



LED LINEAR HIGH BAY

► **DESIGN** - LED LINEAR HIGH BAY has energy-efficient LED drivers to ensure high performance. Durable commercial grade housing resistant to rust and impact 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.

► **MOTION SENSOR** - The built-in microwave motion sensor will turn off the fixture automatically when no motion is detected. The sensor can be adjusted using the handheld remote.

► Surge protection 6kV protects the fixture from voltage spikes and current surges.

► **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 is also Damp Locations rated.

► **ADVANTAGES** - With calculated lifespan up to 200,000 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	Size	Watts	Voltage	Dimmable	Lumens	CCT	Finish	Dimensions (LxWxH)	Option
ASD-WHB5M-2D11040	2 ft	110W	120-277 V	0-10 V	15,180 lm	4,000 K	White	24-1/2" x 11-7/8" x 1-7/8"	-
ASD-WHB5M-2D11050	2 ft	110W	120-277 V	0-10 V	15,290 lm	5,000 K	White	24-1/2" x 11-7/8" x 1-7/8"	-
ASD-WHB5M-2D16540	2 ft	165W	120-277 V	0-10 V	22,440 lm	4,000 K	White	24-1/2" x 11-7/8" x 1-7/8"	-
ASD-WHB5M-2D16550	2 ft	165W	120-277 V	0-10 V	22,605 lm	5,000 K	White	24-1/2" x 11-7/8" x 1-7/8"	-
ASD-WHB5M-2D22040	2 ft	220W	120-277 V	0-10 V	30,360 lm	4,000 K	White	24-1/2" x 14-1/8" x 1-7/8"	-
ASD-WHB5M-2D22050	2 ft	220W	120-277 V	0-10 V	30,580 lm	5,000 K	White	24-1/2" x 14-1/8" x 1-7/8"	-
ASD-WHB5M-4D22050	4 ft	220W	120-277 V	0-10 V	30,580 lm	5,000 K	White	47-1/4" x 12-3/4" x 2-1/8"	-
ASD-WHB5M-4D32050	4 ft	320W	120-277 V	0-10 V	43,520 lm	5,000 K	White	47-1/4" x 12-3/4" x 2-1/8"	-
ASD-WHB5M-4D50050	4 ft	500W	120-277 V	1-10 V	69,000 lm	5,000 K	White	47-1/2" x 15-3/16" x 2-1/8"	-
WHB5MHV HIGH VOLTAGE									
ASD-WHB5MHV-2D22050	2 ft	220W	277-480 V	0-10 V	30,140 lm	5,000 K	White	24-3/4" x 15-3/16" x 2-1/8"	-
ASD-WHB5MHV-4D32050	4 ft	320W	277-480 V	0-10 V	43,840 lm	5,000 K	White	47-1/4" x 12-3/4" x 2-1/8"	-
WHB5M-MSR WITH MOTION SENSOR									
ASD-WHB5M-2D11050-MSR	2 ft	110W	120-277 V	0-10 V	15,290 lm	5,000 K	White	24-1/2" x 11-7/8" x 2-5/8"	Motion sensor
ASD-WHB5M-2D16550-MSR	2 ft	165W	120-277 V	0-10 V	22,605 lm	5,000 K	White	24-1/2" x 11-7/8" x 2-5/8"	Motion sensor
ASD-WHB5M-2D22050-MSR	2 ft	220W	120-277 V	0-10 V	30,580 lm	5,000 K	White	24-1/2" x 14-1/8" x 2-5/8"	Motion sensor
ASD-WHB5M-4D22050-MSR	4 ft	220W	120-277 V	0-10 V	30,580 lm	5,000 K	White	47-1/4" x 12-3/4" x 2-7/8"	Motion sensor
ASD-WHB5M-4D32050-MSR	4 ft	320W	120-277 V	0-10 V	43,839 lm	5,000 K	White	47-1/4" x 12-3/4" x 2-7/8"	Motion sensor
UHB-RC-MSK1	Remote control for motion sensor							6-7/8" x 2-1/4" x 1-1/16"	-

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

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LED LINEAR HIGH BAY

PRODUCT SPECIFICATIONS:

Construction & Materials						
Housing	Steel					
Lens	PC					
Finish	White					
Weight	ASD-WHB5M-2D11040	16 lbs (7.3 kg)	ASD-WHB5M-4D22050	13.7 lbs (6.2 kg)	ASD-WHB5M-2D11050-MSR	15 lbs (6.8 kg)
	ASD-WHB5M-2D11050		ASD-WHB5M-4D32050		ASD-WHB5M-2D16550-MSR	
	ASD-WHB5M-2D16540	17.3 lbs (7.9 kg)	ASD-WHB5M-4D50050	18.1 lbs (8.2 kg)	ASD-WHB5M-2D22050-MSR	19.9 lbs (9 kg)
	ASD-WHB5M-2D16550	17.1 lbs (7.8 kg)	ASD-WHB5MHV-2D22050	11.7 lbs (5.3 kg)	ASD-WHB5M-4D22050-MSR	14.1 lbs (6.4 kg)
	ASD-WHB5M-2D22040	19.5 lbs (8.9 kg)	ASD-WHB5MHV-4D32050	15.7 lbs (7.1 kg)	ASD-WHB5M-4D32050-MSR	14.6 lbs (6.6 kg)
ASD-WHB5M-2D22050						
Environmental system						
Work environment	Suitable for Damp Locations					
Operating temperature	-22°F to 122°F (-30°C to 50°C)					
L-70 Life	R > 60,000 hrs; C > 200,000 hrs					
Optical system						
Luminous flux	ASD-WHB5M-2D11040	15,180 lm	ASD-WHB5M-4D22050	30,580 lm	ASD-WHB5M-2D11050-MSR	15,290 lm
	ASD-WHB5M-2D11050	15,290 lm	ASD-WHB5M-4D32050	43,520 lm	ASD-WHB5M-2D16550-MSR	22,605 lm
	ASD-WHB5M-2D16540	22,440 lm	ASD-WHB5M-4D50050	69,000 lm	ASD-WHB5M-2D22050-MSR	30,580 lm
	ASD-WHB5M-2D16550	22,605 lm	ASD-WHB5MHV-2D22050	30,140 lm	ASD-WHB5M-4D22050-MSR	
	ASD-WHB5M-2D22040	30,360 lm	ASD-WHB5MHV-4D32050	43,840 lm	ASD-WHB5M-4D32050-MSR	43,839 lm
Color temperature	ASD-WHB5M-2D11040	4,000 K	ASD-WHB5M-4D22050	5,000 K	ASD-WHB5M-2D11050-MSR	5,000 K
	ASD-WHB5M-2D11050	5,000 K	ASD-WHB5M-4D32050		ASD-WHB5M-2D16550-MSR	
	ASD-WHB5M-2D16540	4,000 K	ASD-WHB5M-4D50050		ASD-WHB5M-2D22050-MSR	
	ASD-WHB5M-2D16550	5,000 K	ASD-WHB5MHV-2D22050		ASD-WHB5M-4D22050-MSR	
	ASD-WHB5M-2D22040	4,000 K	ASD-WHB5MHV-4D32050		ASD-WHB5M-4D32050-MSR	
ASD-WHB5M-2D22050	5,000 K					
CRI	> 80					
Electrical system						
Input voltage	Regular voltage: 120-277 V					
	High voltage: 277-480 V					
Max input current	ASD-WHB5M-2D11040	1.3 A	ASD-WHB5M-4D22050	2.6 A	ASD-WHB5M-2D11050-MSR	1.3 A
	ASD-WHB5M-2D11050		ASD-WHB5M-4D32050	3.8 A	ASD-WHB5M-2D16550-MSR	2 A
	ASD-WHB5M-2D16540	2 A	ASD-WHB5M-4D50050	6 A	ASD-WHB5M-2D22050-MSR	2.6 A
	ASD-WHB5M-2D16550		ASD-WHB5MHV-2D22050	0.9 A	ASD-WHB5M-4D22050-MSR	
	ASD-WHB5M-2D22040	2.6 A	ASD-WHB5MHV-4D32050	1.3 A	ASD-WHB5M-4D32050-MSR	3.8 A
ASD-WHB5M-2D22050						
Inrush current (Action time)	ASD-WHB5M-2D11040	60 A (0.75 S)	ASD-WHB5M-4D22050	60 A (0.75 S)	ASD-WHB5M-2D11050-MSR	60 A (0.75 S)
	ASD-WHB5M-2D11050		ASD-WHB5M-4D32050		ASD-WHB5M-2D16550-MSR	
	ASD-WHB5M-2D16540		ASD-WHB5M-4D50050	ASD-WHB5M-2D22050-MSR		
	ASD-WHB5M-2D16550		ASD-WHB5MHV-2D22050	ASD-WHB5M-4D22050-MSR		
	ASD-WHB5M-2D22040		ASD-WHB5MHV-4D32050	ASD-WHB5M-4D32050-MSR		
ASD-WHB5M-2D22050						
Off state power	0W					
Power consumption	ASD-WHB5M-2D11040	110W	ASD-WHB5M-4D22050	220W	ASD-WHB5M-2D11050-MSR	110W
	ASD-WHB5M-2D11050		ASD-WHB5M-4D32050	320W	ASD-WHB5M-2D16550-MSR	165W
	ASD-WHB5M-2D16540	165W	ASD-WHB5M-4D50050	500W	ASD-WHB5M-2D22050-MSR	220W
	ASD-WHB5M-2D16550		ASD-WHB5MHV-2D22050	220W	ASD-WHB5M-4D22050-MSR	
	ASD-WHB5M-2D22040	220W	ASD-WHB5MHV-4D32050	320W	ASD-WHB5M-4D32050-MSR	320W
ASD-WHB5M-2D22050						
Power factor	> 0.9					
Output voltage	ASD-WHB5M-2D11040	110-130 V	ASD-WHB5M-4D22050	110-130 V	ASD-WHB5M-2D11050-MSR	110-130 V
	ASD-WHB5M-2D11050		ASD-WHB5M-4D32050	120-160 V	ASD-WHB5M-2D16550-MSR	
	ASD-WHB5M-2D16540		ASD-WHB5M-4D50050	180-260 V	ASD-WHB5M-2D22050-MSR	
	ASD-WHB5M-2D16550		ASD-WHB5MHV-2D22050	22-56 V	ASD-WHB5M-4D22050-MSR	
	ASD-WHB5M-2D22040		ASD-WHB5MHV-4D32050	32-56 V	ASD-WHB5M-4D32050-MSR	
ASD-WHB5M-2D22050						
Max output current	ASD-WHB5M-2D11040	0.82 A	ASD-WHB5M-4D22050	1.64 A	ASD-WHB5M-2D11050-MSR	0.82 A
	ASD-WHB5M-2D11050		ASD-WHB5M-4D32050	2 A	ASD-WHB5M-2D16550-MSR	1.2 A
	ASD-WHB5M-2D16540	1.2 A	ASD-WHB5M-4D50050	0.92 A * 2	ASD-WHB5M-2D22050-MSR	1.64 A
	ASD-WHB5M-2D16550		ASD-WHB5MHV-2D22050	2 A * 2	ASD-WHB5M-4D22050-MSR	
	ASD-WHB5M-2D22040	1.64 A	ASD-WHB5MHV-4D32050	6.2 A	ASD-WHB5M-4D32050-MSR	2 A
ASD-WHB5M-2D22050						

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



LED LINEAR HIGH BAY

Electrical system							
Surge protection DM/CM	ASD-WHB5M-2D11040		4 kV / 6 kV	ASD-WHB5M-4D22050	4 kV / 6 kV	ASD-WHB5M-2D11050-MSR	4 kV / 6 kV
	ASD-WHB5M-2D11050			ASD-WHB5M-4D32050		ASD-WHB5M-2D16550-MSR	
	ASD-WHB5M-2D16540			ASD-WHB5M-4D50050	14 kV / 14 kV	ASD-WHB5M-2D22050-MSR	
	ASD-WHB5M-2D16550			ASD-WHB5MHV-2D22050	6 kV / 10 kV	ASD-WHB5M-4D22050-MSR	
	ASD-WHB5M-2D22040			ASD-WHB5MHV-4D32050		ASD-WHB5M-4D32050-MSR	
	ASD-WHB5M-2D22050						
Dimming compatible controls *				Regular and voluntary certifications			
Brand	Lutron		Leviton	5-year limited warranty			
Models	DVSTV	DVTV	DS710	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			

* The list of dimmers is relevant for models without a motion sensor.

PACKAGE CONTENTS FOR 2 FT MODELS:

Description	Q-ty
LED Linear High Bay	2
Hanging Kit: V hook, Chain 3.2ft (A)	2
Box	1




PACKAGE CONTENTS FOR 4 FT MODELS:

Description	Q-ty
LED Linear High Bay	1
Hanging Kit: V hook, Chain 3.2ft (A)	1
Box	1

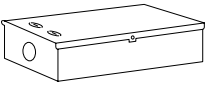


ACCESSORIES (sold separately):

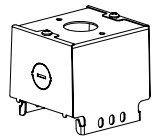
Remote control for motion sensor
UHB-RC-MSK1



Battery back-up kit 20W
ASD-EMK20W-WHB5M



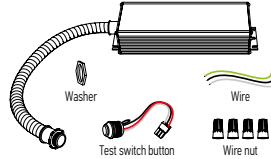
Pendant mount bracket



for 2ft 110/165/220W
ASD-PMB-WHB5-110/220W

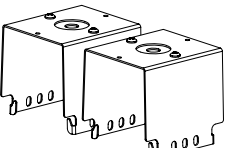
for 4ft 220/320/500W
ASD-PMB-WHB5-300/320W

Battery back-up kit 30W
BLD-GM30H-1500600



Washer, Wire, Quick connector, Wire nut, M4*1/4"

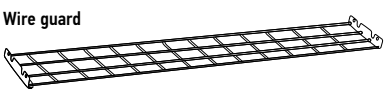
Surface mounting bracket



for 2ft 110/165/220W
ASD-SMB-WHB5-110/220W

for 4ft 220/320/500W
ASD-SMB2-WHB5

Wire guard



for 2ft 110/165W
ASD-WG2-WHB5-110/165W

for 2ft 220W
ASD-WG2-WHB5-220W

ACCESSORY COMPATIBILITY LIST:

Accessories	Remote control for motion sensor UHB-RC-MSK1	Battery back-up kit 20W ASD-EMK20W-WHB5M	Battery back-up kit 30W BLD-GM30H-1500600	Surface mount bracket ASD-SMB-WHB5-110/220W	Surface mount bracket ASD-SMB2-WHB5	Pendant mounting bracket ASD-PMB-WHB5-110/220W	Pendant mounting bracket ASD-PMB-WHB5-300/320W	Wire guard ASD-WG2-WHB5-110/165W	Wire guard ASD-WG2-WHB5-220W
ASD-WHB5M-2D11040		•		•		•		•	
ASD-WHB5M-2D11050		•		•		•		•	
ASD-WHB5M-2D16540		•		•		•		•	
ASD-WHB5M-2D16550		•		•		•		•	
ASD-WHB5M-2D22040		•		•		•		•	
ASD-WHB5M-2D22050		•		•		•		•	
ASD-WHB5M-4D22050		•		•	•	•		•	
ASD-WHB5M-4D32050		•		•	•	•		•	
ASD-WHB5M-4D50050			•	•	•	•		•	
ASD-WHB5MHV-2D22050				•	•	•		•	
ASD-WHB5MHV-4D32050				•	•	•		•	
ASD-WHB5M-2D11050-MSR	•	•		•		•		•	
ASD-WHB5M-2D16550-MSR	•	•		•		•		•	
ASD-WHB5M-2D22050-MSR	•	•		•		•		•	•
ASD-WHB5M-4D22050-MSR	•	•		•	•	•		•	
ASD-WHB5M-4D32050-MSR	•	•		•	•	•		•	

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

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LED LINEAR HIGH BAY

BUILT-IN MOTION SENSOR INFORMATION



WLB5M-MSR series



remote control
UHB-RC-MSK
(sold separately)

- ▶ Sensor parameters can be conveniently set via remote control (sold separately)
- ▶ Mounting height up to 49.2ft (15m) max., suitable for warehouse use
- ▶ Built-in adjustable daylight sensor

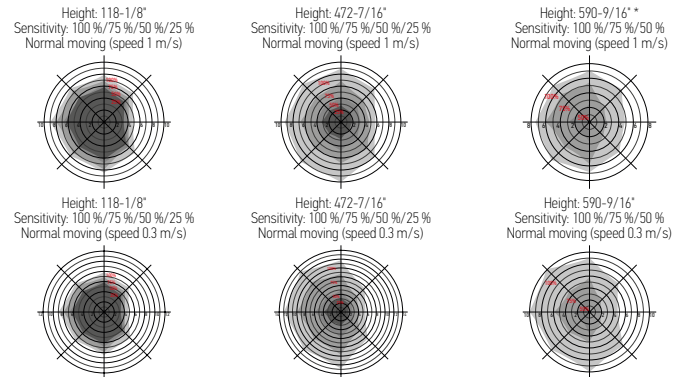
Specifications	Model: MC079D RC2B
Operating voltage	12 Vdc \pm 1 V
Operating current	25 mA
Working mode	0-10 Vdc
Detection area	25 %/50 %/75 %/100 %
Hold time	5 s/1 min/3 min/5 min/10 min/20 min/30 min
Daylight threshold	5 lux (0.5 fc)/15 lux (1.4 fc)/30 lux (2.8 fc)/50 lux (4.7 fc)/100 lux (9.3 fc)/150 lux (14 fc)/disable
Standby period	0 s/10 s/1 min/3 min/5 min/10 min/30 min/+ ∞
Standby dimming level	10 %/20 %/30 %/50 %
Operating Frequency	5.8 GHz \pm 75 MHz, ISM band
Transmitting power	max 1 mW
Stand-by power	< 0.3 mW
Mounting height	max 49.2 ft (15 m)
Detection range	max 39.37 ft (15 m)

DEFAULT SETTING:

Detection area	Hold time	Daylight sensor	Stand-by period	Stand-by dim level	Sensitivity
100 %	20 min	Disable	0 s	10 %	Low (LS)

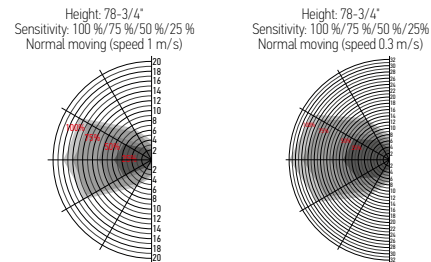
 RF interference may affect the operation of this sensor.

Coverage area for ceiling mounting:



* Only 100 %/75 %/50 % detection sensitivity is workable when installed at 590-9/16" mounting height
25 % sensitivity is not able to detect motion signal.

Coverage area for wall mounting:



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

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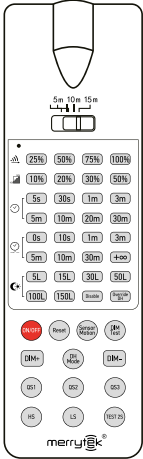
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LED LINEAR HIGH BAY

REMOTE CONTROL UHB-RC-MSK1 sold separately:



Button	Remarks
ON/OFF	Press the "ON/OFF" button: the fixture will switch to the constant on/off mode. Use ON/OFF button to on and off the fixture. Press any another button to switch back to the motion sensor mode.
Reset	Press "Reset" button: all parameters are the same as the DIP switch or factory settings.
Sensor motion	Press "Sensor motion" button, the light quits from the constant on/off mode, and the sensor starts to work (The latest setting stays in validity).
Dim test	Press "Dim test" button: the 0-10 V dimming works to test whether the 0-10 V dc dimming ports are connected properly. After 2 s, it returns to the latest setting automatically.
Override DH	Hold for 3 s: daylight priority mode will be switched to daylight threshold mode with the preset daylight value.
DIM + DIM -	Set occupancy light level in range of 50 % - 100 %. Dim level changes by 2 % each time Dim + / Dim - is pressed.
DH mode	Hold for 3 s: sensor will be switched to daylight priority mode, if the preset daylight value is set to "Disable" the sensor will stay in daylight threshold mode.
Escena option	Detection area Hold time Standby period Standby dim level Daylight sensor Induction model
QS1	100 % 5 min 10 min 10 % 30 lux (2.8 fc) HS
QS2	100 % 10 min 30 min 10 % Disable HS
QS3	100 % 20 min 30 min 10 % Disable HS
Test 2 s	Press the "Test 2 s" button at any time to enter test mode. In this mode the sensor parameters are as follows: Detection area is 100 %, Hold time is 5 s, Standby dim level is 10 %, Standby period is 0 s, daylight sensor is disabled. This function is only for testing. Press "Reset" or any other function button to exit this mode.
HS LS	Press the "HS" button for high sensitivity in the detection area. Press the "LS" button for low sensitivity in the detection area. The adjustment is based on the "Detection area" parameter you set.
Daylight sensor	Set up daylight threshold: 5 lux (0.5 fc)/15 lux (1.4 fc)/30 lux (2.8 fc)/50 lux (4.7 fc)/100 lux (9.3 fc)/150 lux (14 fc)/disable
Standby period	Set up standby time: 0 s/10 s/1 min/3 min/5 min/10 min/30 min/+ ∞
Hold time	Set up hold-time: 5 s/30 s/1 min/3 min/5 min/10 min/20 min/30 min
Standby dim level	Set up standby dim level: 10 %/20 %/30 %/50 %
Detection area	Set up detection area: 25 %/50 %/75 %/100 %
Remote distance	Toggle the button to set the remote distance of remote control and sensor.

Remote control and code setting conversion:

1. DIP switch settings convert to remote control: Press any button except "Reset" on the remote control, and the sensor settings convert to the function currently selected by the remote control. (No function button settings invalid).

2. Remote control convert to DIP switch settings:

- Press the "Reset" button on the remote control, and all settings return to the DIP switch settings of the sensor.
- Turn off the power, toggle any DIP switch, connect to the power, and all settings return to the DIP switch settings when power is supplied again.

To manually set your fixture use the top set of buttons on your wireless remote control. There are 5 sets of parameters to set.

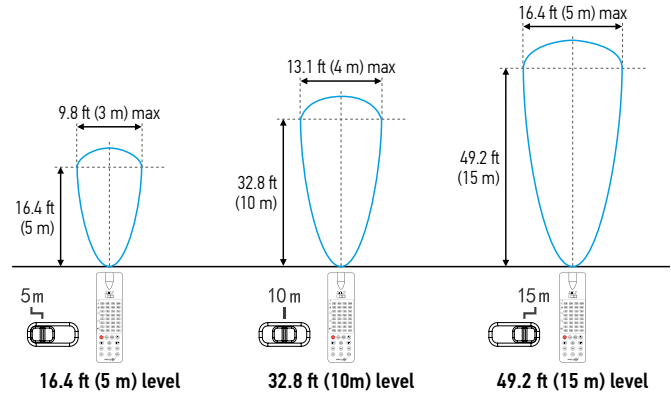
Detection area – sensitivity of motion sensor in percent.

Hold time – time the fixture will remain at full brightness after no motion is detected.

Stand by time – time fixture will remain on at a reduced brightness.

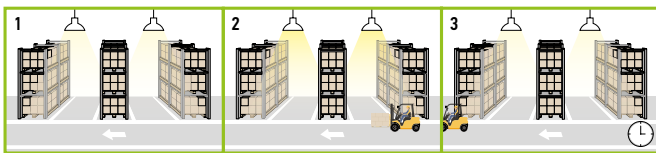
Stand by dim level – light output level after hold time expires and stand by time starts.

Daylight threshold – fixture can be set to adjust light output based on ambient light levels in the area.



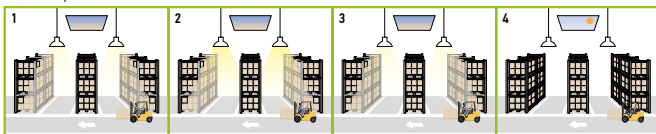
2-STEP DIMMING FUNCTION (STAND BY PERIOD BE SET TO "+ ∞")

- If there is no motion detected, the light will be remained at a low light level all the time.
- When motion is detected, the sensor will switch on the light to 100% brightness.
- After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.



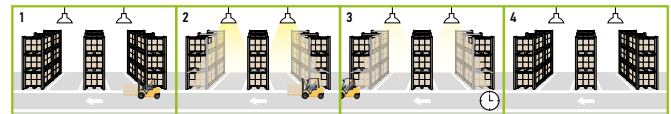
DAYLIGHT PRIORITY (STAND BY PERIOD SET TO "+ ∞")

- Lamp turns on at 10% at night.
- When motion is detected, lamp automatically lights up to 100%.
- After hold time, the lamp gradually dims to 10% if no movement is detected.
- Lamp turns off after dawn.



3-STEP DIMMING FUNCTION (STAND BY PERIOD BE SET TO "10 S/1 MIN/3 MIN/5 MIN/10 MIN/30 MIN")

- With sufficient ambient light, the light will not be switched on even with the motion sensor activated.
- With insufficient ambient light, the sensor will switch on the light when motion is detected.
- After elapse of hold time, the sensor will dim the light if no new motion is detected.
- After elapse of stand by period, the sensor switches off the light if no motion is detected.

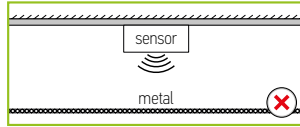


For most up-to-date spec sheets please refer to asd-lighting.com

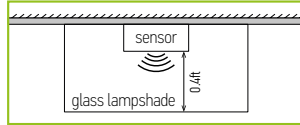


LED LINEAR HIGH BAY

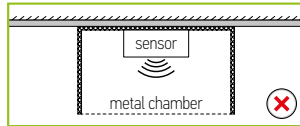
To avoid blocking the microwave emission, the microwave sensor can not be covered with metal materials, be sprayed with a coating of metal components, or have attached metal material or stickers etc.



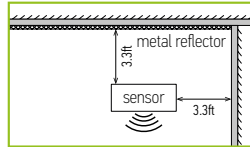
The distance between the antenna and the glass (dielectric material) should be no less than 0.4ft when the sensor is within the glass lampshade. Otherwise, the microwave motion sensor will not penetrate the glass easily.



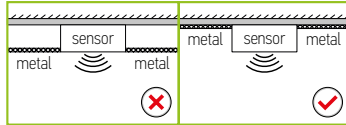
Avoid placing the sensor inside a metal chamber, this may cause a mis-trigger.



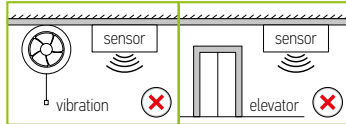
The sensor should not be placed in a small confined space. To avoid increasing the sensor detection range or abnormal operation, the sensor should be kept away from large areas of metal and glass reflectors (separation distance at least 3.3ft). Reduce the detection area setting.



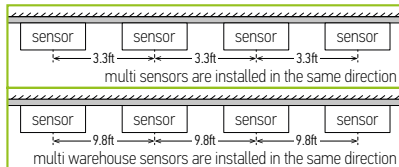
To avoid affecting the microwave signal transmission, the microwave antenna should be higher than the surrounding metal surface.



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



When multiple sensors are installed side-by-side in the same direction, the distance between each sensor should be kept at least 3.3ft (the warehouse sensors at least 9.8ft) to avoid mutual interference.

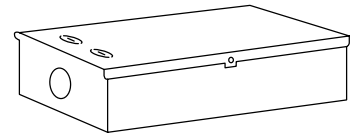


BACK-UP BATTERY KIT INFORMATION

ASD-EMK20W-WHB5M sold separately:

ASD-EMK20W-WHB5M 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. For more information please visit our website <https://www.asd-lighting.com/>

- ▶ Standard UL924 certification
- ▶ External LiFePO4 battery
- ▶ Battery Protection
- ▶ Over charge protection
- ▶ Over discharge protection
- ▶ Short circuit protection
- ▶ Battery Status Indicator Light
- ▶ Intelligent Emergency Detection Function
- ▶ 5 year warranty
- ▶ Emergency time : 90 minutes



Emergency operation:

When the AC power goes out, the emergency driver detects the outage and automatically switches to the emergency mode. The red LED ON indicates that it is discharging, the red LED flashing indicates low battery power, and the red LED OFF indicates the fixture is in emergency mode.

Test button operation:

Press Test button to switch the system to emergency mode, release to get back to the AC mode. When in AC mode - the button light is red, when in Emergency mode - button light goes off.

Specifications	Model: ASD-EMK20W-WHB5M
Input voltage	120-277 V 50/60 Hz
AC input current	max 100 mA
AC input power rating	max 7.0W
Output current and voltage	170 mA 50 - 150 Vdc
Output power	20W
Lumens	2,932 lm
Emergency time	≥ 1.5 hours
Warranty	5 years
Indicator light	Illuminated test switch, red, green, yellow indicator light
Battery	Li-ion battery - 11.1 V/4000 mAh
Battery charging current	250 mA
Charging time	≥ 24 hours
Temperature rating (Ambient)	22°F to 122°F (30°C to 50°C)
Dimensions	9-5/8" x 4-9/16" x 1-7/8" (244 mm x 116 mm x 47 mm)
Weight	2.2 lbs (1 kg)

BACK-UP BATTERY KIT INFORMATION

BLD-GM30H-1500600 sold separately:

Specifications	
Input voltage	100-347 Vac, 50/60 Hz
Input current	100 mA
Output voltage	250 Vdc
Output power	30W
Ambient temperature	0°C to 50°C (32°F to 122°F)

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

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LED LINEAR HIGH BAY

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.

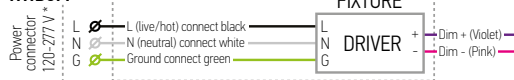
Risk of electric shock: This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

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

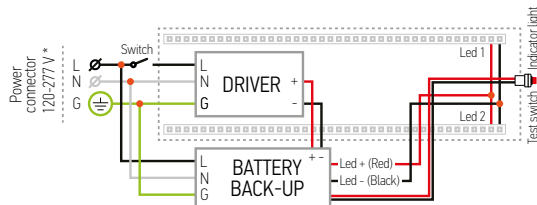
ASD® assumes no responsibility for claims arising out of improper or careless installation or handling of this product.

ELECTRICAL SCHEMATIC DIAGRAM:

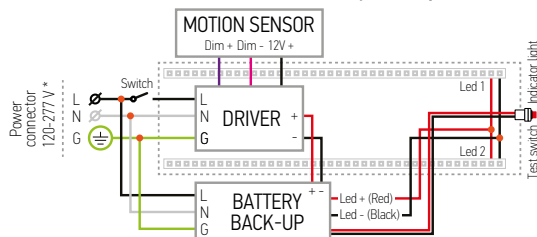
WHB5M



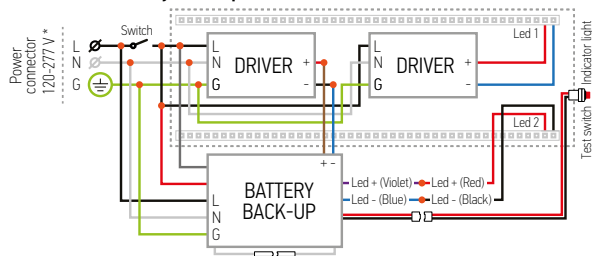
WHB5M with battery back-up kit (110W)



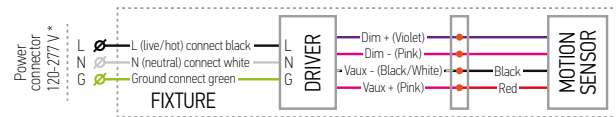
WHB5M-MSR with motion sensor and battery back-up kit (110W)



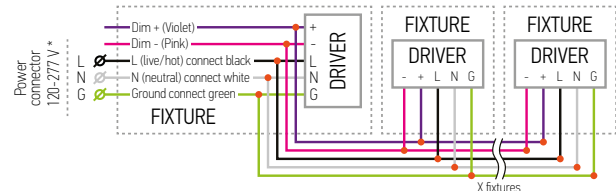
WHB5M with battery back-up kit (500W)



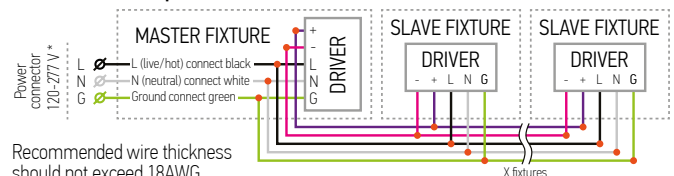
WHB5M-MSR with motion sensor



WHB5M multiple fixture connection



WHB5M-MSR multiple fixture connection with motion sensor

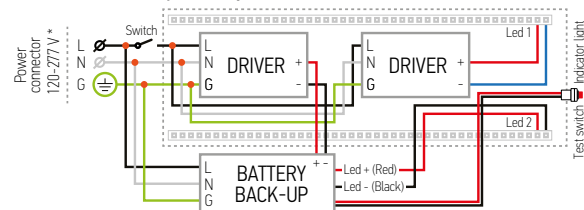


Recommended wire thickness should not exceed 18AWG.

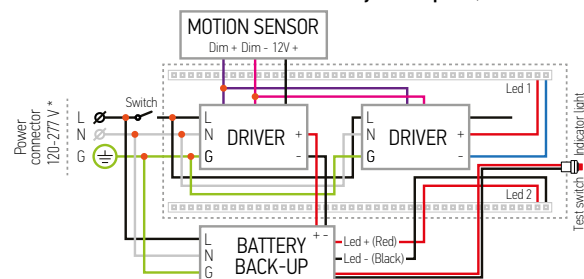
Connecting the ASD-WHB5M with a motion sensor in a daisy chain under the master-slave scheme, the max quantity of connected fixtures should not exceed 15: 1 master and 14 slave fixtures.

WARNING! Do not connect outer dimming devices if using the master-slave scheme with a fixture with the motion sensor.

WHB5M with battery back-up kit (165/220/320/500W)



WHB5M-MSR with motion sensor and battery back-up kit (165/220/320W)



* The regular voltage 120-277 V fixtures can be alternatively powered without neutral by two-phase circuit with phase-to-phase voltage of 208 V (L1-120 V & L2-120 V).
WARNING: Phase-to-phase voltage should be less than 277 V (160 V per each phase) and more than 120 V (70 V per each phase). Do not confuse Regular Voltage fixtures of 120-277 V with High Voltage ones of 277-480 V!

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

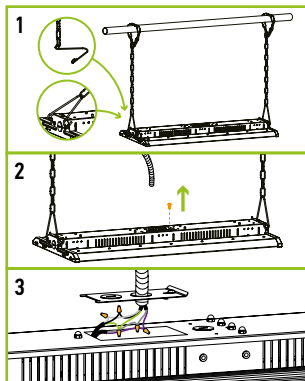


LED LINEAR HIGH BAY

INSTALLATION STEPS

CHAIN MOUNT:

1. Insert V-hooks into both ends of the fixture. Secure chain to ceiling, beam or other mounting surface. Use screwdriver to open the plate.
2. Open the top knockout with a screwdriver. Screw the plate back.
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.



PENDANT MOUNT

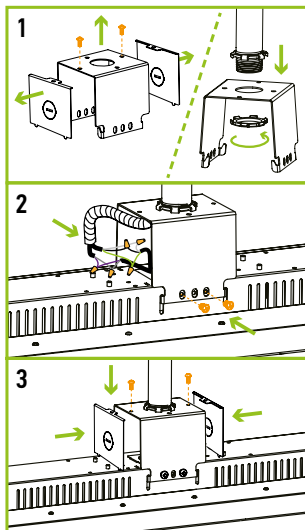
ASD-PMB-WHB5-110/220W

ASD-PMB-WHB5-300/320W

sold separately:

1. Unscrew two bolts on the top of the bracket and remove side plates. Install the bracket on 3/4" NPT pipe. Bracket does not include nuts or screws for mounting to surface.
2. Attach the bracket by putting the bracket's hooks into the slots in the center of the housing. Fix the bracket with screws. Connect the wires: Black to Black, White to White, Green to Green.
3. Align the studs of the side plate with the slots in the housing, set up the side plates, and fix them with screws.

⚠ Caution: When Battery back-up is installed, pendant mount bracket cannot be used.



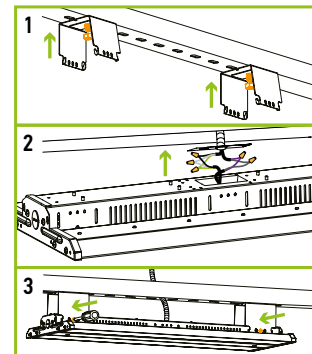
SURFACE MOUNT

ASD-SMB-WHB5-110/220W

ASD-SMB2-WHB5

sold separately:

1. Fix 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. Two screws per each side of the bracket.

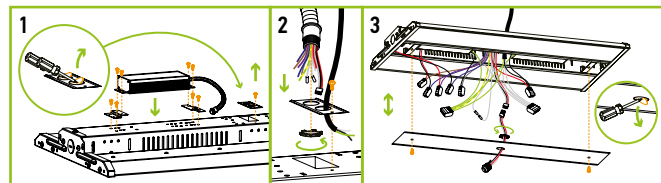


BATTERY BACK-UP KIT

BLD-GM30H-1500600

sold separately:

1. Install two battery brackets to the driver box and secure them with the screws (included). Attach the battery back-up to the brackets and secure it with four screws (included). Unscrew one screw and deattach knock-out plate on the driver box on the back of the fixture. Remove knock-out holes covers.
2. Pull the metal hose with wires through the knock-out hole and secure hose with washer (included). Pull the battery wires into the driver box, attach knock-out plate and secure it with screw.
3. Unscrew the screws in the front middle plate and deattach it, remove knock-out on it. Install test button in the center hole and secure it with washer (included). Make wiring:
Driver1 (+) brown to driver (+) red,
Driver1 (-) blue to driver (-) black,
LED (+) purple to LED (+) red,
LED (-) blue to LED (-) black,
AC L OUT grey to driver1 L input black,
Battery activation connectors white male to white female,
Back-up Ground green/yellow to both drivers ground greens and to AC line Grounding,
Back-up AC N white to both drivers N whites and to AC line Neutral,
Back-up AC L IN red to driver 2 AC L input black and to wall switch (cuttable) L wire,
AC L black (non-cuttable) to non-cuttable AC line L wire to main AC line L.
Connect test button by quick connector. Attach front plate and secure it with screws.



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

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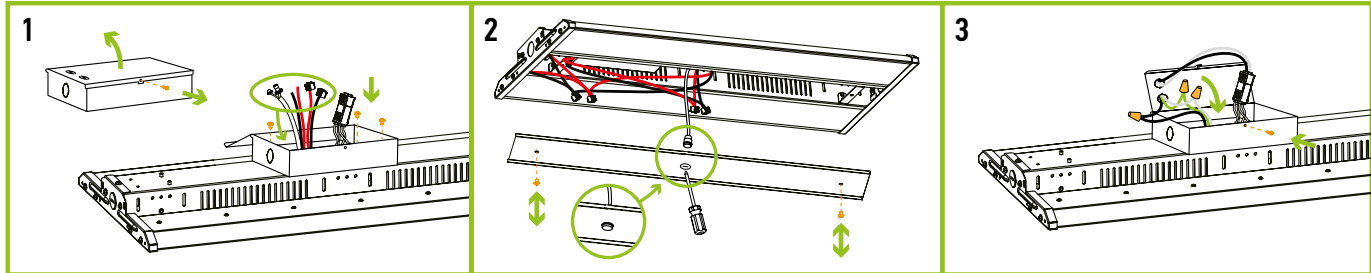




LED LINEAR HIGH BAY

BATTERY BACK-UP KIT ASD-EMK20W-WHB5M sold separately:

1. Open the wiring compartment of the highbay (unscrew the back plate, remove knockouts, take the wires out, screw the plate back). Remove the cover of the EM driver (4 screws). Attach the driver to the back of the high bay with 4 screws, pull the wires out. Connect the wires: black to black, red to red, according to the wiring diagram.
2. Reverse the fixture, take the center panel down. Remove 2 knockouts in the middle of the panel for indicator light and test button install. Pull indicator light and test button from the emergency driver to the front of the fixture, install them into the front cover. Screw the front panel back to the fixture.
3. Connect the wires: Black to Black, White to White, Green to Green, attach the cover of the EM driver.



ORDERING INFORMATION

Model	UPC	Pcs. per carton	Carton size	Carton weight	GTIN 14
ASD-WHB5M-2D11040	-	2	28.2" x 14.3" x 7.2"	16.9 lbs	10810050734896
ASD-WHB5M-2D11050	-	2	28.2" x 14.3" x 7.2"	16.9 lbs	10810050734919
ASD-WHB5M-2D16540	-	2	28" x 14.5" x 8"	18 lbs	10810050734902
ASD-WHB5M-2D16550	-	2	28" x 14.5" x 8"	18 lbs	10810050734926
ASD-WHB5M-2D22040	-	2	28.5" x 17" x 8"	20.6 lbs	10810050736159
ASD-WHB5M-2D22050	-	2	28.5" x 17" x 8"	20.6 lbs	10810050734933
ASD-WHB5M-4D22050	810050735087	1	51" x 15.2" x 5.1"	17.2 lbs	-
ASD-WHB5M-4D32050	810050735094	1	51" x 15.2" x 5.1"	17.2 lbs	-
ASD-WHB5M-4D50050	810050736169	1	51.2" x 17.8" x 4.7"	22.9 lbs	-
WHB5MHV HIGH VOLTAGE					
ASD-WHB5MHV-2D22050	810050737357	1	26.7" x 17.3" x 4.5"	13.4 lbs	-
ASD-WHB5MHV-4D32050	810050737364	1	51" x 15.2" x 5.1"	18.3 lbs	-
WHB5M-MSR WITH MOTION SENSOR					
ASD-WHB5M-2D11050-MSR	-	2	28.3" x 14.2" x 7.3"	17 lbs	10810050734940
ASD-WHB5M-2D16550-MSR	-	2	28.3" x 14.2" x 7.3"	17 lbs	10810050734957
ASD-WHB5M-2D22050-MSR	-	2	28" x 17" x 8"	20.7 lbs	10810050734964
ASD-WHB5M-4D22050-MSR	810050735070	1	51" x 15.2" x 5.1"	17.6 lbs	-
ASD-WHB5M-4D32050-MSR	810050736916	1	51" x 15.2" x 5.1"	18.1 lbs	-
UHB-RC-MSK1	819201022007	100	14.6" x 12.8" x 12.2"	11.3 lbs	10819201022004

ACCESSORIES:

Model	Description	UPC	Pcs. per carton	Carton size	Carton weight	GTIN 14
ASD-SMB-WHB5-110/220W	Surface mounting bracket for 110/165/220W	819201024902	20	18.9" x 7.8" x 7.9"	21.3 lbs	10819201024909
ASD-SMB2-WHB5	Surface mounting bracket for 220/320/500W	810050738491	20	22.3" x 9.2" x 7.9"	23 lbs	10810050738498
ASD-PMB-WHB5-110/220W	Pendant mounting bracket for 110/165/220W	819201024919	20	17.4" x 8" x 7.8"	12.9 lbs	10819201024916
ASD-PMB-WHB5-300/320W	Pendant mounting bracket for 220/320/500W	819201026128	20	20.5" x 9.3" x 7.8"	16 lbs	10819201026125
ASD-WG2-WHB5-110/165W	Wire guard for 2ft. 110/165W	819201024926	10	25.2" x 8.5" x 4.7"	9.9 lbs	10819201024923
ASD-WG2-WHB5-220W	Wire guard for 2ft. 220W	819201025008	10	25.2" x 10.6" x 4.7"	11.7 lbs	10819201025005
ASD-EMK20W-WHB5M	Battery back-up kit 20W	810050734974	10	10.6" x 10.6" x 10.6"	28.7 lbs	10810050734971
BLD-GM30H-1500600	Battery back-up kit 30W	810128110570	1	15.4" x 6.7" x 2.4"	4.2 lbs	-
RN1	Remote test switch for battery back-up kit	810050735223	20	5.9" x 8.5" x 4.5"	2.4 lbs	10810050735220

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

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