

INSTALLATION AND OPERATING INSTRUCTIONS FOR:

Input Voltage **BAEM40-HBR-170BC/347**
Output Power **40W**
Output Voltage **170Vdc**



INCLUDED IN THE BOX	QUANTITY
Emergency driver	1
Suspend hook	2
Safety wire	1
Remote controller	1
Wire nuts	8

IMPORTANT SAFEGUARDS

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE OBSERVED INCLUDING THE FOLLOWING:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

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

WARNING: Risk of fire or electric shock. This LED Emergency Driver installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

WARNING: Risk of fire or electric shock LED Emergency Driver is only for use in surface mount or recessed luminaires listed to UL Standards. Suitable for use in damp locations and plenum spaces. Not for use in heated air outlets or hazardous locations.

WARNING: Risk of fire or electric shock. Do not alter, relocate, or remove wiring, lampholders, power supply, or any other electrical component.

WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

WARNING: Do not make or alter any open holes of the wiring enclosure or electrical component enclosure during installation. Only those open holes indicated in the instructions and/or drawings may be added or altered as a result of LED Emergency Driver installation. Do not leave any other open holes in the wiring enclosure or electrical component enclosure during installation.

CAUTION: Before installing, make certain the AC power to the fixture is off.

CAUTION: The electrical rating of this product is 100-277V Or 100-347V. Installer must conform that there is 100-277V or 100-347V at the fixture before installation.

CAUTION: Battery need charging when over 6 month storage .

CAUTION: To prevent electrical shock, only mate unit connector after installation is complete and before the AC power to the fixture is back on.

CAUTION: This fixture provides more than one power supply output source. To prevent electrical shock, disconnect both normal and emergency sources by turning off the AC branch circuit and disconnecting the unit connector.

CAUTION: This is a sealed unit. Components are not replaceable. Replace the entire LED Emergency Driver unit when necessary

Do not use outdoors.

Do not let power supply cords touch hot surfaces.

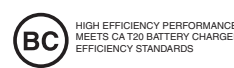
Do not mount near gas or electric heaters.

Equipment should be mounted in locations and at heights where it will not readily 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 intended use.

CAUTION: In all installations, the Em wires labeled dim driver+, dim dimmer+ dim- must be connected to fixture 0-10 wires before power is restored. If for non dimming fixtures use wire nut cover unused wires before power restored.

SAVE THESE INSTRUCTIONS



PREVENTING MALFUNCTION AND DAMAGE TO EM DRIVER UNIT

Before restoring power:

The "DIM- (Pink) Dim+(dimmer orange) Dim+(driver purple)" wires from the Emergency driver must be connected Luminaries 0-10V dimming. If for non dimming fixture use wire nut cover unused wires before power restored.

NOTE: The emergency driver can not use on non-dimmable(0-10v) fixtures when EM driver wattage less than fixtures wattage, please check below wattage choose chart. If the above is not properly done, and if the power is restored to the EBB, then some of the components will get hot and lead to early failure. This is not covered by warranty.

HOW TO CHOOSE WATTAGE

Function	Fixtures wattage	40W
0-10V DIMMING	80-150W HIGHBAY	✓
	150-300W HIGHBAY	✓

INDICATOR OPERATION

Model	Test switch operation	Indicator Status	Comment&Solutions
AC ON	No Pressed	ON (NO flashing)	EM is charging
AC ON	Pressed on	2 second on and 2second off	EM is discharging, after 30 seconds back to AC mode
AC ON	Pressed twice(2s)in seconds	2 second on and 2second off	EM is operate long time discharging until battery be full discharged, then back to AC charging mode.
AC OFF		2 second on and 2second off	switches to emergency mode and operates the existing fixture to 90 minutes until full discharge
AC OFF	When EM is discharging ,press test switch ,em will stop discharge .Need AC on activate whole fixture.		
Failure	When indicator flash faster, or going off, the EM back up maybe have compatible problems or can not work.		

INSTALLATION

1. Read and understand all warning and notes stated above, before proceeding with installation.

The weight of LED luminaire should not exceed 20kgs.

The sling chains could carry goods with weight more than 80kg and smaller than 100kg.

Before wiring, make sure safety rope is securely locked.

During assembling, make sure all screws are securely locked.

2. Fixture Compatibility & Applications

The EM series emergency driver can be used with LED drivers that are rated for 100-347VAC. Verify that the LED driver can accept AC voltage requirement between 100-347VAC. The voltage input to the dimmable wires (DIM+, DIM-) of the emergency LED driver must be less than 20Vdc.

Specification Chart

Rated Output Power	Nominal Lumen Output*
40W (Constant)	4000 Lumens

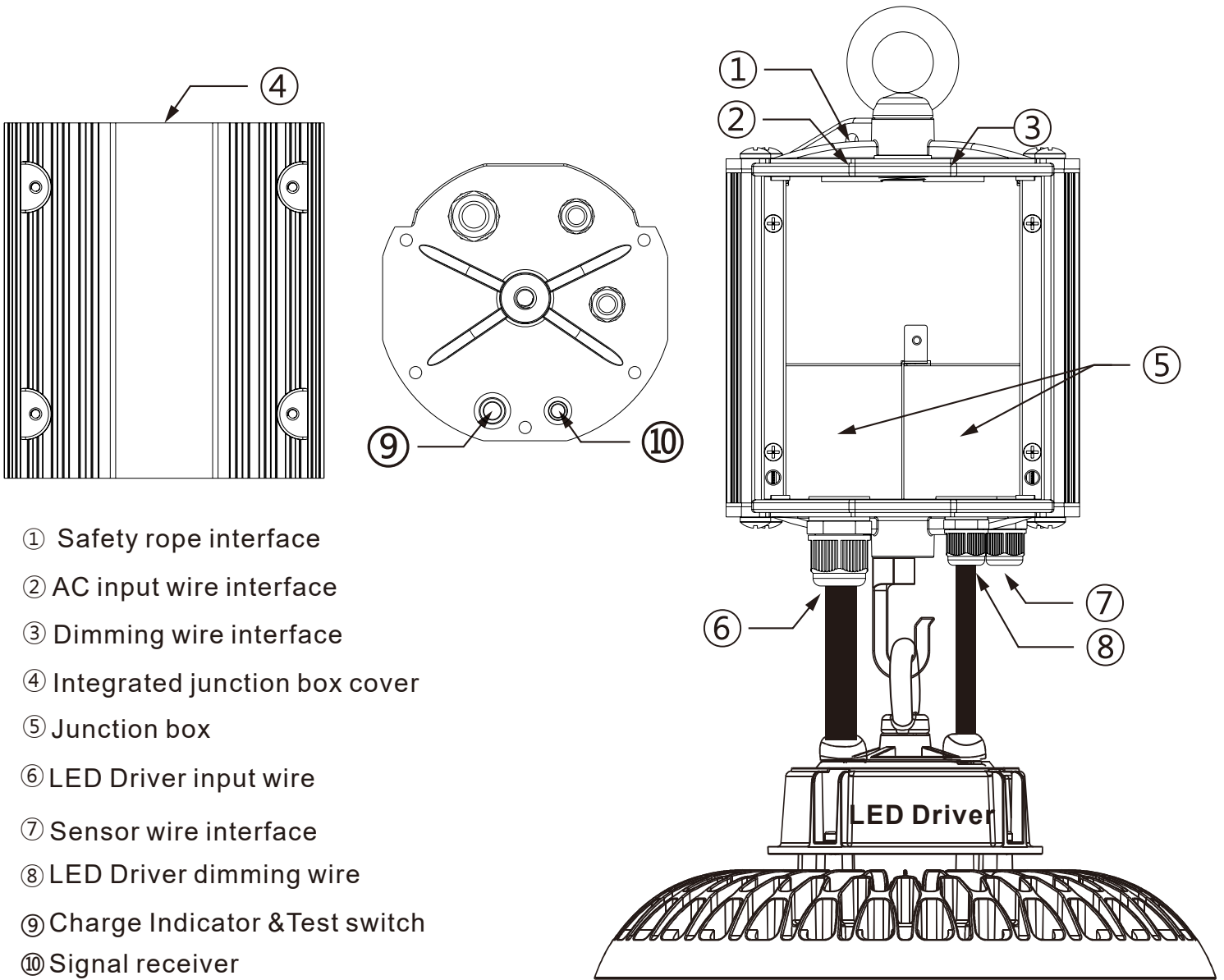
* Nominal lumen output is based on a standard LED fixture rated efficacy (lumens per watt, lm/w) of 100 lm/w.

Multiply lm/w by Rated Output Power of emergency pack to determine lumen output of fixture during emergency operation. To calculate actual minimum lumen output of fixture under emergency operation:

a. Determine the fixture efficacy under normal AC operation, based on fixture manufacturer published data, in lumens per watt (lm/w).

1. Reference DLC QPL (www.designlights.org) for rated data on fixture efficacy. If fixture is not found on DLC QPL, contact fixture manufacturer.

b. Multiply fixture lm/w by rated output power of emergency pack. (Example: 100 lm/w x 15W = 1500 lumens.)



- ① Safety rope interface
- ② AC input wire interface
- ③ Dimming wire interface
- ④ Integrated junction box cover
- ⑤ Junction box
- ⑥ LED Driver input wire
- ⑦ Sensor wire interface
- ⑧ LED Driver dimming wire
- ⑨ Charge Indicator & Test switch
- ⑩ Signal receiver

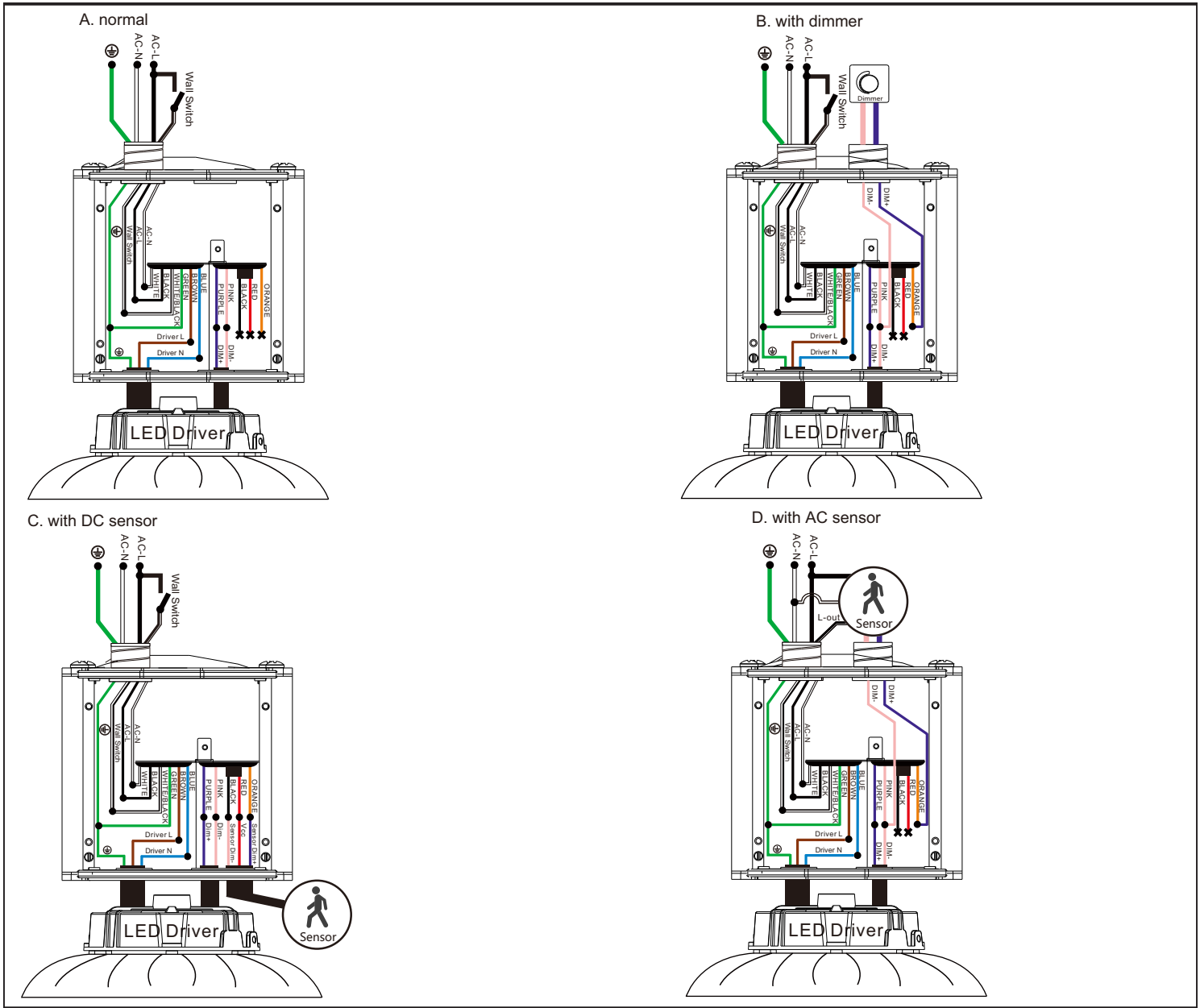
Remote Controller

For the convenience of manual diagnosis, remote controller is an option to replace pressing indicator test switch by hands.

Model	Remote	Indicator Status	Comment&Solutions
AC ON	Press A	2 second on and 2second off	EM is discharging,after 30 seconds back to AC mode
AC ON	Press B	2 second on and 2second off	EM is operate long time discharging until batterybe full discharged,then back to AC charging mode.
AC OFF		2 second on and 2second off	Automatic going to emergency mode and operates the existing fixture to 90 minutes until full discharge
AC OFF	When EM is discharging ,press A,emergency driver will stop discharge .Need AC on activate whole fixture.		
Failure	When indicator flash faster,or going off,the bettery back up maybe have compatible problems or can not work.		

4. Wiring

Complete wiring as indicated on the next page (see Figure 1). Install in accordance with National Electric Code. Emergency driver and AC Driver must be on the same branch circuit. Ensure hot / live lead going to the black wire on the Emergency LED driver is Un-Switched. When used with switched fixtures, the emergency driver must be wired ahead of the switch.



5. Self-Diagnostic

The integrated self-diagnostic circuitry will automatically conduct monthly 30-second and annual 90-minute tests to verify proper emergency capability per Life Safety Code requirements. Press the test button on the wireless remote to cut the power to the AC driver and switch the system to emergency mode. Press the test button again to return to normal mode. Switch off the circuit breaker to simulate a full power outage.






NFPA 101, Life Safety Code outlines the following schedule:

Monthly Testing - Ensure that the test button light is illuminated. Conduct a 30 second discharge test by depressing the test button. The LED load should operate at reduced output.

Annual Testing - Ensure that the test button is illuminated. Conduct a full 90 minute discharge test. The unit should operate as intended for the duration of the test.

“Written records of the testing shall be kept by the owner for inspection by the authority having jurisdiction.”

Accessories

	Name	Pictures	Qty	Remark
1	Fisheye Bolts		1pcs	
2	Fisheye Bolts		1pcs	
3	Stainless Steel Safety Rope		1pcs	
4	Wireless Remote (Optional)		1pcs	
5	user manual		1pcs	
6	Nut cap		8pcs	