English

INTEGRITY LED

LED THERMOGUARD UFO HIGH BAY WITH Q-BASE

UHG series

▸ **DESIGN** - The LED THERMOGUARD UFO HIGH BAY WITH Q-BASE STANDARD SERIES delivers dependable performance and standard efficiency at 170 lm/W- perfect for commercial and industrial applications. Its robust die-cast aluminum housing and anti-glare PC lens provide exceptional durability and efficient heat dissipation. Engineered for extreme environments, the fixture offers outstanding heat resistance and operates reliably in temperatures ranging from -40°F to 149°F. With an IP69K rating for superior protection against dust and high-pressure water, 0-10V dimming, and 6kV surge protection, this high bay is built to deliver lasting, high-performance illumination in even the toughest conditions.

▸ **THERMOGUARD** - Engineered for extreme thermal conditions, the ThermoGuard design ensures reliable operation across a wide temperature range from -40°F to 149°F. Its superior heat management prevents performance degradation, extending the lifespan of both LEDs and internal components- making it an ideal choice for high-temperature industrial environments.

▸ **COLOR AND POWER SELECTABLE** - You can choose either a 3000K neutral white, 4000K cool white or 5000K daylight color temperature, and change the power with a simple switch.

▸ **INSTALLATION** - This fixture has three different mounting options: suspended, surface, and pendant. It comes with 10 ft cord. Perfect commercial or industrial solution for warehouses, supermarkets, retail stores, gyms, and many other applications.

▸ **ADVANTAGES** - With calculated lifespan up to 74 000 hours, these fixtures are made to last decades under normal operation! Integrity LED provides a 5-year limited warranty along with UL and DLC Premium certifications to guarantee top quality products and safety!



up to 149°F | Wet location | IP69K

Finish: Black

PRODUCT PRESENTATION:

Model	Power	Sensor base	Voltage	Dimming	Lumens	CCT	Finish	Dimensions	Certification
IL-UHG-ST-200BK	100/150/200 W	3-pin	120-277V	0-10V	32,132lm	3,000/4,000/5,000 K	Black	15-3/8" x 15-3/8" x 7-3/4"	UL(E473804),DLC Premium
IL-UHG-ST-240BK	150/200/240W	3-pin	120-277V	0-10V	37,196lm	3,000/4,000/5,000 K	Black	15-3/8" x 15-3/8" x 7-3/4"	UL(E473804),DLC Premium

For detailed luminous flux information please refer to Annex 1, page 2.

ORDERING INFORMATION

Model	Product dimensions	Weight	Pcs. per carton	Carton size	Carton weight	UPC
IL-UHG-ST-200BK	15-3/8" x 15-3/8" x 7-3/4"	7.5 lbs(3.4kg)	1	16.26" x 16.26" x 7.72"	10.0 lbs	81019020258
IL-UHG-ST-240BK	15-3/8" x 15-3/8" x 7-3/4"	7.6 lbs(3.5kg)	1	16.26" x 16.26" x 7.72"	10.1 lbs	81019020374

ACCESSORIES:

Product description	Model	Product dimensions	Pcs. in middle box	Middle box size	Middle box weight	Pcs. per carton	Carton size	Carton weight	UPC	GTIN 14 in middle box	GTIN 14 in carton
Remote Control for Motion Sensor	IL-06RC	5-11/16" x 1-3/4" x 13/16"	10	6.3" x 2.9" x 11.4"	0.5 lbs	60	15.75" x 11.81" x 9.29"	24.7 lbs	81012811437	30810128114371	40810128114378
Infrared Motion Sensor	IL-09IR50-WH	2-1/8" x 2-1/8" x 1-11/16"	10	5.5" x 2.6" x 11.4"	1.2 lbs	120	17.32" x 11.81" x 11.02"	10.7 lbs	81012811679	10810128116791	20810128116798
	IL-09IR-BK	2-1/8" x 2-1/8" x 1-11/16"	10	5.5" x 2.6" x 11.4"	1.2 lbs	120	17.32" x 11.81" x 11.02"	12.1 lbs	81012811434	20810128114343	30810128114340
	IL-09IR-WH	2-1/8" x 2-1/8" x 1-11/16"	10	5.5" x 2.6" x 11.4"	1.2 lbs	120	17.32" x 11.81" x 11.02"	12.1 lbs	81012811369	20810128113698	30810128113695
Microwave Motion Sensor	IL-09MW-BK	2-1/8" x 2-1/8" x 1-5/16"	10	5.5" x 2.6" x 11.4"	1.2 lbs	120	17.32" x 11.81" x 11.02"	12.1 lbs	81012811371	20810128113711	30810128113718
	IL-09MW-WH	2-1/8" x 2-1/8" x 1-5/16"	10	5.5" x 2.6" x 11.4"	1.2 lbs	120	17.32" x 11.81" x 11.02"	12.1 lbs	81012811370	20810128113704	30810128113701
Battery back-up kit 40W	BLD-RM40R	15-11/16" x 15-11/16" x 5-9/16"	-	-	-	4	23.6" x 13.8" x 7.9"	32.5 lbs	81005073850	-	20810050738501
Battery back-up kit 60W	BLD-RM60R	15-11/16" x 5-3/4" x 5-3/4"	-	-	-	4	23.6" x 13.8" x 7.9"	37.7 lbs	81012811215	-	20810128112158
Spring hook M10	IL-H-M10	3-5/16" x 2-1/16" x 7/8"	-	-	-	50	12.6" x 7.7" x 6.9"	12.1 lbs	81920102531	-	20819201025316
Screw-bolt hook M10	IL-HS-M10	3-7/8" x 1-5/8" x 1-5/16"	-	-	-	50	11.4" x 11.4" x 8.3"	12.6 lbs	81005073116	-	10810050731161
Pendant mount bracket	IL-PMB-UHB	2-3/8" x 1-9/16" x 2-13/16"	-	-	-	50	13.9" x 9.7" x 7.1"	33.7 lbs	81005073152	-	10810050731529
Pendant mount bracket with j-box and spring hook	IL-PMBJB-UHB	4-3/4" x 5-1/16" x 7-3/16"	-	-	-	40	17.7" x 11.4" x 21.3"	34.4 lbs	81005073699	-	20810050736996

For the most up-to-date spec sheets, visit integrityled.info

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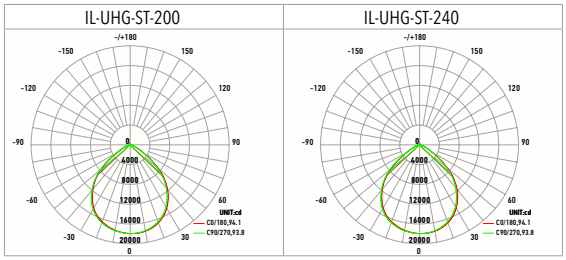
TECHNICAL PARAMETERS:

Model	Max input current	Inrush current	Work environment	Operating temperature	Power factor	Beam angle	Surge protection	Housing	Lens	CRI
IL-UHG-ST-200BK	2.2A	100A	Wet location	-40°F to 149°F(-40°C to 65°C)	>0,9	90°	6kV	ADC12	PC	>80
IL-UHG-ST-240BK	2.57A	100A	Wet location	-40°F to 149°F(-40°C to 65°C)	>0,9	90°	6kV	ADC12	PC	>80

DIMMING COMPATIBLE CONTROLS:

Brand	Leviton	Lutron	Legrand
Models	DS710	NTSTV-DV	H4FBL3PW
	IP710	DVSTV	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM:



ANNEX 1

Model	Watts	3,000K	4,000K	5,000K
IL-UHG-ST-200BK	100 W	16,428 lm	17,048 lm	17,262 lm
	150 W	23,985 lm	25,153 lm	24,754 lm
	200 W	31,408 lm	33,007 lm	32,132 lm
IL-UHG-ST-240BK	150W	26,067 lm	27,037 lm	26,987 lm
	200W	32,753 lm	33,221 lm	34,008 lm
	240W	35,896 lm	37,778 lm	37,196 lm

PACKAGE CONTENTS:

Description	Quantity
LED UFO High Bay with Q-Base	1
Mounting ring (A)	1
Box	1



ACCESSORIES (sold separately):

Microwave motion sensor 3pin
IL-09MW



Infrared motion sensor 3pin
IL-09IR



Infrared motion sensor 3pin 50ft
IL-09IR50



Remote control for motion sensor
IL-06RC



Battery back-up kit

40W
BLD-RM40R



60W
BLD-RM60R





Remote test switch for battery back-up kit
RN1

Spring hook
IL-H-M10



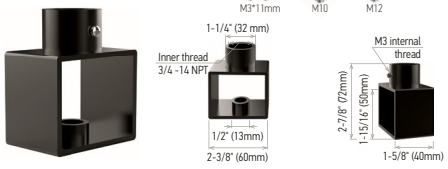
Pendant mount bracket with j-box and spring hook
IL-PMBJB-UHB



Screw-bolt hook
IL-HS-M10



Pendant mount bracket
IL-PMB-UHB



ACCESSORY COMPATIBILITY LIST:

Accessories \ Models	IL-UHG-ST-200	IL-UHG-ST-240
motion sensor 3pin IL-09MW	•	•
r 3pin IL-09IR; IL-09IR50	•	•
Battery back-up kit 40W BLD-RM40R	•	•
Battery back-up kit 60W BLD-RM60R	•	•
Spring hook M10 IL-H-M10	•	•
Screw-bolt hook M10 IL-HS-M10	•	•
Pendant mount bracket IL-PMB-UHB	•	•
Pendant mount bracket with j-box and spring hook IL-PMBJB-UHB	•	•

Note: To check the compatibility of the Battery Back-up Kits and Motion Sensors, please refer to BATTERY BACK-UP KITS & MOTION SENSORS COMPATIBILITY LIST.

BATTERY BACK-UP KITS & MOTION SENSORS COMPATIBILITY LIST:

Battery back-up \ Motion sensor	IL-09IR	IL-09IR50	IL-09MW
BLD-RM40R	●	●	●
BLD-RM60R	●	●	●

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MOTION SENSOR INFORMATION



IL-09MW
Microwa nsor 3pin

+



IL-06RC
R ol



IL-09IR
Infrared sor 3pin

+



IL-06RC
R ol



IL-09IR50
Infrare or 3pin

+

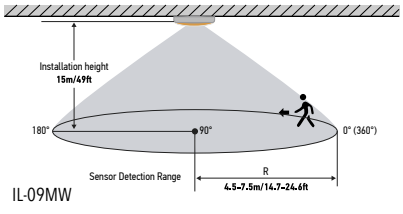


IL-06RC
R ol

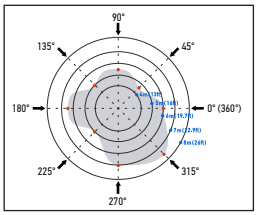
Specifications	Models: IL-09MW	Models: IL-09IR	Models: IL-09IR50	Default setting
Detection area	25 %/50 %/75 %/100 %			100 %
Hold time	**Remote control:** 5 s/30 s/1 min/3 min/5 min/10 min/20 min/30 min **Built-in switch:** 5 s/1 min/5 min/10 min			10 min
Daylight threshold	2 lux (0.2 fc)/10 lux (0.9 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			Disable
Standby period	0 s/10 s/30 s/1 min/5 min/10 min/30 min/60 min/+ ∞			0 s
Standby dimming level	**Remote control:** 10 %/20 %/30 %/50 % **Built-in switch:** 0 %/10 %/30 %/50 %			10 %

Specifications	Models: IL-09MW	Models: IL-09IR	Models: IL-09IR50
Operating voltage	10 - 15 V		
Operating current	< 30 mA	< 15 mA	< 30 mA
Mounting height	max 49.2 ft (15 m)	max 39.4 ft (12 m)	max 49.2 ft (15 m)
Detection radius	14.7 ft - 24.6 ft (4.5 m - 7.5 m)	14.7 ft - 22.9 ft (4.5 m - 7 m)	14.7 ft - 22.9 ft (4.5 m - 7 m)
Operating frequency	5.8 GHz ± 75 MHz	-	-
Transmitting power	< 0.3 mW	-	-

MICROWAVE MOTION SENSOR:

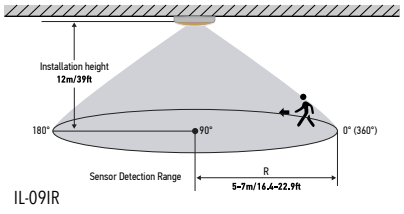


IL-09MW

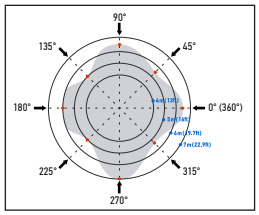


Sensitivity	0°/360°	45°	90°	135°	180°	225°	270°	315°
100%15m	6	4.5	5.5	5	6.5	5	7	7.5

INFRARED MOTION SENSOR:



IL-09IR

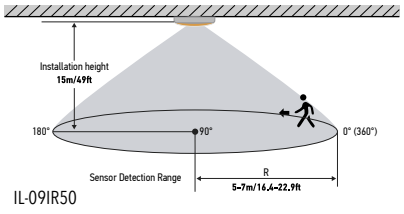


Sensitivity	0°/360°	45°	90°	135°	180°	225°	270°	315°
100%12m	6.5	5.5	6.5	5	6	5	7	5.5

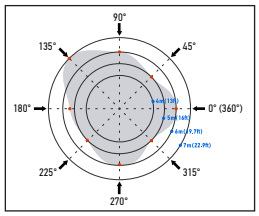
SENSOR USAGE RECOMMENDATIONS:

INDOOR RECOMMENDED LOCATIONS
Places where the temperature of the environment is well controlled.
Places where detecting the movement of people is a high priority.

INDOOR NOT RECOMMENDED LOCATIONS
Places where environment temp close to human body.
Places where PIR sensor lens can get covered.
Places higher than 39ft (unless you use 50ft PIR).



IL-09IR50



Sensitivity	0°/360°	45°	90°	135°	180°	225°	270°	315°
100%12m	6.5	5.5	6.5	5	6	5	7	5.5

REMOTE CONTROL

sold separately



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

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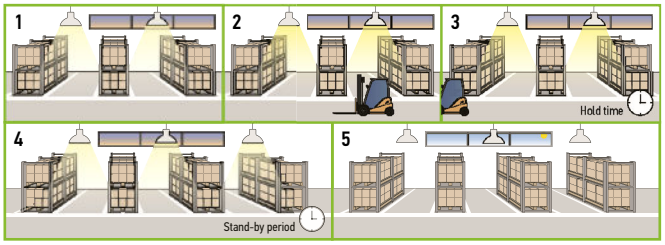
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LED THERMOGUARD UFO HIGH BAY WITH Q-BASE

UHG series

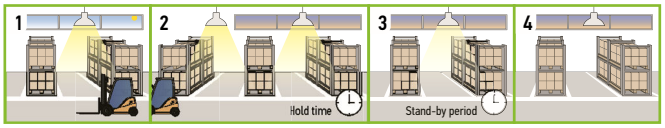
WITH DUSK/DAWN FUNCTION:

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.



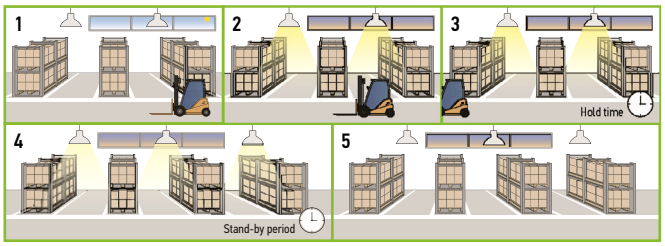
WITH DAYLIGHT DISABLED:

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.



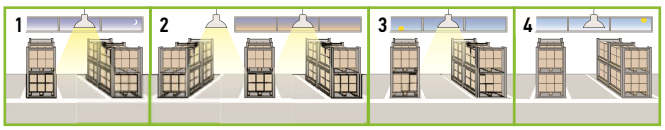
WITH DAYLIGHT THRESHOLD:

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.



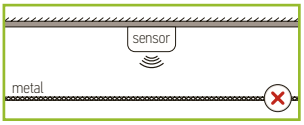
DAYLIGHT HARVESTING:

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.

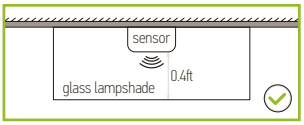


MICROWAVE MOTION SENSOR:

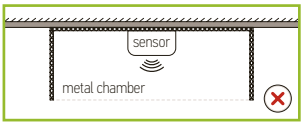
To avoid blocking the microwave emission, the microwave sensor can not be covered with metal materials, be sprayed with a coating of metal components, or have attached metal material or stickers etc.



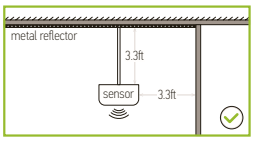
The distance between the antenna and the glass (dielectric material) should be no less than 0.4 ft when the sensor is within the glass lampshade. Otherwise, the microwave motion sensor will not penetrate the glass easily.



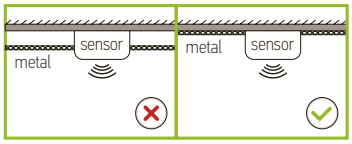
Avoid placing the sensor inside a metal chamber, this may cause a mis-trigger.



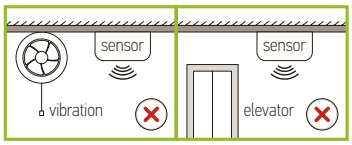
The sensor should not be placed in a small confined space. To avoid increasing the sensor detection range or abnormal operation, the sensor should be kept away from large areas of metal and glass reflectors (separation distance at least 3.3 ft). Reduce the detection area setting.



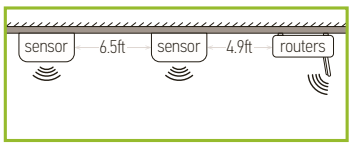
To avoid affecting the microwave signal transmission, the microwave antenna should be higher than the surrounding metal surface.



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

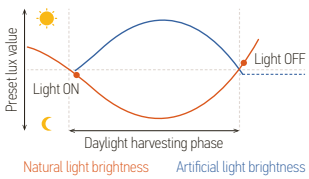


There must be at least 6.5ft between microwave sensors;
There must be at least 4.9ft between the sensor and other wireless devices such as routers to avoid possible radio interference.



DAYLIGHT HARVESTING SETTING:

1. Adjust "daylight" value higher than 50lux.
2. Preset "standby period" 0S.
3. Press "daylight harvesting" button on remote control to activate.



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UHG series

BATTERY BACK-UP KIT INFORMATION

BLD-RM40R **BLD-RM60R** sold separately

BLD-RM40R, BLD-RM60R listed for field and factory installation, provides constant power output to the load during emergency mode operation. They maintain illumination in emergency mode for a minimum of 90 minutes. It is an ideal emergency solution for UFO LED highbay lights.





REMOTE TEST SWITCH:

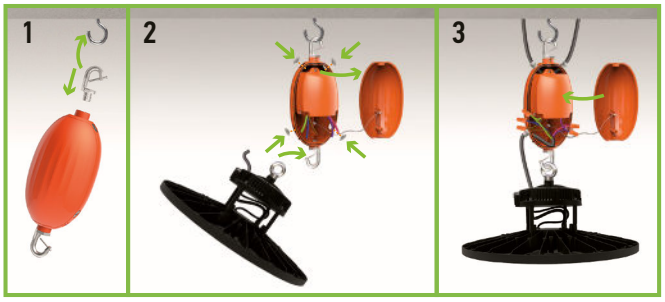
RN1 sold separately

Button		Remarks
ON	ON	Press this button to switch battery to back-up mode. The indicator light will turn off and fixture will decrease light output.
OFF	OFF	Press this button to switch the fixture to normal operation mode.



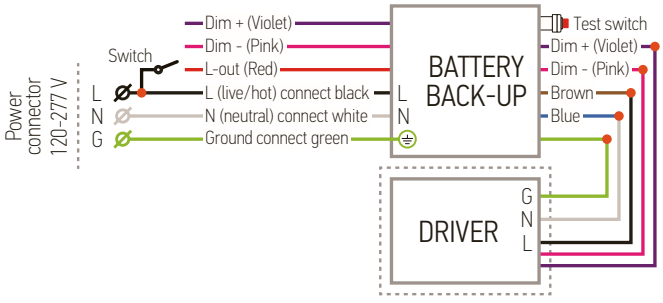
INSTALLATION STEPS:

1. Install the G-hook into the top threaded hole of the battery back-up and secure with the screw. Attach the battery back-up with G-hook to the ceiling hook.
2. Loosen the screw on the enclosed hook at the bottom of the emergency back-up, attach the ring on the fixture to the hook, and tighten the screw. Open the cover, remove the plastic covers, and install the five waterproof connectors.
3. Pull all wires through the waterproof connectors into the chamber of emergency driver. Connect the brown, blue, and green wires to the fixture's AC input. Connect the purple and pink dimming wires to the LED driver's dimming input. Connect the black, white, and red wires from the battery backup to the AC main power cord. Secure all connections with wire nuts and close the junction box cover.



Specifications	BLD-RM40R	BLD-RM60R
Input voltage	100-347 V	
Input current	≤ 200 mA	
Input power	max 15W	
Standby input power	< 0.8W (finished charging)	
Maximum standby time between recharges	6 months	
Driver type	Constant power	
Output power (emergency mode)	40W	60W
Output voltage range	≤ 170 Vdc	
Lumens	6,000 lm	
Maximum load power	300W (when dimming to a minimum, the power needs to be less than 36W)	
Peak output power (emergency mode)	100W (lasts for 10 seconds)	
Number of output channels	1 channel	
RFI/EMI	FCC part 15 class B	
Output type	LED class 1	
Battery type	Li-ion	
Battery capacity available	2600 mAh (96 WH)	
Battery recharge time	24 hours	
Battery discharge time	90 min	
Maximum lighting fixture weight	44.1 lbs (20 kg)	
Self-diagnostic test system	In the normal charging mode, the system performs a self-diagnostic test every 30 days, the system switches to emergency mode for 30S, and then automatically switches back to the normal charging mode.	
	In the normal charging mode, the system switches to emergency mode every 360 days (after 11 monthly self-diagnostic test) and works until the end of discharge. Automatically switches back to normal charging mode after discharge.	
Operating temperature	40°F to 122°F (5°C to 50°C)	
Service life	50,000 hours	
Input surge protection	2 kV	
Protections	Battery over discharge protection, output short circuit protection	
Approvals/class	RoHS, UL924 listed, CEC title 20	
	Dry/Wet Locations, IP65	

ELECTRICAL SCHEMATIC DIAGRAM:



For the most up-to-date spec sheets, visit integrityled.info

INTEGRITY LED
Commercial LED Lighting

Web: integrityled.info
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English

INTEGRITY LED

LED THERMOGUARD UFO HIGH BAY WITH Q-BASE

UHG series

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.

Integrity LED assumes no responsibility for claims arising out of improper or careless Installation or handling of this product.

INSTALLATION STEPS:

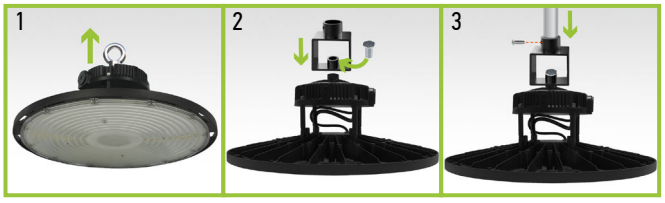
1. Screw on the mounting ring (included) and tighten it.
2. Clip the fixture on the hook in the ceiling using the mounting ring. Secure the luminaire with a safety cable.
3. Connect the wires: Black to Black, White to White, Green to Green. Secure the connection with wire nuts.



PENDANT MOUNT BRACKET INSTALLATION

sold separately:

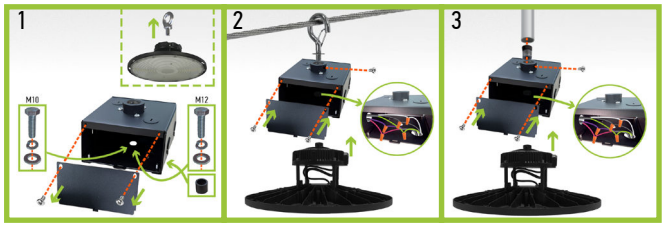
1. Remove the original ring from the driver.
2. Install the bracket and secure it to the driver using an M10 or M12 screw (included with the bracket).
3. Screw the bracket with the fixture onto a pole and secure it with an M3 screw (included with the bracket).



PENDANT MOUNT BRACKET WITH J-BOX AND SPRING HOOK INSTALLATION

sold separately:

1. Uninstall the mounting ring from the fixture. Unscrew the two screws and open the side plate on the Pendant Junction box. Install M10 or M12 Mounting screw depending on the fixture's thread size.
2. **Mounting hook installation:** Loosen security screw and install the spring hook into the upper installation hole of the Pendant J-Box, then secure it with screw. Secure Pendant J-box to the fixture, and then to the ceiling. Close and secure side plate back into place.
3. **Pendant installation:** Uninstall adapter from pole mounting hole. Secure the Pendant J-box and fixture to the pole. Secure fixture to the Pendant J-box. Close and secure side plate back into place.



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