RDA LIGHTING®

RHB1S-LED
LED Round Highbay

Color Selectable

Lumen Adjustable

IDEAL APPLICATIONS

✓ Warehouses ✓ Factories ✓ Gyms ✓ Industrial Applications

DESCRIPTION:

The Round Highbay provides optimal widespread illumination ideal for warehouses, factories, gyms and other highbay applications. This fixture is color selectable and lumen adjustable.

FEATURES:

- Color Selectable fixture allows Installer to choose between 4000K/5000K at the time of installation.
- The Lumen adjustable fixture allows installer to select between 3 wattage settings:
  RHB1S-LED100A60 - 100W/80W/60W
  RHB1S-LED150A100 - 150W/120W/100W
- Ruggedly designed with die cast aluminum body and polycarbonate lens.
- Easy to install with mounting hook and 2 meter cord for line voltage and 0.5 meter cord for 0 -10V Dimming.
- Suspended, pendant or yoke mounted. Junction box for pendant mounting and Yoke sold separately.
- Accessories include Aluminum Reflector, Yoke, PC reflectors, PC Reflector Cover, Wire Guard, M10 to 1/2" or / 3/4" Adaptor with Junction Box, Motion Sensor and Remote Control.
- Optional motion sensor that can be easily connected without the need for extra wiring.

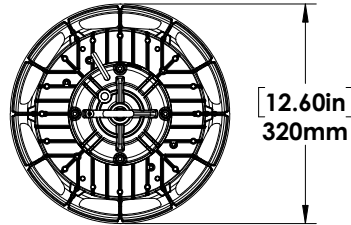| SPECIFICATIONS	RHB1S-LED100A60	RHB1S-LED150A100
Watts (W)	99.9	150.4
Lumens (Maximum)	14300.6	21827
Efficacy (Lm/W)	143.2	145.1
Color Temp	VK - Color Selectable (4K,5K)*	
Voltage	120-277V*	120-277V* 480V
CRI	85	
THD	15%	
Dimming	0-10V Dimming (Range: 10%-100%)*	
PF	0.9	
LED Life @ 100,000 Hours	81%	
Beam Distribution	90 Degrees	
Finish	Matte Black*	
Housing Details	Die Cast Aluminum	
Lens Details	Clear PC Lens	
Mounting	Pendant, Suspended*, Yoke	
Operating Temp.	"Without Motion Sensor: -40ºC to 50ºC With Motion Sensor: -30ºC to 50ºC"	
Certifications	UL, Wet Location, IP65, 3G	
Options Sold Separately	"Yoke, Junction box with adapter, Wire guard, Polycarbonate/Aluminum Reflectors and Cover, DC Microwave Motion Sensor and Remote, Emergency Battery Back Up"	

* Standard Configuration
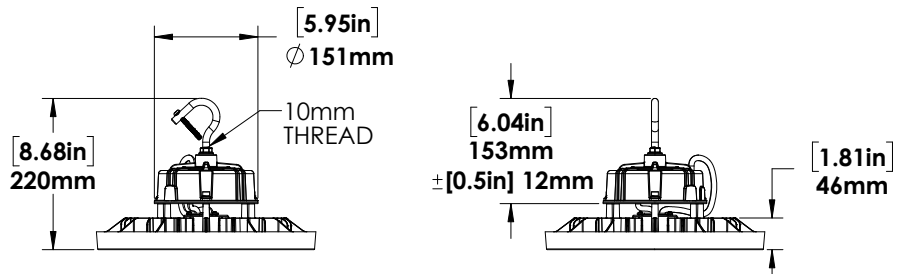Note: For lumen outputs at other wattage settings, please view Lumen Adjustable Settings table on page 6.

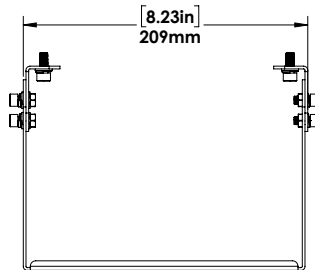3G VIBRATION TESTED IP65 RATED APPROVED FOR WET LOCATION 5 YEAR WARRANTY DLC DLC PREMIUM UL CERTIFIED SAFETY US/CA E361278

DIMENSIONS:

TOP VIEW

FIXTURE DIMENSIONS

SIDE VIEW

YOKE

TOP VIEW

SIDE VIEW

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DIMENSIONS:

SIDE VIEW

$\left[8.12\text{in}\right]$
$\varnothing$ 206mm

$\left[4.33\text{in}\right]$
110mm

FIXTURE DIMENSIONS WITH BATTERY BACK UP KIT

$\left[16.25\text{in}\right]$
$\approx$ 413mm

$\left[5.84\text{in}\right]$
148mm
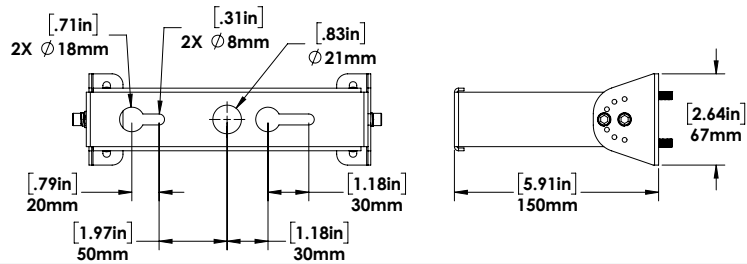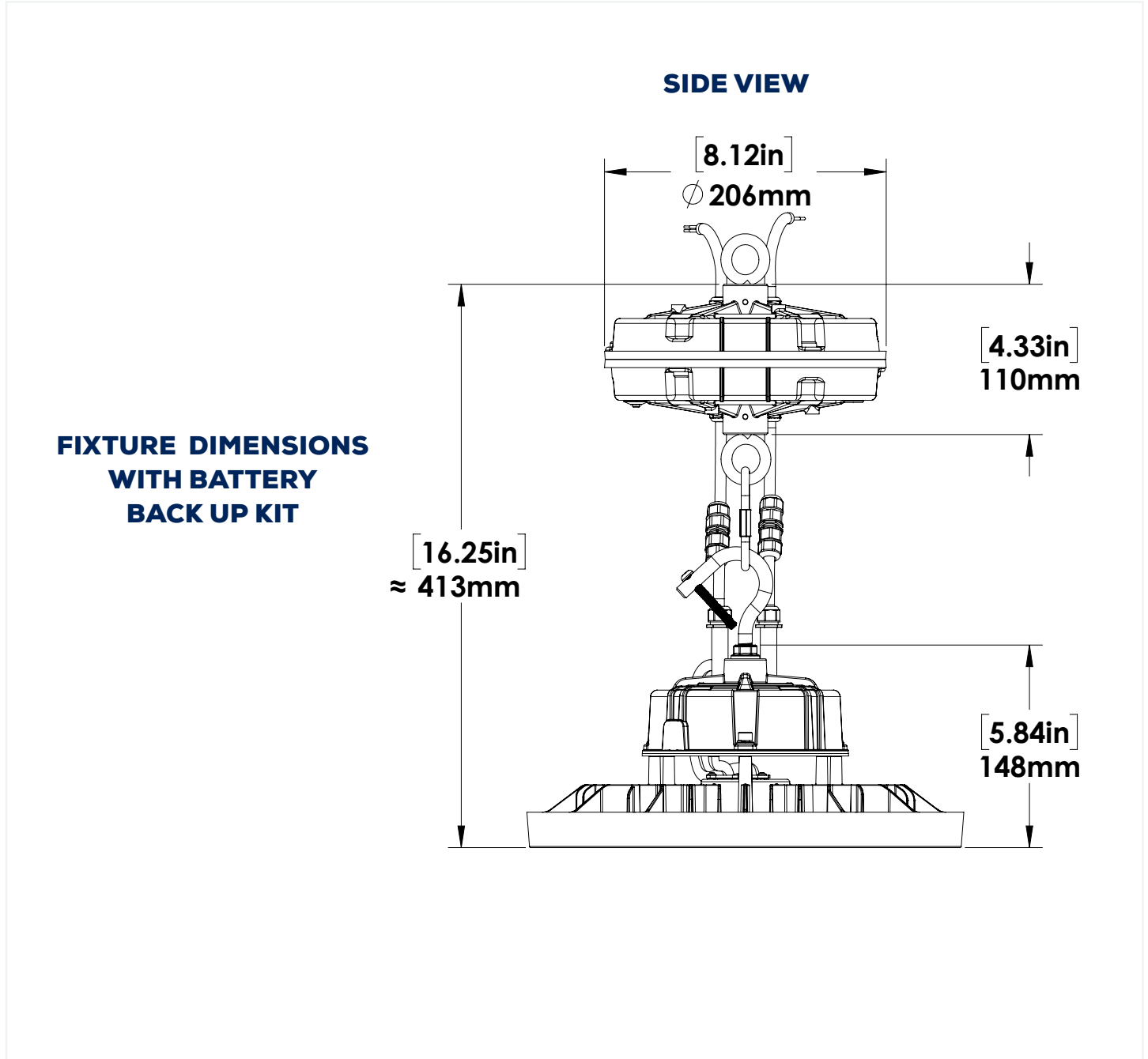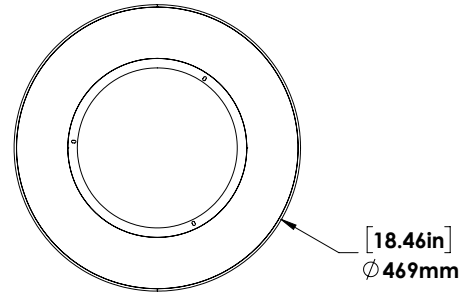
DIMENSIONS:

ALUMINUM REFLECTOR

TOP VIEW

[18.46in]
⌀ 469mm

SIDE VIEW

[6.00in]
152mm
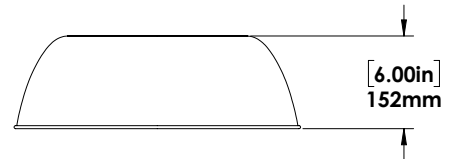
**PC REFLECTOR
(CLEAR PRISMATIC)**

TOP VIEW

[16.29in]
⌀ 414mm

SIDE VIEW

[5.59in]
142mm
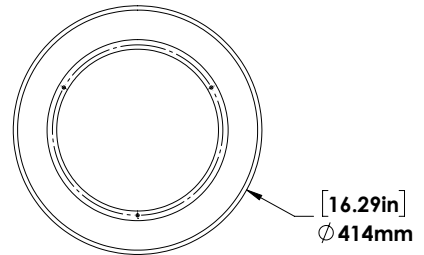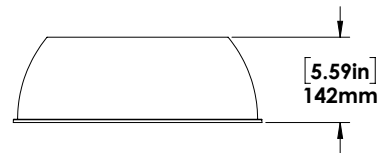
**PC REFLECTOR
COVER
(CLEAR PRISMATIC)**

SIDE VIEW

[1.67in]
42mm

TOP VIEW

[16.34in]
⌀ 415mm

DIMENSIONS:

SIDE VIEW

$\left[1.10in\right]$ 28mm

WIRE GUARD

TOP VIEW

$\left[10.20in\right]$ ⌀ 259mm

TOP VIEW

1/2" or 3/4" NPT

$\left[5.91in\right]$ 150mm

$\left[.59in\right]$ 15mm

$\left[1.26in\right]$ ⌀ 32mm

$\left[4.74in\right]$ 120mm

$\left[1.56in\right]$ 40mm

$\left[3.15in\right]$ 80mm

⌀ 10mm or ⌀ 12mm

$\left[.83in\right]$ 8X ⌀ 21mm KNOCKOUT
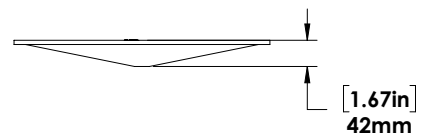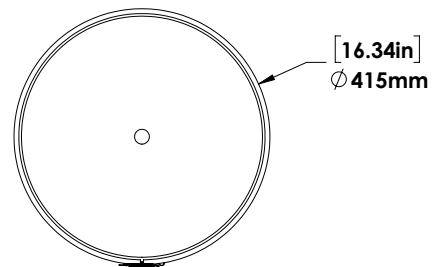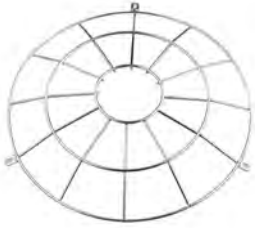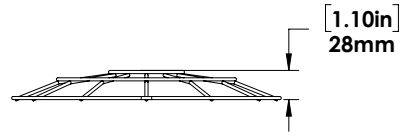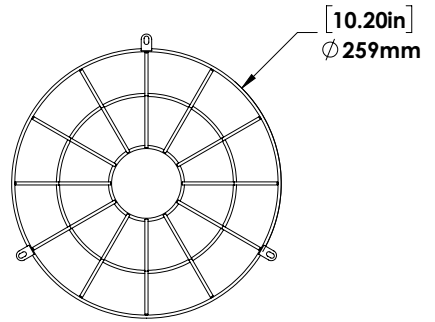
JUNCTION BOX WITH 1/2 OR 3/4 NPT ADAPTER
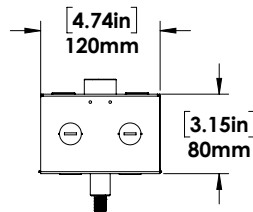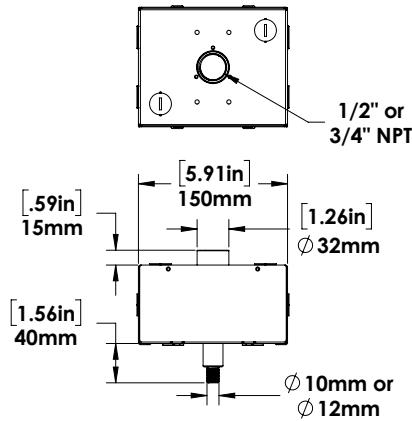
SIDE VIEW
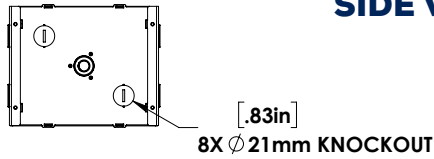
DIMMING WIRE ACCESSIBILITY:

Dimming wire free
to use (Capped
when not in use)

2 meter
power cord

DIMMING WIRE ACCESSIBLE FOR WALL SWITCH WITHOUT THE NEED OF OPENING THE FIXTURE OR CUTTING THE CABLE

Socket for
field installed
motion sensor

AMPERAGE DRAW & SURGE PROTECTION

| | CURRENT (A) | | | | | SURGE PROTECTION | |
	120V	208V	240V	277V	480V	120-277V	480V
RHB1S-LED100A60	0.88A	0.51A	0.44A	0.38A	0.22A	6kV	4kV
RHB1S-LED150A100	1.32A	0.76A	0.66A	0.57A	0.33A		

LUMEN ADJUSTABLE SETTINGS

RHB1S-LED100A60			
WATTS	60W	80W	100W
LUMENS	8591	11454	14301

RHB1S-LED150A100			
WATTS	100W	120W	150W
LUMENS	14510	17412	21827

WEIGHT (LBS)

RHB1S-LED100A60	6.39
RHB1S-LED150A100	

LUMEN MAINTENANCE

	50,000 HRS	75,000 HRS	100,000 HRS
RHB1S-LED100A60	90.3%	85.7%	81.4%
RHB1S-LED150A100	90.3%	85.7%	81.4%

SPECIFICATIONS

Model Number	Voltage (V)	Power (W)	Light Output (lm)	Efficacy (lm/W)	THD (%)	PF	CCT (K)
RHB1S-LED100A60-B-VK-BLK-DIM-PCL	120-277	100	14301	143.2	15.0	0.900	4000/5000
RHB1S-LED150A100-B-VK-BLK-DIM-PCL	120-277	150	21827	145.1	15.0	0.900	4000/5000
RHB1S-LED150A100-L-VK-BLK-DIM-PCL	480	153	21616	141.2	15.0	0.900	4000/5000

RHB1S-LED100A60-B-VK-DIM (100WATT 4000K)
MOUNTED AT 15 FEET

Total Lumens = 15351   Mounting 15 Feet   Maximum Calculated Value = 34.79 Fc
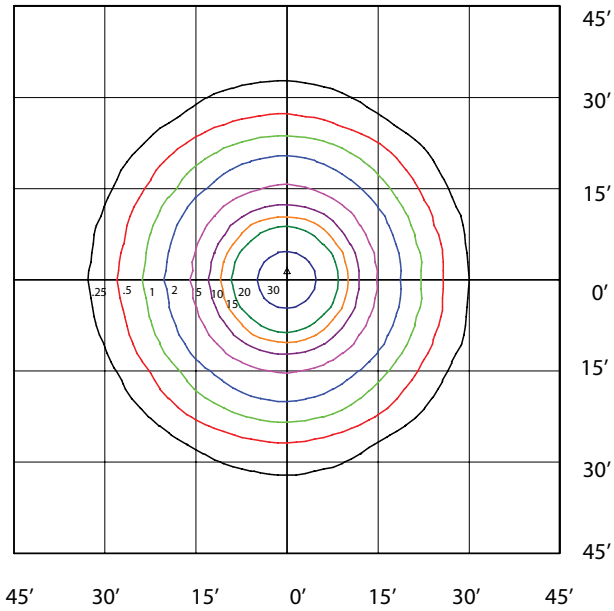
RHB1S-LED150A100-B-VK-DIM (150WATT 4000K)
MOUNTED AT 20 FEET

Total Lumens = 20899   Mounting 20 Feet   Maximum Calculated Value = 26.58 Fc
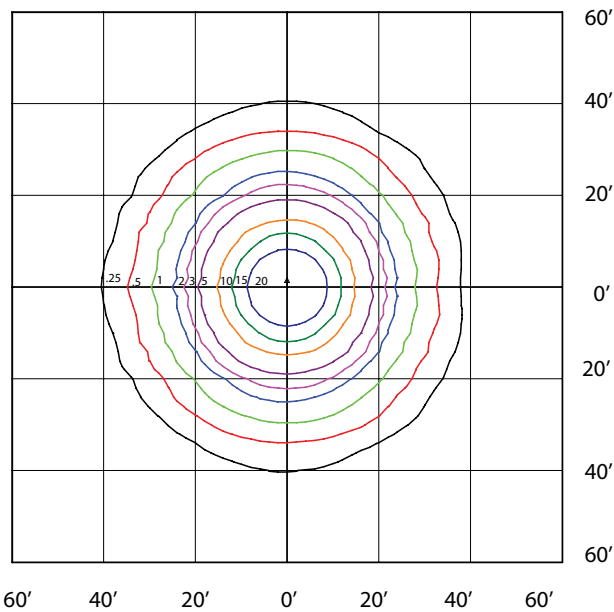
RHB1S/RHB2S DC MOTION SENSOR SETTINGS

SENSOR SPECIFICATIONS

SPECIFICATIONS	
Operating Voltage	12V DC
Operating Current	30mA
Output	0-10V DC
Stand-by Power	0.5W
Frequency	5.8GHz +/-75MHz
IP Rating	IP65
Detection Angle	30° - 150°
Mounting Height	Max 15m (50ft)
Brightness	70%/80%/90%/100%
Sensitivity	20%/50%/75%/100%
Hold time	10s/1min/10min/30min
Daylight threshold	10Lux/30Lux/50Lux/100Lux/Disabled
Stand-by time	1min/30min/60min/+∞
Stand-by Dimming Level	10%/20%/30%/50%

DEFAULT SETTINGS	
Brightness	70%
Sensitivity	20%
Hold time	10s
Daylight threshold	Disabled
Stand-by time	+ ∞
Stand-by Dimming Level	10%

SENSOR DETECTION RANGE (M)

Well Covered

Covered
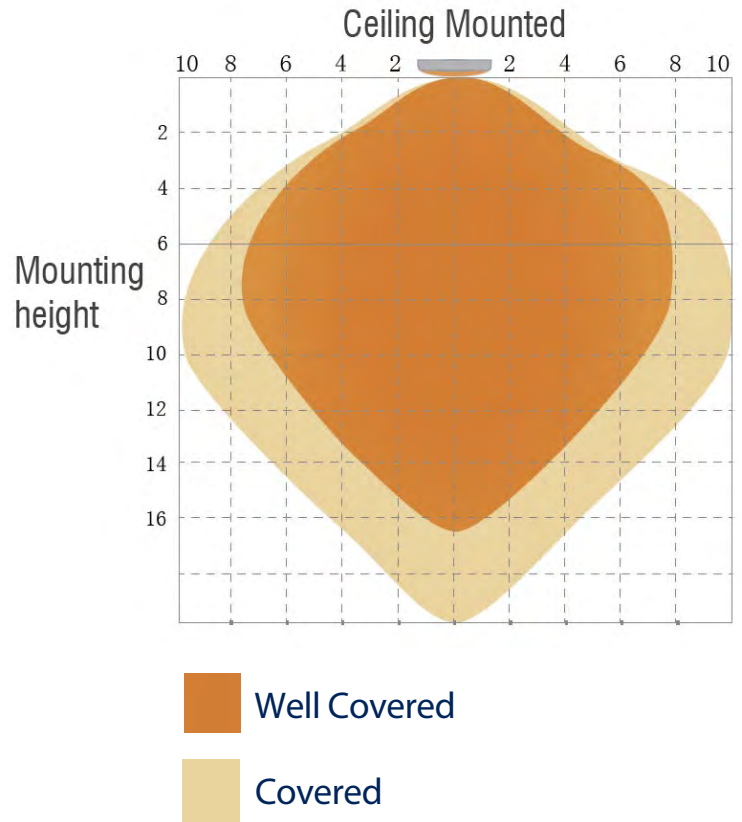
RHB1S/RHB2S DC MOTION SENSOR REMOTE CONTROL

SPECIFICATIONS	
BUTTON	**FUNCTION**
ON/OFF	Long press until the brightness indicator light is on. Then press to permanently turn on and off the fixture.
BRIGHTNESS	Sets the highest light fixture brightness when motion is detected.
SEND	Uploads the selected remote-control parameters to the light fixture sensor.
HOLD TIME	The time the light fixture will remain at the brightness setting after it detects motion.
STAND-BY DIM	The Dim level that the light fixture will dim down after the Hold Time has expired.
STAND-BY TIME	The time the light fixture will remain in the Stand-by dim state before it shuts off. To disable the light from shutting off, select the INFINITY icon.
SENSITIVITY	Sets the sensitivity to which the sensor will detect motion.
DAYLIGHT	The lux setting that the light fixture will turn on/off. If the ambient lux is more than the defined lux setting, the fixture & sensor function will turn off and remain off until the ambient lux is below the setting. Long press until the daylight indicator light is on. Then press to select the desired lux setting.
RESET	Resets the light fixture sensor parameters to the default settings.
- / +	Press to increase or decrease brightness from 0% to 100%.
TEST	Press to test the sensor (hold time is only 3s).

TOP SECTION:
Settings Display Area

Bottom Section:
Button Setting Area

LED EMERGENCY DRIVER

TECHNICAL DATA

ITEM	DATA
Rated Input Voltage	100-277 VAC, 50-60Hz
Input Current	40-150mA
Input Power	8.5W max
Power Factor	0.6 @ 100VAC
Output Wire L - out N - out (LED load input)	AC 6A Max, 40W
Output Voltage Range	DC 120-200V
Max Output Voltage	250V
Battery Pack Voltage/Capacity	LiFePO4 12.8V 6600mAh, 84.48 Wh
Recharge Current	0-500mA
Recharge Time	24 Hours
Discharge Time	90 Minutes
Max. Casing Temperature tc.	70℃

PROTECTIONS

- Input over current protection.
- Output over voltage protection.
- Output under current protection.
- Output short circuit protection (Emergency Mode).

WARNINGS

- It is only used for 1-10V dimmable <300W lighting fixtures.
- Please check and confirm all the data and usage surrounding before installation.
- Damp or wet location.
- Please keep it away from any flammable materials with a place of good heat dissipation.
- Please charge the battery consistently for >24 hours for the first time usage to activate the whole battery cells of discharging/charging duration.

REMOTE CONTROL

- If you press the TEST button once, the system will go into discharging mode for 5 seconds then returns to charging mode.
- If you press H-T (Hold test button), the system will go into charging mode and will keep discharging. By pressing it again, the system will stop discharging and go back into working mode.
- The Max remote control distance is 15 meters.

TEST SWITCH

- Emergency conversion Kit will go into emergency mode if test switch is pressed when main supply is on, while it will go into charging mode if test switch is not pressed.
- In emergency mode, press the test switch for 3 seconds to turn off the current emergency state.

LED INDICATOR

- Red stable: charging mode or charging full.
- Red off: main power off or discharging.

ORDERING GUIDE:

RHB1S-LED			VK	BLK	DIM	PCL
Wattage	Voltage		Color Temp.	Finish	Dimming	Lens
LED100A60**	B - 120-277V*		VK-Color Selectable (4K/5K)*	BLK - Matte Black*	DIM - 0-10V Dimming*	PCL - Polycarbonate Lens*
LED150A100	L - 480V					

WATTAGE MAPPING TABLE	
100A60	60W/80W/100W
150A100	100W/120W/150W

* Standard Configuration
**Only available in B voltage.

Ordering Guide For Accessories
Check the items that you wish to order:

- [ ] 051974   RHB1/RHB1S YOKE BLK
- [ ] 052296   RHB1S/RHB2S/RHB3S JUNCTION BOX PENDANT KIT
- [ ] 052297   RHB1S ALUMINUM REFLECTOR
- [ ] 052299   RHB1S POLYCARBONATE REFLECTOR
- [ ] 052300   RHB1S POLYCARBONATE REFLECTOR COVER
- [ ] 052303   RHB1S STEEL WIRE GUARD
- [ ] 052305   RHB1S/RHB2S DC MOTION SENSOR
- [ ] 052306   RHB1S/RHB2S DC MOTION SENSOR REMOTE CONTROL
- [ ] 002329   RHB 40W 120-277V LED EMERGENCY BATTERY BACKUP