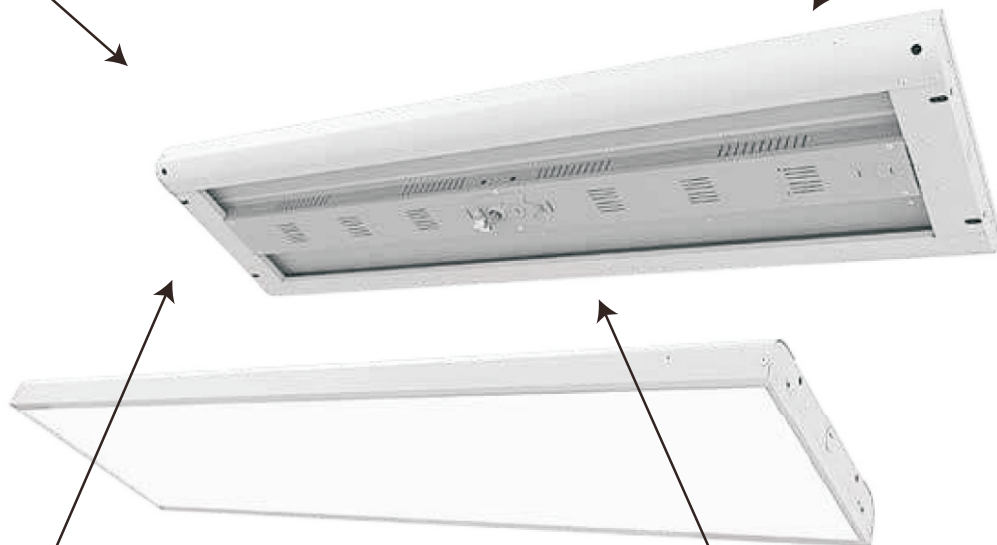




LED Linear High Bay

Onward ™
TECH INC



LM-80 **CRI** **PF**
>80 ≥0.95

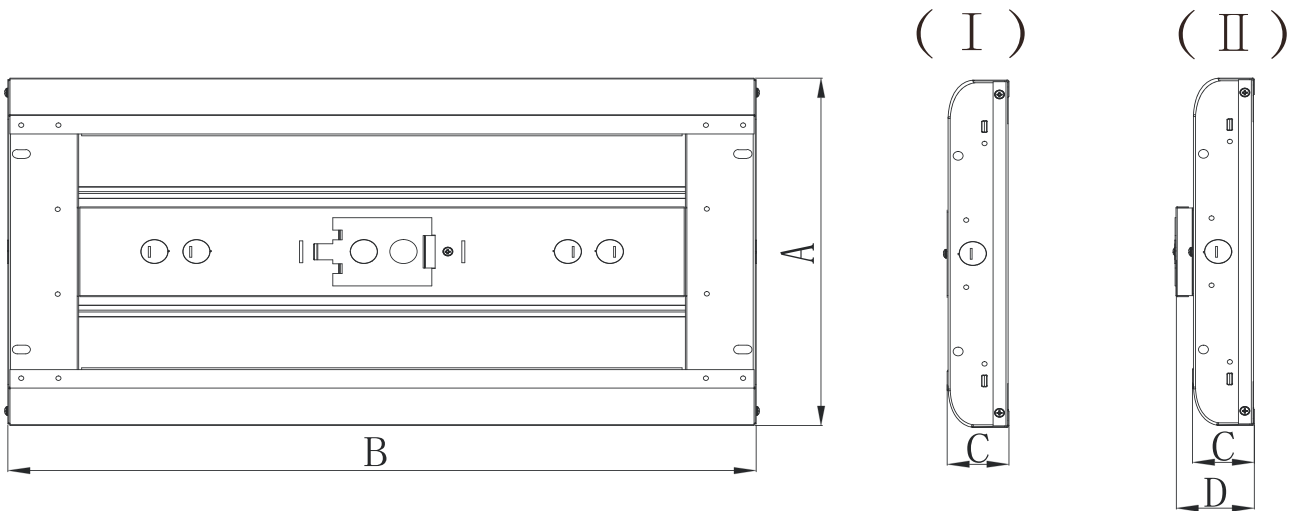


Product Features

Approved by UL No.503399

1. cULus & DLC FCC listed with LM79 & Lm80
2. High luminous efficacy 160lm/w
3. High quality isolated driver, 1-10V dimming, Flicker free
4. PF > 0.95, driver efficiency > 87%, THD < 20%
5. Installation: Suspension Mount, Pendant Mount occupancy motion sensor and emergency Battery back up available
6. Suitable for dry/damp location
7. Designed for warehouses, gymnasiums, and industrial spaces
8. CCT: 4000K, 4500K, 5000K, 5700K. 2. 5-year warranty.
9. Five years warranty

Product Dimension



AC120-277V

Model Number	Photo	A (inch)(mm)	B (inch)(mm)	C (inch)(mm)	D (inch)(mm)
OW-US-HB2-80W-H	II	12.60"(320mm)	23.82"(605mm)	2.17"(55mm)	\
OW-US-HB3-110W-H	II	12.60"(320mm)	23.82"(605mm)	2.17"(55mm)	\
OW-US-HB5-165W-H	II	17.32"(440mm)	23.82"(605mm)	2.17"(55mm)	\
OW-US-HB8-165W-H	I	12.60"(320mm)	45.79"(1163mm)	2.17"(55mm)	\
OW-US-HB6-220W-H	II	17.32"(440mm)	23.82"(605mm)	2.17"(55mm)	2.60"(66mm)
OW-US-HB9-225W-H	I	12.60"(320mm)	45.79"(1163mm)	2.17"(55mm)	\
OW-US-HB11-320W-H	II	17.32"(440mm)	45.79"(1163mm)	2.17"(55mm)	\
OW-US-HB11-325W-H	II	17.32"(440mm)	45.79"(1163mm)	2.17"(55mm)	\

AC347-480V

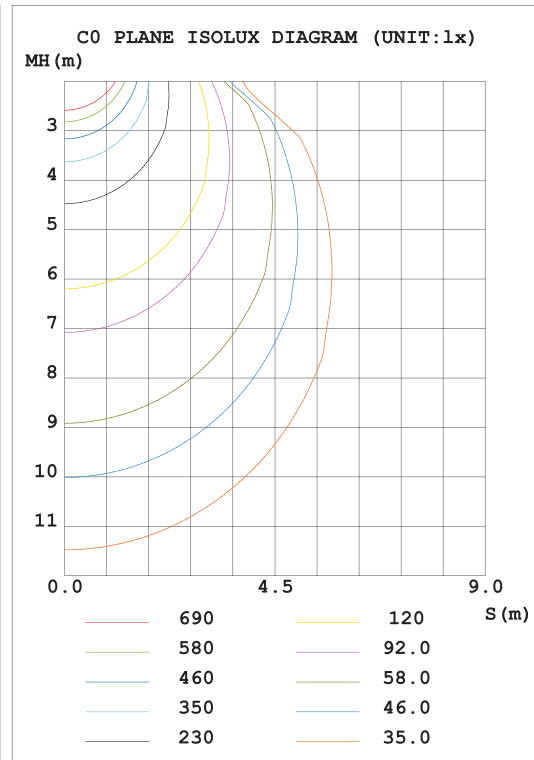
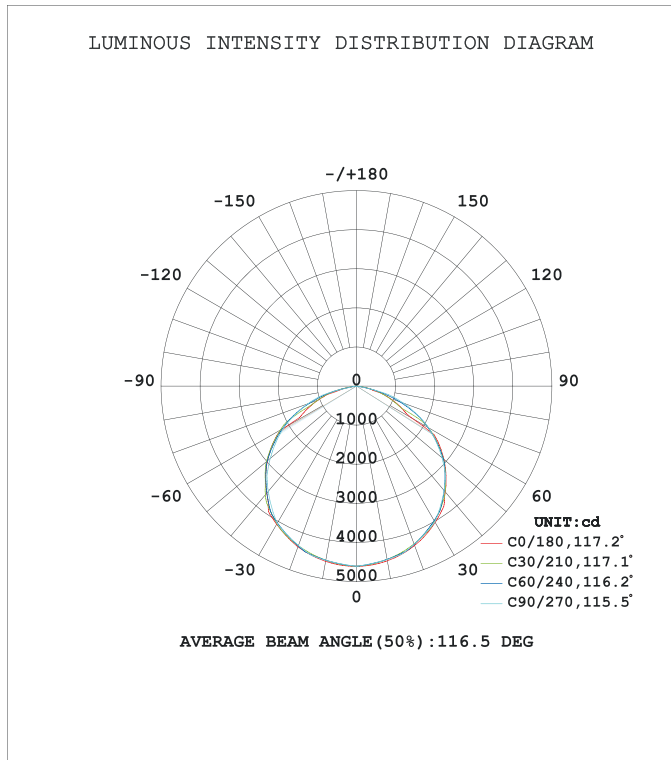
Model Number	Photo	A (inch)(mm)	B (inch)(mm)	C (inch)(mm)	D (inch)(mm)
OW-US-HB1-110W-HV-H	II	12.60"(320mm)	23.82"(605mm)	2.17"(55mm)	2.60"(66mm)
OW-US-HB4-220W-HV-H	II	17.32"(440mm)	23.82"(605mm)	2.17"(55mm)	2.91"(74mm)
OW-US-HB7-225W-HV-H	II	12.60"(320mm)	45.79"(1163mm)	2.17"(55mm)	2.60"(66mm)
OW-US-HB10-320W-HV-H	I	17.32"(440mm)	45.79"(1163mm)	2.17"(55mm)	2.60"(66mm)

Specification

AC120-277V										
Model Number	Photo	Power	Input Voltage	Size	Input Current	LED Strip	PF	Light Efficacy	Ra	CCT
OW-US-HB2-80W-H	II	80W	AC120-277	2FT	0.8A	2	>0.95	160lm/w	80	4000-5700K
OW-US-HB3-110W-H	II	110W	AC120-277	2FT	1.0A	2	>0.95	160lm/w	80	4000-5700K
OW-US-HB5-165W-H	II	165W	AC120-277	2FT	1.6A	2	>0.95	160lm/w	80	4000-5700K
OW-US-HB8-165W-H	I	165W	AC120-277	2FT	1.6A	2	>0.95	160lm/w	80	4000-5700K
OW-US-HB6-220W-H	II	220W	AC120-277	2FT	2.0A	2	>0.95	160lm/w	80	4000-5700K
OW-US-HB9-225W-H	I	225W	AC120-277	4FT	2.0A	2	>0.95	160lm/w	80	4000-5700K
OW-US-HB11-320W-H	II	320W	AC120-277	4FT	3.0A	2	>0.95	160lm/w	80	4000-5700K
OW-US-HB11-325W-H	II	325W	AC120-277	4FT	3.0A	2	>0.95	160lm/w	80	4000-5700K

AC347-480V										
Model Number	Photo	Power	Input Voltage	Size	Input Current	LED Strip	PF	Light Efficacy	Ra	CCT
OW-US-HB1-110W-HV-H	II	110W	AC347-480	2FT	0.36A	2	>0.95	160lm/w	80	4000-5700K
OW-US-HB4-220W-HV-H	II	220W	AC347-480	2FT	0.72A	2	>0.95	160lm/w	80	4000-5700K
OW-US-HB7-225W-HV-H	I	225W	AC347-480	4FT	0.72A	2	>0.95	160lm/w	80	4000-5700K
OW-US-HB10-320W-HV-H	II	320W	AC347-480	4FT	1.08A	2	>0.95	160lm/w	80	4000-5700K

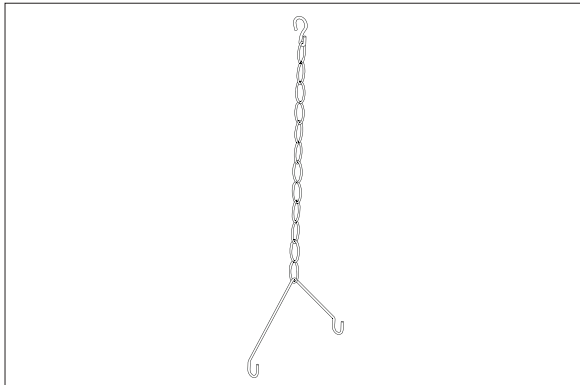
Test Report



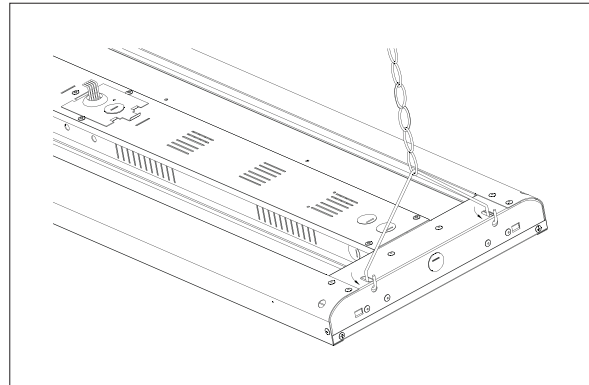
Light up your world with Onward

www.onward-tech.com

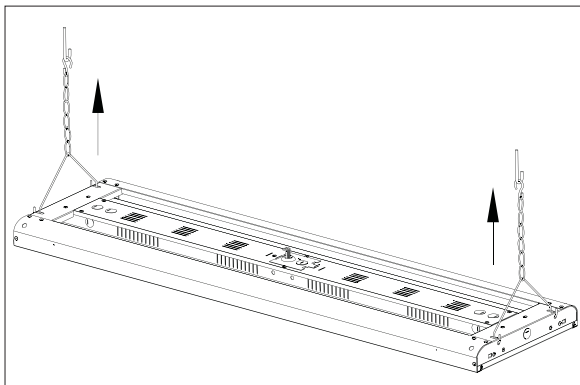
Installation



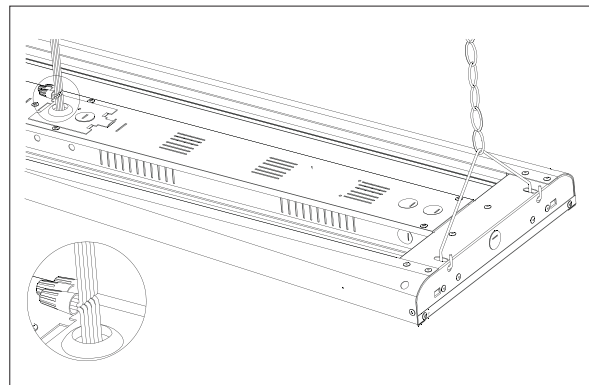
1. Hook the chain as below pic.



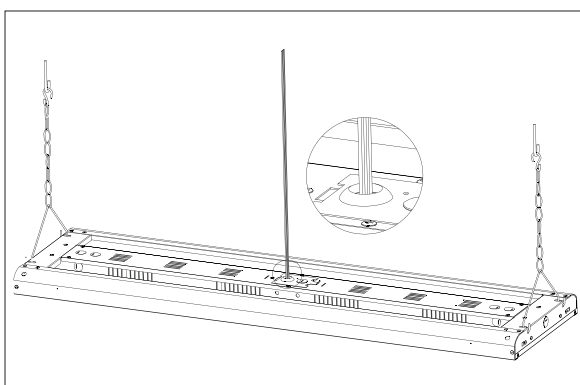
2. Insert the hook into the slotted holes, as shown below.



3. Hook up the chain on the ceiling anchor.

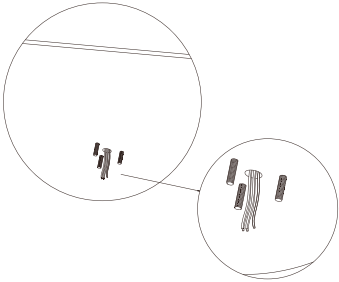


4. Turn off power, and make wiring connections with terminal cap.

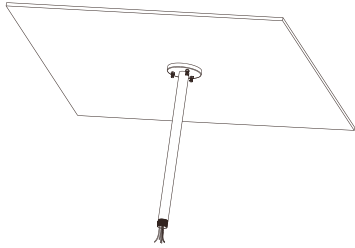


5. Insert the terminal cap and wires in to the driver box.

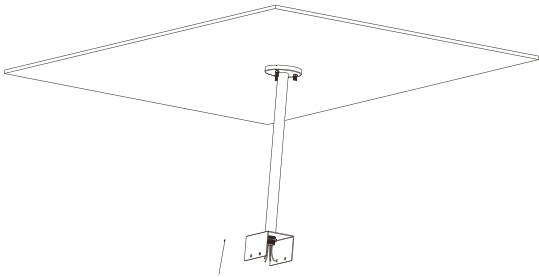
Please turn off power before installation



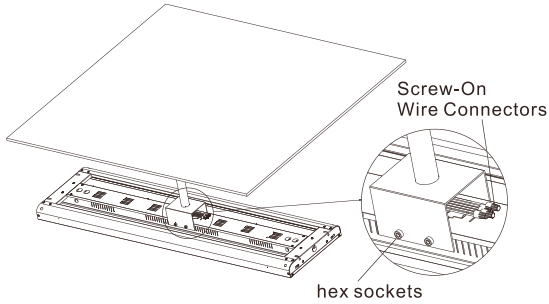
1. Fix the expansion screws into target place on the ceiling.



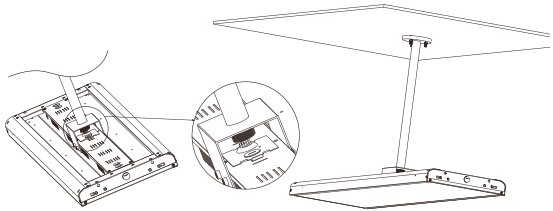
2. Pull the AC wire out of the pipe, then insert the hanging pipe holes to the expansion screws, and fix them well with nut.



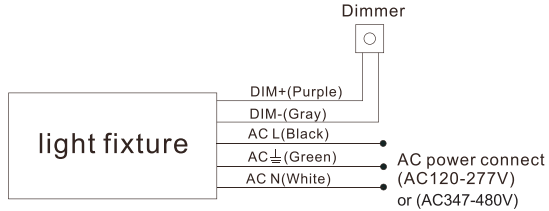
3. Connecting the hanging pipe and U shape bracket with nut.



4. Fix the lamp and the U shape bracket using 4 pcs hex sockets, then make wiring connections with screw-on wire connectors.



5. Insert the wires into the driver box then it is ok.



light fixture

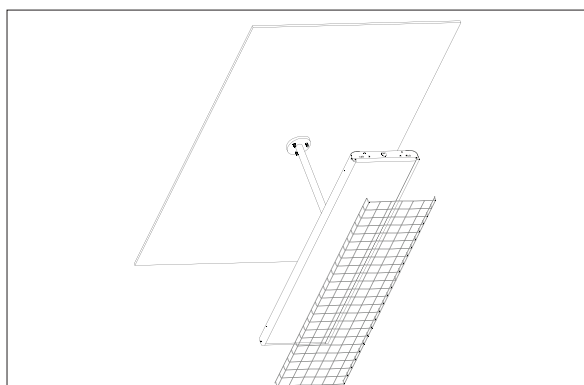
- DIM+ (Purple)
- DIM- (Gray)
- AC L (Black)
- AC \perp (Green)
- AC N (White)

Dimmer

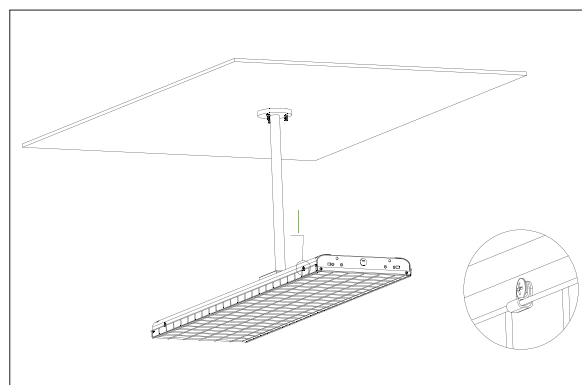
AC power connect (AC120-277V or (AC347-480V))

Wiring instruction

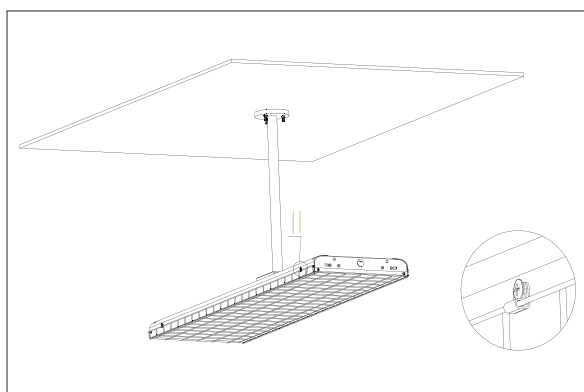
Rigid network installation



1 . Prepare lamp shade.

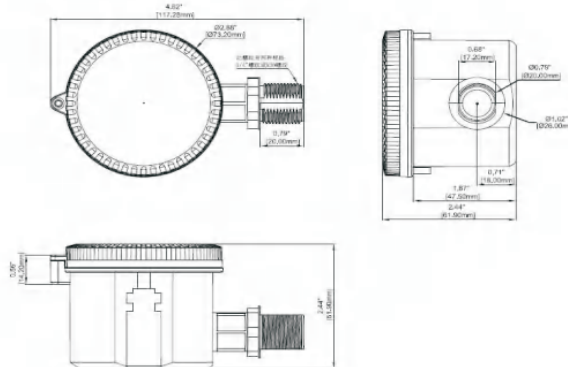


2. Buckle the lamp fixture with lamp shade and then align the screw hole in the lamp shade with the screw hole on the.



3 . fix the Wire Guard on lighting fixture with 4pcs crosshead screws.

Infrared integrated sensor



Initialization

1/ On/Off function /3-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it turns off the light. During the initialization, the sensor is not able to detect movement.

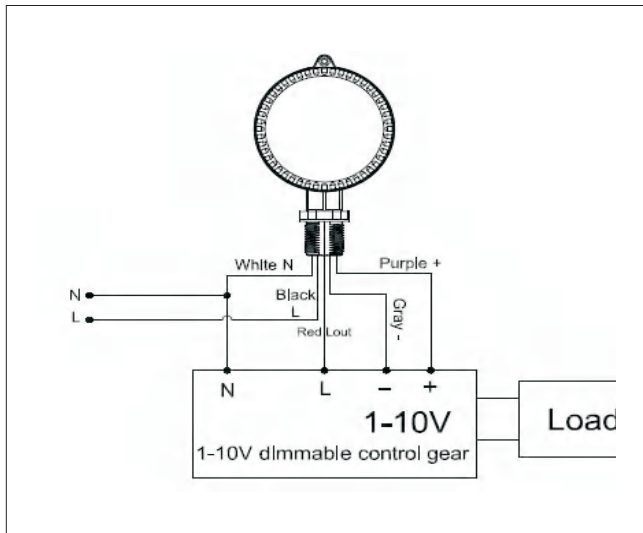
2/ 2-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it dims the light to a low light level (set by stand-by dim level). During the initialization, the sensor is not able to detect movement.

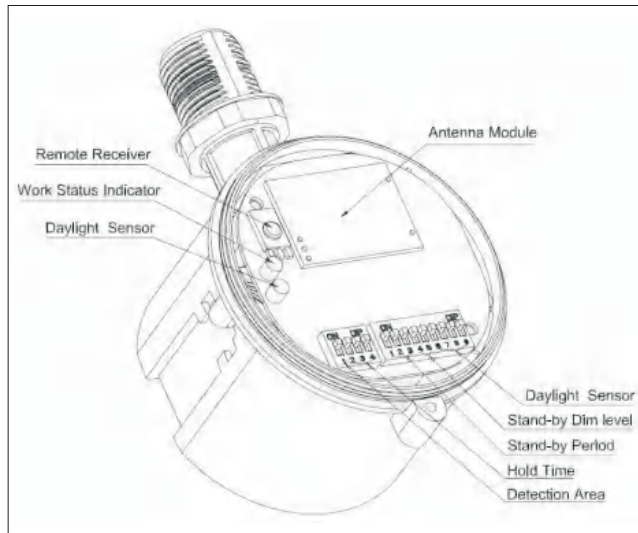
Parameters

Input	Operating Voltage Range	108-305V AC, 50Hz/60Hz
	DC Input Voltage	N/A
	Rated Voltage	120/277Vac, 50/60Hz
	No-load Power	N/A
	Stand-by Power	<1W
	Surge Test	L--N: 2kV
Output	Working Mode	ON/OFF function, 1-10V step dimming
	Type of Load	Inductive or resistive Load
	Load Capacity	120VAC: 4A; 277VAC: 3A
	Current of Load	N/A
	Max. Surge Capacity	50A (50% I _{peak} , t _{width} =500uS, 277Vac full load, cold start); 80A (50% I _{peak} , t _{width} =200uS, 277Vac, full load, cold start)
Dim Interface	1-10V Dimming	< 50mA (Non-constant source) 10%(1.4-1.6V), 20%(1.9-2.1V), 30%(2.9-3.1V), 50% (4.9-5.1V)
	Synchronous Control	N/A
	High Low-level	N/A
	PWM Control	N/A
Sensor Parameters	Operating Frequency	5.8 GHz ?75 MHz, ISM Band.
	Transmitting power	0.5mW Max.
	Hold time	DIP switch: 5s/30s/1min/3min/20min/30min Remote control: 5s/30s/1min/3min/5min/10min/20min/30min
	Stand-by DIM Level	DIP switch & Remote control: 10%/20%/30%/50%
	Stand-by Period	DIP switch: 0s/1min/3min/10min/30min/+∞ Remote control: 0s/10s/1min/3min/5min/10min/30min/+∞

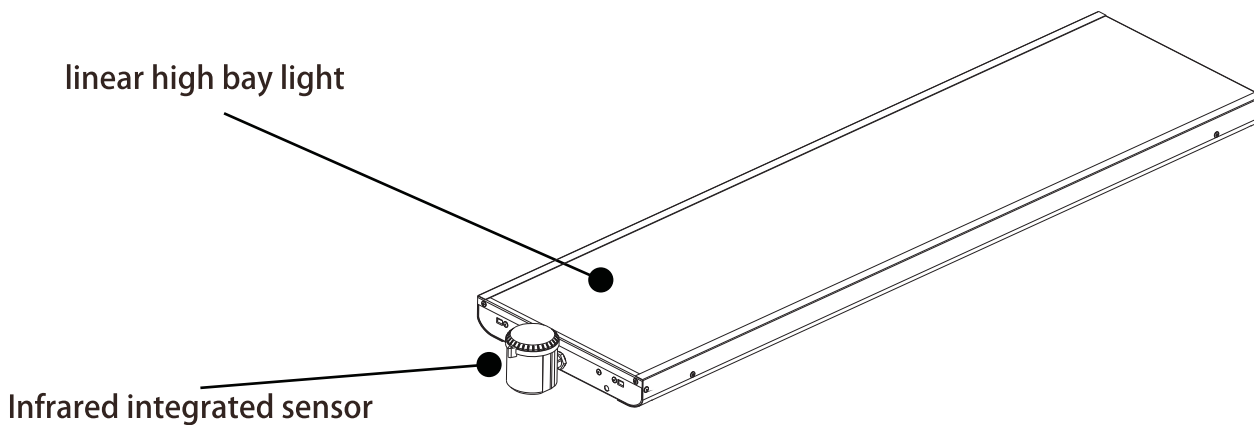
Wiring



Structure



MOUNTED TO LINEAR HIGH BAY LIGHT



Remote Control

Button	Remarks
ON/OFF	Press the "ON/OFF" button, the light goes to constant on or constant off mode, the sensor is disabled. Press " Reset " or " Auto Mode" button to quit from this mode.
Reset	Press "Reset" button, all parameters are the same as the DIP switch setting.
Auto Mode	Press "Auto Mode" button, the sensor starts to work and all parameters setting will remain the same as the previous status before the light is switched on/off.
DIM Test	Press "DIM Test" button to test the dimming function. The sensor will dim automatically and return to the normal work mode.
Test(2s)	The button "Test(2s)" is for factory testing purpose only. The sensor will go in to test mode, Detection sensitivity: 100% Hold time: 2sec stand-by dim level:10% Stand-by period: 0s Daylight sensor: Disable Test mode can be disabled by pressing any button.

Scene Options	Detection Area	Hold Time	Stand-by period	Stand-by dim level	Daylight Sensor
QS1	100%	30s	1min	10%	5Lux
QS2	100%	1min	3min	10%	10Lux
QS3	100%	5min	10min	10%	30Lux
QS4	100%	10min	30min	10%	Disable

Note: Detection area / Hold time / Stand-by period / Stand-by dim level / Daylight sensor can be adjusted by pressing the corresponding button. The latest setting will stay valid.

The Microwave Sensor's green working light will flash 3 times when the remote control is set successfully.

DIP Switch Setting

Detection Area (Sensitivity)

	1	
I	ON	100%
II	-	50%

Hold Time

	2	3	4	
I	ON	ON	ON	5s
II	-	ON	ON	30s
III	ON	-	ON	1min
IV	-	-	ON	3min
V	ON	ON	-	20min
VI	-	-	-	30min

Stand-by Period

	1	2	3	
I	ON	ON	ON	0s
II	-	ON	ON	1min
III	ON	-	ON	3min
IV	-	-	ON	10min
V	ON	ON	-	30min
VI	-	-	-	+∞

Stand-by Dim Level

	4	5	Brightness%	Voltage of 1-10V interface
I	ON	ON	10%	1.4-1.6V
II	ON	-	20%	1.9-2.1V
III	-	ON	30%	2.9-3.1V
IV	-	-	50%	4.9-5.1V

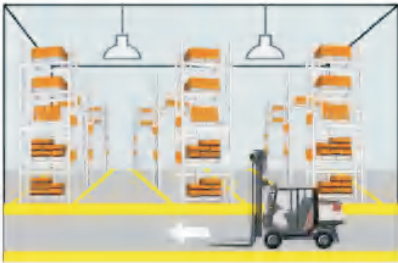
Daylight Sensor

	6	7	8	9	
I	ON	ON	ON	ON	5Lux
II	-	ON	ON	ON	15Lux
III	ON	-	ON	ON	30Lux
IV	-	-	ON	ON	50Lux
V	ON	ON	-	ON	100Lux
VI	ON	ON	ON	-	150Lux
VII	-	-	-	-	Disable*

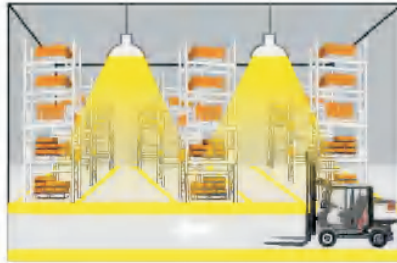
*Disable means the daylight sensor does not work. The sensor will turn on light once motion is detected regardless of ambient light level.

Function

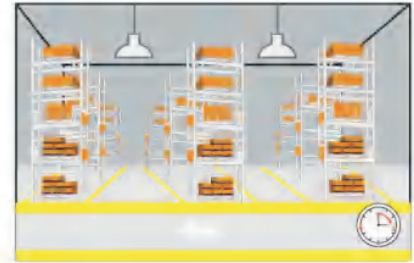
1) On/OFF Function (stand-by period be set to "0"s)



1 With sufficient ambient light, the light will not be switched on even if with motion signal.

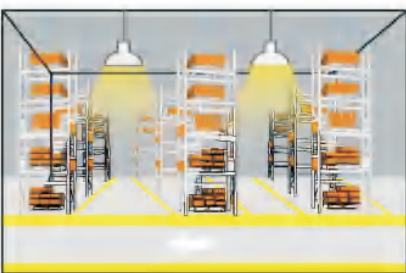


2 With insufficient ambient light, the sensor switches on the light when motion is detected.



3 After elapse of hold time, the sensor switches off the light when no motion is detected.

2) 2-step dimming function (stand-by period be set to "+∞")



1 If there is no motion detected, the light will be remained at a low light level all the time.



2 When motion is detected, the sensor will switch on the light to 100% brightness



3 After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

3) 3-step dimming function (stand-by period be set to "10s/1min/3min/5min/10min/30min")



1 With sufficient ambient light, the light will not be switched on even if with motion signal.



2 With insufficient ambient light, the sensor switches on the light when motion is detected.



3 After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.



4 After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.

Emergency LED Driver

Features:

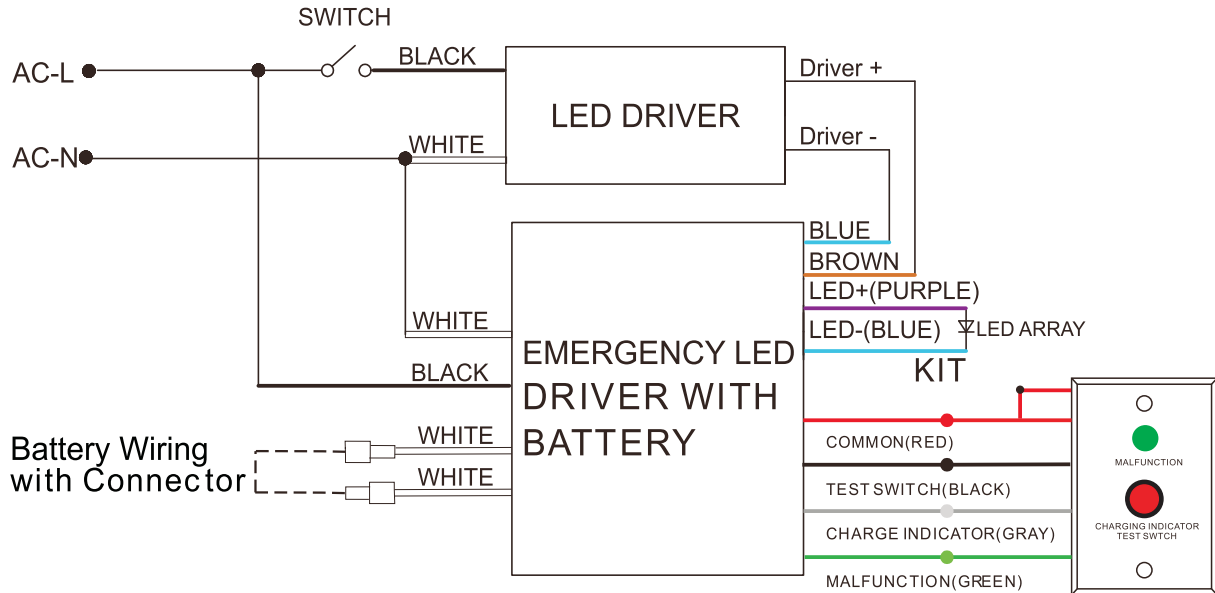
1. Listed for field installation-UL924 and CSA C22.2 NO.141
2. Selectable emergency power 10W,15W,20W.
3. Universal input 100 277Vac.
4. Constant output power Auto sensing output within each range.
5. Output LVLE Compliant
6. Battery protections over voltage protection low voltage protection over temperature protection short circuit protection
7. RoHS compliant



Specifications:

UL Listed For field or factory installation	Universal Input Voltage 100 277Vac 50 60Hz
AC Input Current 100mA max.	AC Input Power Rating 5.5W max.
Output Current and Voltage 416-800mA 25V-48V(Class 2)	Output Power 20W max.
Illumination Time ≥ 90 Minutes	Full Warranty 5 Years
Test Switch Charging Indicator light Low Voltage, illuminated Test Switch	Battery High -Temperature ,Mian tence- Free Ni-MH battery
Battery Charging Current 250mA	Recharge Time ≥24Hours
Temperature Rating (Ambient) 0°C to +50°C (32°F to 122°F)	Dimensions 15"x2.17"x1.3" 382mmx55mmx32mm
Weight 3.4 lbs(1.56kg)	

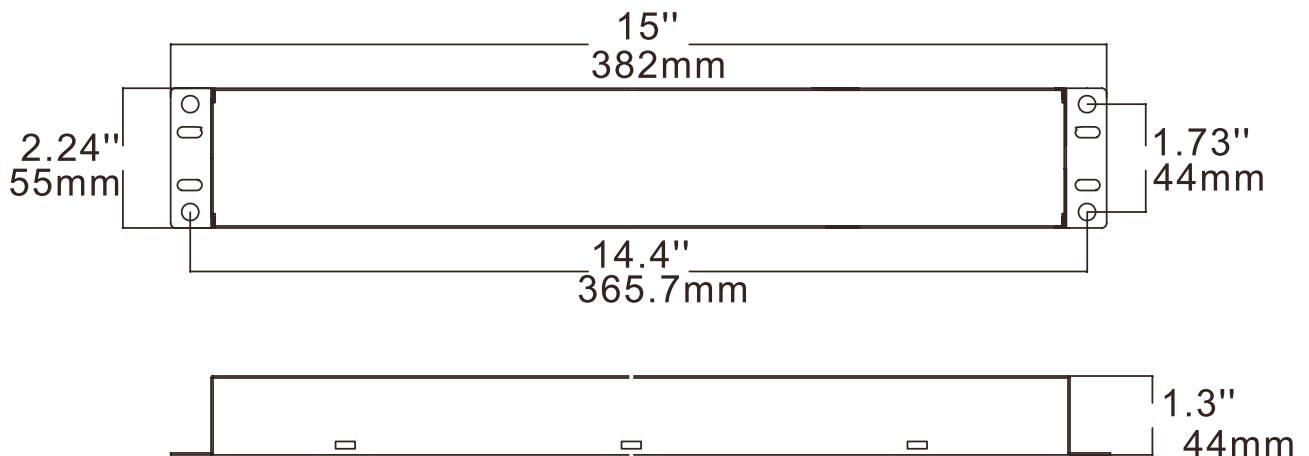
Wiring Diagram:



1. DO NOT MATE CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED.
2. TEST ACCESSORY LEADS-OBSERVE PROPER POLARITY WIRING.

Dimensions:

Case-15"x2.4"x1.3"(mounting center-14.4")



Emergency LED Driver IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED Emergency Backup. Check for enclosed wiring and components.

- Risk of fire or electric shock. This LED Emergency Backup installation requires knowledge of luminaire electrical systems. If not qualified do not attempt installation. Contact a qualified electrician.
- Before installing make certain the AC power to the fixture is off.
- The electrical rating of this product is 100-277Vac. Installer must confirm that there is 100-277Vac at the fixture before installation.
- To prevent electrical shock only mate unit connector after installation is complete and before the AC power to the fixture is back on.
- Do not use outdoors
- This LED Emergency Backup unit requires an unswitched AC power source of 100-277vac, 50/60Hz. The AC driver must be on the same branch circuit as the LED Emergency Backup unit.
- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heaters.
- Do not join battery pack connector until all other wiring is complete and AC power is on.
- Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than its intended use.
- Use with grounded, UL Listed, dry or damp location rated fixtures.

SAVE THESE INSTRUCTIONS

Applications

The BLD-AM20D-480800 emergency driver can be used with most LED loads that have a rated voltage of 25-48Vdc. These emergency driver have been evaluated to and found compliant to UL 924. The emergency pack assembly is accepted as a component of a luminaire where the suitability of the combination shall be determined by UL or Authorities Having Jurisdiction. The as installed performance of the system must meet or exceed all Federal, State, and Local code requirements

Operation

AC Operation: AC power is present. The AC driver operates the LED load as designed. AC LED driver that has an output current not to exceed 4.0 A. The emergency pack is charging in a standby mode. The charging indicator will be lit showing that the battery is charging

Emergency Operation the emergency pack detects the power outage and automatically switches to the emergency mode. The charging indicator will be off. The LED load is illuminated, for a minimum of 90 minutes. When AC power is restored, the emergency pack switches back to Normal Mode and starts re-charging.

Manfunction Mode: When the emergency driver internal circuit without fault and battery normal, The green LED will be lit, When battery disconnected and the emergency driver circuit fault, the green LED off.

Dial switch code selection

Emergency Power			
Power	Voltage	1	2
20W	25-48Vdc	—	—
15W		—	ON
10W		ON	—

NOTE: When the dial switch code 1 and 2 turn off, the emergency power is 20W, 1 turn off and 2 turn on, the emergency power is 15W, 1 turn on and 2 turn off, the emergency power is 10W.

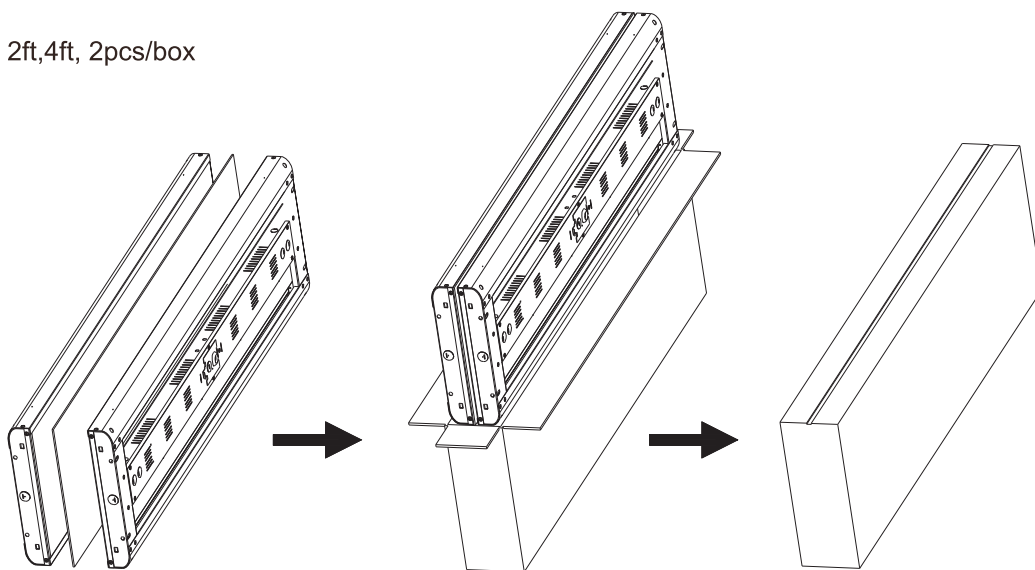
Applicable panel light model P2240XY.

Packing /weight

Part NO.	Outer Carton Size (LxWxH)	Qty/Carton (pcs)	Net weight (lbs)	Gross weight (lbs)	20GP (QTY)	40HQ (QTY)
OW-US-HB2-80W-H	24.41"*4.92"*13.19"	2	7.6Kg/16.72lbs	8.2Kg/18.04lbs	2000	4896
OW-US-HB3-110W-H	(620*125*335mm)					
OW-US-HB5-165W-H	24.41"*4.92"*17.91"	2	9.8Kg/21.56lbs	10.55Kg/23.21lbs	1518	3594
	(620*125*455mm)					
OW-US-HB8-165W-H	46.46"*4.92"*13.19"	2	14.0Kg/30.8lbs	15.1Kg/32.22lbs	1082	2562
	(1180*125*335mm)					
OW-US-HB6-220W-H	24.41"*5.91"*17.91"	2	9.8Kg/21.56lbs	10.55Kg/23.21lbs	1278	3026
	(620*150*455mm)					
OW-US-HB9-225W-H	46.46"*4.92"*13.19"	2	14.0Kg/30.8lbs	15.1Kg/32.22lbs	1082	2562
	(1180*125*335mm)					
OW-US-HB11-320W-H	46.46"*4.92"*17.91"	2	21.0Kg/46.2lbs	22.5Kg/49.5lbs	802	1900
OW-US-HB11-325W-H	(1180*125*455mm)					
OW-US-HB1-110W-HV-H	24.41"*5.91"*13.19"	2	8.4Kg 18.48lbs	9.1Kg/20.02lbs	1724	4080
	(620*150*335mm)					
OW-US-HB4-220W-HV-H	24.41"*6.69"*17.91"	2	10.6Kg/23.32lbs	11.45Kg/25.19lbs	1138	2694
	(620*170*455mm)					
OW-US-HB7-225W-HV-H	46.46"*5.91"*13.19"	2	15.0Kg/33.0lbs	16.5Kg/36.3lbs	912	2160
	(1180*150*335mm)					
OW-US-HB10-320W-HV-H	46.46"*5.91"*17.91"	2	22.5Kg/49.5lbs	24.2Kg/53.24lbs	676	1604
	(1180*150*455mm)					

Packing


2ft,4ft, 2pcs/box



Onward™

T E C H I N C

ONWARD TECH INC.

 Address: 14243 Don Julian Road.
City of Industry CA 91746 USA

 Tel : +1 626-820-9300

 Fax : +1 626-820-9299

 Email : info@onward-tech.com

 Web : www.onward-tech.com

Sunny Opto-electronics Co., Ltd

 Web : www.sunnyled.net.cn

