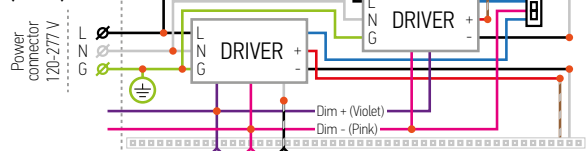
- ▶ Make sure that the supply voltage corresponds to the rated product voltage.
- ▶ The product must be installed by a qualified electrician in accordance with the National Electrical Code and corresponding local codes.
- ▶ If the product is damaged, do not use it.

ELECTRICAL SCHEMATIC DIAGRAM:

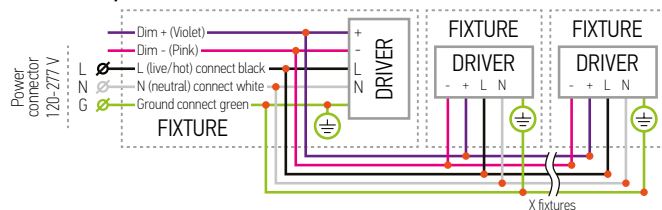
WHB5B (100-320W)



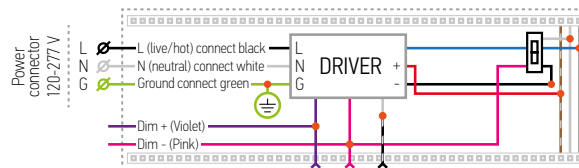
WHB5B (500W)



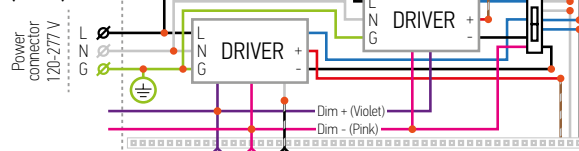
WHB5B multiple fixture connection



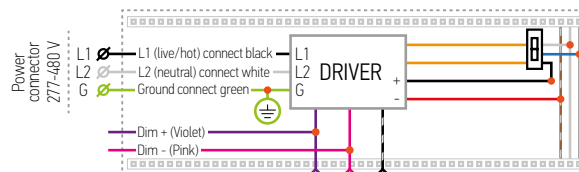
WHB5B-PRO (100-320W)



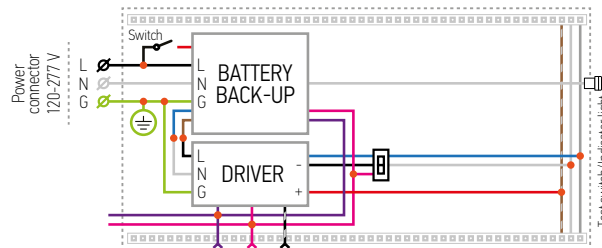
WHB5B-PRO (500W)



WHB5A-HV-PRO



WHB5B-PRO with battery back-up



⚠ 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.

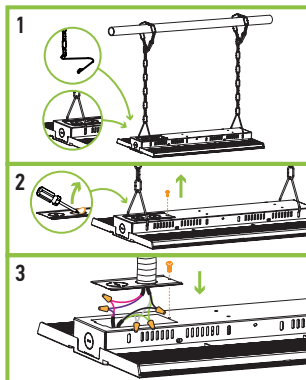
For most up-to-date spec sheets please refer to asd-lighting.com



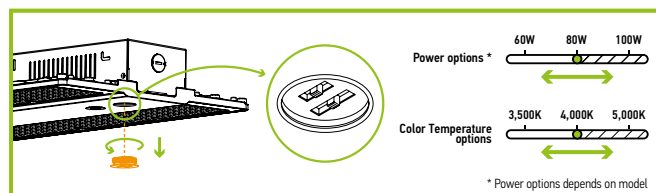
LED LINEAR HIGH BAY WITH Q-BASE

INSTALLATION STEPS:

1. Insert V-hooks into both ends of the fixture. Secure chain to ceiling, beam or other mounting surface.
2. Unscrew and open backplate, use screwdriver to open one knockout.
3. 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. Reattach knockout plate to top of the fixture and secure with screw.



POWER AND COLOR TEMPERATURE SETTINGS:

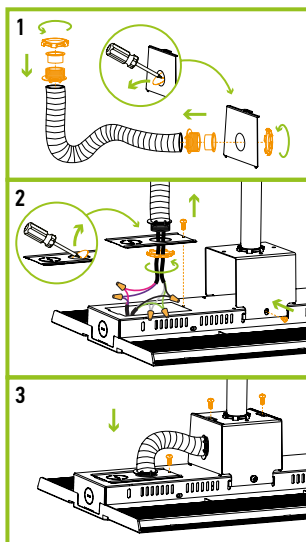


PENDANT MOUNT

ASD-PMB1-WHB5

sold separately:

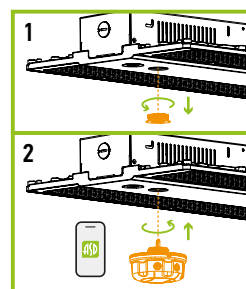
1. Assemble metal hose with connectors and attach bracket's side plate to one side. Install the bracket on 3/4" NPT pipe. Bracket does not include nuts or screws for mounting to surface.
2. Unscrew and take off fixture's backplate, open one knockout using screwdriver. Then attach backplate to free end of the metal hose. Attach the bracket by putting the bracket's hooks into the slots in the center of the housing. Secure the bracket with screws. Connect the wires: Black to Black, White to White, Green to Green.
3. Reattach the backplate in its place and secure with screw. Align the studs of the side plate with the slots in the housing, place the side plates, and secure them with screws.



MOTION SENSOR INSTALLATION

ASD-09MW **ASD-09MW-NLS**
ASD-09IR **ASD-09IR-NLS**
ASD-09IR50 **sold separately:**

1. Unscrew the microwave sensor base cap.
 2. Insert and twist the sensor until it is tight on the base surface.
- For ASD-NLS sensors download ASD NLS app and add the fixture to it according to the manual (download manuals and app from the links or scan the QR codes below).



[Desktop manual](#)



[Smartphone manual](#)

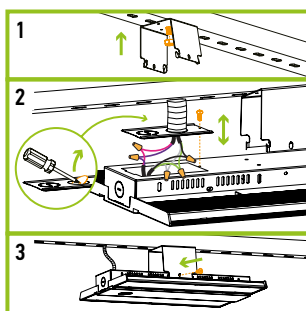


SURFACE MOUNT

ASD-SMB1-WHB5

sold separately:

1. Secure the brackets to ceiling, beam, joist or rail. (bolts not included).
2. Connect the wires: Black to Black, White to White, Green to Green.
3. Attach the fixture to the bracket and secure with one screw per each side of the bracket.



[ASD NLS app download Android](#)



[ASD NLS app download iOS](#)



For most up-to-date spec sheets please refer to asd-lighting.com

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LED LINEAR HIGH BAY WITH Q-BASE

ORDERING INFORMATION

| Model | UPC | Pcs. per carton | Carton size | Carton weight |
|----------------------|--------------|-----------------|----------------------|---------------|
| WHB5B 150lm/W | | | | |
| ASD-WHB5B-100A50 | 810128116817 | 1 | 15.9" x 10.6" x 3.7" | 5.5 lbs |
| ASD-WHB5B-160A50 | 810128116510 | 1 | 15.9" x 10.6" x 3.7" | 6.4 lbs |
| ASD-WHB5B-220A50 | 810128116527 | 1 | 18.7" x 13.2" x 3.7" | 8.8 lbs |
| ASD-WHB5B-320A50 | 810128116534 | 1 | 21.5" x 15.2" x 4" | 11.2 lbs |
| ASD-WHB5B-500A50 | 810128116565 | 1 | 36.5" x 13.2" x 3.7" | 17.5 lbs |

| Model | UPC | Pcs. per carton | Carton size | Carton weight |
|--|--------------|-----------------|----------------------|---------------|
| WHB5B-PRO 170lm/W | | | | |
| ASD-WHB5B-PRO-100 | 810128116824 | 1 | 15.9" x 10.6" x 3.7" | 5.5 lbs |
| ASD-WHB5B-PRO-160 | 810128116541 | 1 | 15.9" x 10.6" x 3.7" | 6.4 lbs |
| ASD-WHB5B-PRO-220 | 810128116558 | 1 | 18.7" x 13.2" x 3.7" | 8.8 lbs |
| ASD-WHB5B-PRO-320 | 810128116572 | 1 | 21.5" x 15.2" x 4" | 11.2 lbs |
| ASD-WHB5B-PRO-500 | 810128116589 | 1 | 36.5" x 13.2" x 3.7" | 17.5 lbs |
| WHB5BHV-PRO HIGH VOLTAGE 170lm/W | | | | |
| ASD-WHB5BHV-PRO-220 | 810128116831 | 1 | 18.7" x 13.2" x 3.7" | 8.8 lbs |
| ASD-WHB5BHV-PRO-320 | 810128116848 | 1 | 21.5" x 15.2" x 4" | 11.2 lbs |
| WHB5B-PRO-EM WITH BATTERY BACK-UP 170lm/W | | | | |
| ASD-WHB5B-PRO-160-40EM | 810128116855 | 1 | 15.9" x 6.3" x 11" | 9.6 lbs |
| ASD-WHB5B-PRO-220-40EM | 810128116862 | 1 | 18.7" x 6.3" x 13.6" | 11.9 lbs |

ACCESSORIES:

| Model | Description | UPC | Pcs. in middle box | Middle box size | Middle box weight | GTIN 14 in middle box | Pcs. per carton | Carton size | Carton weight | GTIN 14 |
|------------------|--|--------------|--------------------|---------------------|-------------------|-----------------------|-----------------|-----------------------|---------------|----------------|
| ASD-09MW-WH | Microwave motion sensor 3pin white | 810128113700 | 10 | 5.5" x 2.6" x 11.4" | 1.2 lbs | 20810128113704 | 120 | 17.3" x 11.8" x 11" | 12.1 lbs | 30810128113701 |
| ASD-09MW-BK | Microwave motion sensor 3pin black | 810128113717 | 10 | 5.5" x 2.6" x 11.4" | 1.2 lbs | 20810128113711 | 120 | 17.3" x 11.8" x 11" | 12.1 lbs | 30810128113718 |
| ASD-09IR-WH | Infrared motion sensor 3pin white | 810128113694 | 10 | 5.5" x 2.6" x 11.4" | 1.2 lbs | 20810128113698 | 120 | 17.3" x 11.8" x 11" | 12.1 lbs | 30810128113695 |
| ASD-09IR-BK | Infrared motion sensor 3pin black | 810128114349 | 10 | 5.5" x 2.6" x 11.4" | 1.2 lbs | 20810128114343 | 120 | 17.3" x 11.8" x 11" | 12.1 lbs | 30810128114340 |
| ASD-09IR50-WH | Infrared motion sensor 3pin 50ft white | 810128116794 | 10 | 5.5" x 2.6" x 11.4" | 0.9 lbs | 10810128116791 | 120 | 17.3" x 11.8" x 11" | 10.7 lbs | 20810128116798 |
| ASD-06RC | Remote control for motion sensor | 810128114370 | 10 | 6.3" x 2.9" x 11.4" | 0.5 lbs | 30810128114371 | 60 | 15.8" x 11.8" x 9.3" | 24.7 lbs | 40810128114378 |
| ASD-09MW-NLS-WH | Microwave motion sensor smart 3pin white | 810128113762 | 10 | 5.5" x 2.6" x 11.4" | 1.2 lbs | 20810128113766 | 120 | 17.3" x 11.8" x 11" | 12.1 lbs | 30810128113763 |
| ASD-09IR-NLS-WH | Infrared motion sensor smart 3pin white | 810128113755 | 10 | 5.5" x 2.6" x 11.4" | 1.2 lbs | 20810128113759 | 120 | 17.3" x 11.8" x 11" | 12.1 lbs | 30810128113756 |
| ASD-06RC-NLS | Remote control for motion sensor smart | 810128114387 | 10 | 6.3" x 2.9" x 11.4" | 0.5 lbs | 20810128114381 | 60 | 15.8" x 11.8" x 9.3" | 24.7 lbs | 30810128114388 |
| ASD-EMK20W-WHB5B | Battery back-up kit 20W | 810128113977 | - | - | - | - | 10 | 10.5" x 10.2" x 11.5" | 26.5 lbs | 10810128113974 |
| ASD-EMK30W-WHB5A | Battery back-up kit 30W | 810050735933 | - | - | - | - | 10 | 10.5" x 10.2" x 11.5" | 26.5 lbs | 10810050735930 |
| ASD-SMB1-WHB5 | Surface mount bracket | 810050739764 | - | - | - | - | 50 | 22.8" x 7.9" x 20.9" | 24.3 lbs | 20810050739768 |
| ASD-PMB1-WHB5 | Pendant mounting bracket | 810050739757 | - | - | - | - | 50 | 22.8" x 7.9" x 20.9" | 34.2 lbs | 20810050739751 |

For most up-to-date spec sheets please refer to asd-lighting.com