

RBAY22 Field-Adjustable High Bay w/Adjustable Optics

RAB®

RBAY22S



RBAY22M



RBAY22L



Field-adjustable high bay w/adjustable optics

0-10V

100,000 HOURS

FIELD ADJUSTABLE

DAMP RATED

BAT. BACKUP

IP69K RATED

IK10 RATED

NSF CERTIFIED

SELECTABLE BEAM ANGLE

PERFORMANCE

RBAY22S	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	55°			55°			55°		
Wattage	160W			130W			100W		
Input Watts	159.3W	155.1W	159.8W	131.6W	128.1W	132.0W	102.0W	99.3W	102.3W
Lumens	23,869	24,592	23,818	20,401	21,019	20,358	16,390	16,886	16,355
Lm/W	149.8	158.6	149.0	155.0	164.1	154.2	160.7	170.1	159.9
CRI	82	84	85	83	84	85	83	84	85
Voltage Ratings	120-277V								

RBAY22S	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	85°			85°			85°		
Wattage	160W			130W			100W		
Input Watts	159.4W	155.2W	160.0W	131.8W	128.3W	132.3W	102.1W	99.4W	102.5W
Lumens	23,966	24,779	24,026	20,512	21,208	20,563	16,493	17,053	16,534
Lm/W	150.4	159.7	150.2	155.6	165.3	155.4	161.5	171.6	161.3
CRI	82	84	85	83	84	85	83	84	85
Voltage Ratings	120-277V								

PROJECT:

DATE:

TYPE:

PREPARED BY:

5 YEAR LIMITED WARRANTY

DLC LISTED PREMIUM

UL CERTIFIED

KEY FEATURES

- Available in three sizes & selectable wattages:
RBAY22S : 160/130/100W (Default **160W**)
RBAY22M: 260/220/160W (Default **260W**)
RBAY22L: 320/260/200W (Default **320W**)
- CCT selectable: 3500/4000/5000K - Default CCT: 4000K
- Selectable beam angle: 55°/85°/105° (Default **85°**)
- Voltage rating: **120-277V**. **480V** available.
- Includes a **sensor port** to easily install standard or Lightcloud Blue PIR and MVS sensors. **Multi-sensor remote** sold separately.
- V-hook & chain** included for mounting. Pendant mount kits sold separately
- Battery backup sold separately
- IK10 & IP69K ratings
- 5-year, limited warranty

RBAY22 Field-Adjustable High Bay w/Adjustable Optics



PERFORMANCE

RBAY22S	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	105°			105°			105°		
Wattage	160W			130W			100W		
Input Watts	161.7W	157.0W	162.4W	133.5W	129.6W	134.1W	103.1W	100.1W	103.5W
Lumens	23,527	24,489	23,607	20,196	21,022	20,265	16,279	16,945	16,334
Lm/W	145.5	156.0	145.4	151.3	162.2	151.1	157.9	169.3	157.8
CRI	82	84	84	82	84	84	83	84	84
Voltage Ratings	120-277V								

RBAY22S	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	55°			55°			55°		
Wattage	160W			130W			100W		
Input Watts	156.9W	154.0W	157.3W	128.4W	126.0W	128.7W	101.8W	99.9W	102.1W
Lumens	23,695	24,630	23,751	19,948	20,735	19,995	16,226	16,866	16,264
Lm/W	151.0	159.9	151.0	155.4	164.6	155.4	159.4	168.8	159.3
CRI	82	84	85	82	84	85	83	84	85
Voltage Ratings	480V								

RBAY22S	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	85°			85°			85°		
Wattage	160W			130W			100W		
Input Watts	157.1W	154.1W	157.4W	128.5W	126.0W	128.7W	101.9W	100.0W	102.1W
Lumens	23,874	24,829	23,952	20,102	20,906	20,167	16,350	17,004	16,403
Lm/W	152.0	161.1	152.2	156.4	165.9	156.7	160.5	170.0	160.7
CRI	82	84	85	82	84	85	83	84	85
Voltage Ratings	480V								

RBAY22S	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	105°			105°			105°		
Wattage	160W			130W			100W		
Input Watts	158.7W	155.3W	159.2W	130.0W	127.2W	130.4W	102.8W	100.6W	103.1W
Lumens	23,418	24,511	23,513	19,835	20,761	19,915	16,198	16,954	16,264
Lm/W	147.6	157.8	147.7	152.6	163.2	152.7	157.6	168.5	157.7
CRI	82	84	84	82	84	84	82	84	84
Voltage Ratings	480V								

RBAY22 Field-Adjustable High Bay w/Adjustable Optics



PERFORMANCE

RBAY22M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	55°			55°			55°		
Wattage	260W			220W			160W		
Input Watts	249.2W	242.9W	249.9W	214.7W	209.3W	215.3W	159.2W	155.2W	159.6W
Lumens	37,157	38,446	37,303	32,924	34,067	33,053	25,510	26,395	25,610
Lm/W	149.1	158.3	149.3	153.3	162.8	153.5	160.2	170.1	160.5
CRI	83	85	85	83	85	85	83	85	85
Voltage Ratings	120-277V								

RBAY22M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	85°			85°			85°		
Wattage	260W			220W			160W		
Input Watts	249.4W	243.2W	250.3W	215.3W	209.9W	216.1W	159.3W	155.3W	159.9W
Lumens	37,298	38,754	37,676	33,171	34,466	33,507	25,780	26,786	26,041
Lm/W	149.6	159.4	150.5	154.1	164.2	155.1	161.8	172.5	162.9
CRI	83	85	85	83	85	85	83	85	85
Voltage Ratings	120-277V								

RBAY22M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	105°			105°			105°		
Wattage	260W			220W			160W		
Input Watts	253.0W	245.9W	254.0W	218.1W	212.0W	219.0W	161.2W	156.7W	161.8W
Lumens	36,656	38,261	36,943	32,622	34,050	32,877	25,487	26,603	25,686
Lm/W	144.9	155.6	145.4	149.6	160.6	150.1	158.1	169.8	158.8
CRI	83	84	85	83	84	85	83	84	85
Voltage Ratings	120-277V								

RBAY22M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	55°			55°			55°		
Wattage	260W			220W			160W		
Input Watts	251.5W	245.4W	252.2W	218.4W	213.1W	219.0W	165.3W	161.3W	165.8W
Lumens	37,150	38,578	37,164	33,078	34,350	33,090	26,095	27,098	26,105
Lm/W	147.7	157.2	147.4	151.5	161.2	151.1	157.9	168.0	157.4
CRI	83	84	85	83	84	85	83	84	85
Voltage Ratings	480V								

RBAY22 Field-Adjustable High Bay w/Adjustable Optics



PERFORMANCE

RBAY22M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	85°			85°			85°		
Wattage	260W			220W			160W		
Input Watts	251.7W	245.5W	252.9W	218.6W	213.2W	219.6W	165.6W	161.5W	166.4W
Lumens	37,417	38,918	37,797	33,396	34,736	33,735	26,482	27,544	26,751
Lm/W	148.7	158.5	149.5	152.8	162.9	153.6	159.9	170.6	160.8
CRI	82	84	84	82	84	84	82	84	84
Voltage Ratings	480V								

RBAY22M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	105°			105°			105°		
Wattage	260W			220W			160W		
Input Watts	255.0W	248.0W	255.9W	221.1W	215.0W	221.9W	166.9W	162.3W	167.5W
Lumens	36,557	38,340	36,669	32,754	34,351	32,854	26,057	27,328	26,137
Lm/W	143.4	154.6	143.3	148.1	159.8	148.1	156.1	168.4	156.0
CRI	82	84	84	82	84	84	82	84	84
Voltage Ratings	480V								

RBAY22L	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	55°			55°			55°		
Wattage	320W			260W			200W		
Input Watts	308.0W	301.0W	308.8W	262.3W	256.3W	263.0W	206.3W	201.6W	206.8W
Lumens	47,397	48,787	47,691	41,398	42,612	41,654	33,654	34,641	33,862
Lm/W	153.9	162.1	154.4	157.8	166.3	158.4	163.1	171.8	163.7
CRI	83	85	85	83	85	85	84	85	85
Voltage Ratings	120-277V								

RBAY22L	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	85°			85°			85°		
Wattage	320W			260W			200W		
Input Watts	308.3W	301.3W	309.0W	262.4W	256.4W	263.0W	206.2W	201.5W	206.7W
Lumens	47,811	49,256	48,139	41,774	43,037	42,060	33,952	34,978	34,185
Lm/W	155.1	163.5	155.8	159.2	167.9	159.9	164.7	173.6	165.4
CRI	83	85	85	83	85	85	83	85	85
Voltage Ratings	120-277V								

RBAY22 Field-Adjustable High Bay w/Adjustable Optics



PERFORMANCE

RBAY22L	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	105°			105°			105°		
Wattage	320W			260W			200W		
Input Watts	310.8W	303.1W	312.0W	264.5W	257.9W	265.5W	206.8W	201.7W	207.6W
Lumens	46,692	48,526	47,167	41,044	42,656	41,461	33,389	34,701	33,729
Lm/W	150.2	160.1	151.2	155.2	165.4	156.2	161.5	172.0	162.5
CRI	83	85	85	83	85	85	83	85	85
Voltage Ratings	120-277V								

RBAY22L	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	55°			55°			55°		
Wattage	320W			260W			200W		
Input Watts	308.9W	301.6W	309.8W	257.8W	251.7W	258.6W	200.7W	196.0W	201.3W
Lumens	47,975	49,511	48,216	41,264	42,585	41,472	33,091	34,150	33,258
Lm/W	155.3	164.2	155.6	160.1	169.2	160.4	164.9	174.2	165.2
CRI	83	84	85	83	84	85	83	84	85
Voltage Ratings	480V								

RBAY22L	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	85°			85°			85°		
Wattage	320W			260W			200W		
Input Watts	309.2W	301.8W	310.0W	258.0W	251.8W	258.7W	200.8W	196.0W	201.3W
Lumens	48,523	50,020	48,659	41,621	42,905	41,738	33,453	34,485	33,547
Lm/W	156.9	165.7	157.0	161.3	170.4	161.3	166.6	175.9	166.7
CRI	83	84	85	83	84	85	83	84	85
Voltage Ratings	480V								

RBAY22L	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
Beam Angle	105°			105°			105°		
Wattage	320W			260W			200W		
Input Watts	312.9W	304.5W	313.9W	260.8W	253.8W	261.6W	202.6W	197.2W	203.2W
Lumens	47,654	49,373	47,732	41,025	42,505	41,092	33,051	34,243	33,105
Lm/W	152.3	162.1	152.1	157.3	167.5	157.1	163.1	173.6	162.9
CRI	82	84	85	83	84	85	83	84	85
Voltage Ratings	480V								

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

Suitable for wet locations

IP Ratings

Ingress Protection rating of IP69K for dust and water

NSF

NSF certified by public health and safety

IK Ratings

IK10 rated for protection against impact

DLC Listed

This product family is listed with the DesignLights Consortium (DLC). Individual SKUs within this family may carry either a DLC Standard or DLC Premium qualification. Please refer to the individual product specification sheet or the DLC Qualified Products List (QPL) at designlights.org to confirm the qualification status of a specific SKU prior to specification or purchase.

CONSTRUCTION

Cold Weather Starting

The minimum starting temperature is -20°C (-4°F)

Cold Weather Starting with Battery Backup

The minimum starting temperature is 0°C (32°F)

Maximum Ambient Temperature

Suitable for use in up to 50°C (122°F)

Maximum Ambient Temperature with Battery Backup

Suitable for use in up to 45°C (113°F)

Lens

Polycarbonate lens

Housing

Die-cast aluminum

Mounting

Comes standard with V-hooks for chain mounting. Accessories available for pendant and surface mounting (purchased separately).

Green Technology

Mercury and UV free. RoHS-compliant components.

Finish

Formulated for high durability and long lasting color

LED CHARACTERISTICS

LEDs

Long-life, high-efficacy, discrete, surface-mount LEDs

Color Uniformity

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

FACTORY SETTINGS

Adjustable Wattages:

RBAY22S : 160/130/100W (Default **160W**)

RBAY22M: 260/220/160W (Default **260W**)

RBAY22L: 320/260/200W (Default **320W**)

CCT selectable: 3500/4000/5000K - Default CCT: 4000K

Selectable beam angle: 55°/85°/105° (Default **85°**)

ELECTRICAL

Drivers:

Constant Current, Class 1, 120-277V, 50/60 Hz

RBAY22S

160W: 120V: 1.4A, 208V: 0.8A, 240V: 0.7A, 277V: 0.65A

130W: 120V: 1.2A, 208V: 0.7A, 240V: 0.6A, 277V: 0.55A

100W: 120V: 0.95A, 208V: 0.55A, 240V: 0.50A, 277V: 0.5A

RBAY22M

260W: 120V: 2.2A, 208V: 1.3A, 240V: 1.1A, 277V: 1.0A

220W: 120V: 1.85A, 208V: 1.1A, 240V: 0.95A, 277V: 0.85A

160W: 120V: 1.35A, 208V: 0.8A, 240V: 0.7A, 277V: 0.6A

RBAY22L

320W: 120V: 2.7A, 208V: 1.6A, 240V: 0.7A, 277V: 0.6A

260W: 120V: 2.2A, 208V: 1.3A, 240V: 1.2A, 277V: 1.1A

200W: 120V: 1.7A, 208V: 1.0A, 240V: 0.95A, 277V: 0.85A

Constant Current, Class 1, 480V, 50/60 Hz

RBAY22S

160W: 480V: 0.35A

130W: 480V: 0.30A

100W: 480V: 0.25A

RBAY22M

260W: 480V: 0.33A

220W: 480V: 0.46A

160W: 480V: 0.54A

RBAY22L

320W: 480V: 0.7A

260W: 480V: 0.6A

200W: 480V: 0.5A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems.

Requires separate 0-10V DC dimming circuit. Dims down to 10%.

Surge Protection:

6KV+6KV

THD: (Default)

RBAY22S: 4.9% at 120V, 8.1% at 277V, 5.8% at 480V

RBAY22M: 4.7% at 120V, 7.9% at 277V, 4.0% at 480V

RBAY22L: 5.0% at 120V, 9.7% at 277V, 7.6% at 480V

Power Factor: (Default)

RBAY22S: 99.8% at 120V, 96.6% at 277V, 95.9% at 480V

RBAY22M: 99.8% at 120V, 95.7% at 277V, 96.7% at 480V

RBAY22L: 99.8% at 120V, 94.5% at 277V, 96.6% at 480V

TECHNICAL SPECIFICATIONS (CONTINUED)

ELECTRICAL (CONTINUED)

Emergency Light Loss Factor:

Product	Wattage	LLF @ 120/277V	LLF @ 480V
RBAY22S	160	17.39%	26.96%
	130	21.64%	33.00%
	100	27.00%	41.00%
RBAY22M	260	10.00%	17.44%
	220	12.29%	20.48%
	160	16.00%	27.00%
RBAY22L	320	21.23%	13.80%
	260	25.00%	16.50%
	200	31.00%	21.00%

Note: All values are typical (tolerance +/- 10%)

WIRELESS NETWORK LIGHTING CONTROLS

Lightcloud Blue-enabled:

Lightcloud-enabled products offer integrated network lighting control for a truly wireless solution that allows you to control RAB's various compatible devices. With RAB's patented Rapid Provisioning technology, devices can be quickly and easily commissioned for residential and commercial applications. Each device can then communicate with other devices in the mesh network. With two Lightcloud systems to choose from, it's easy to implement controls within any application.

DLC system - N1XMLOEATBA (Interior); NHCZ2BIA17L (Exterior)

Learn more at www.lightcloud.com

Lightcloud Blue (LCB)

- Utilizes Bluetooth Mesh, eliminating the need for a Gateway or Hub.
- Ideal for applications that need basic wireless control such as ON/OFF, dimming, color tuning, Schedules, and SmartShift.
- Download the Lightcloud Blue mobile app for iOS or Android devices.

Lightcloud Enterprise (LC)

- Utilizes a secure cellular and Zigbee mesh network that requires a Gateway or Hub (sold separately).
- Offers premium features like remote commissioning, demand response, BACnet integration, and more.
- Download the Lightcloud Enterprise mobile app for iOS or Android devices.

OCCUPANCY SENSORS (ACCESSORIES)

Sensor Type: Passive Infrared (PIR) or Microwave (MVS)

Input Voltage: 12VDC

Operating Frequency: 50/60Hz

Input Current: 30mA

Operating Temperature: -40°F to 140°F (-20°C to 60°C)

Max Mounting Height: 40 ft. (PIR); 50 ft. (MVS)

Detection Range:

PIR: 40 ft. diameter mounted at 40 ft.

MVS: 50 ft. diameter mounted at 40 ft.

Daylight Sensing:

The sensor will determine to trigger the light(s) on or not based on the daylight threshold level set. Closed loop daylight harvesting with continuous dimming available with Lightcloud Blue. Specify settings using the Lightcloud Blue mobile app.

Default Settings:

Motion Sensitivity: High

Brightness when triggered : 100%

Hold time: 20 minutes

Standby to dim: 20%

Standby time: 1 minute

When vacant: Off

Daylight: Disabled

Adjustable Settings:

Settings for Lightcloud Blue-enabled sensors can be adjusted using the mobile app. All other sensors will require MSR1 Remote (sold separately) to adjust the following sensor settings:

Standby to dim: 10%/20%/30%/50%

Standby time: 0s/10s/30s/1min/5min/10min/30min/60min/+∞

Daylight Threshold: 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable

OTHER

Warranty

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Lifespan

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

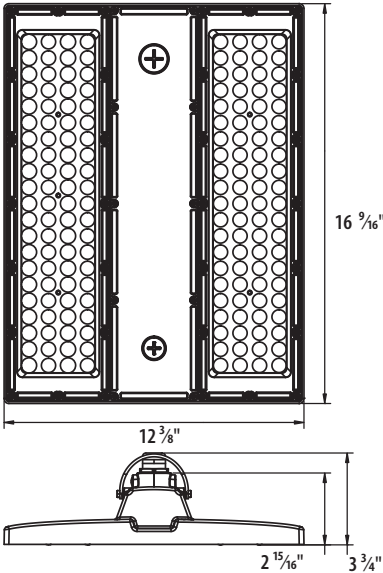
RBAY22 Field-Adjustable High Bay w/Adjustable Optics



DIMENSIONS

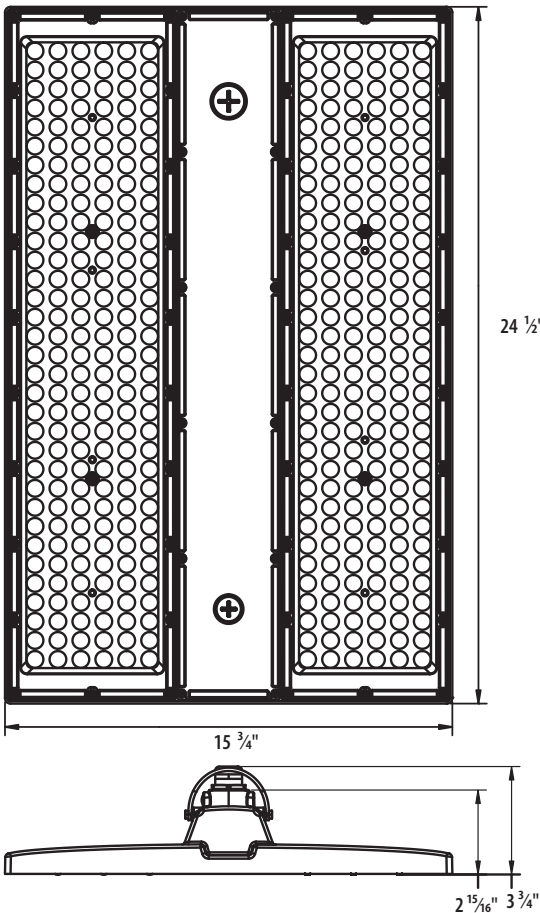
RBAY22S

Weight (120-277V) : 8.84 lbs
Weight (480V) : 9.06 lbs



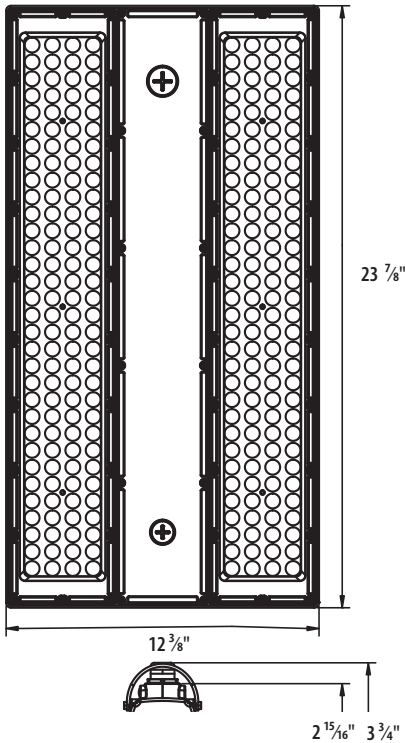
RBAY22L

Weight (120-277V) : 13.62 lbs
Weight (480V) : 14.95 lbs



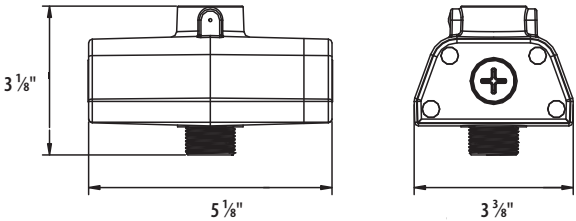
RBAY22M

Weight (120-277V) : 11.1 lbs
Weight (480V) : 12.43 lbs



PMKRBAY22

Weight 1.9 lbs



RBAY22 Field-Adjustable High Bay w/Adjustable Optics



ACCESSORIES

Image	Catalog#	Description	UPC
	PIR40	HIGH CEILING LOW VOLTAGE PIR SENSOR WHITE	192552026000
	PIR40/LCB	LC BLUE HIGH CEILING LOW VOLT LUMINAIRE CONTROLLER WITH PIR WHITE	192552026079
	MVS50	HIGH CEILING LOW VOLTAGE MVS SENSOR WHITE	192552025997
	MVS50/LCB	LC BLUE HIGH CEILING LOW VOLT LUMINAIRE CONTROLLER WITH MVS WHITE	192552026062
	MSR1	MULTI SENSOR REMOTE CONTROL IP20	192552026055
	PMKRBAY22	RBAY22 PENDANT MOUNT KIT WHITE	192552044608
	EMHB30	EMERGENCY BATTERY BACKUP 30W, 160W & 260W HIGH BAY WHITE	192552030137
	EMHB60	EMERGENCY BATTERY BACKUP 60W , 320W HIGH BAY WHITE	192552036443
	EMHB30/LCB	EMERGENCY BATTERY BACKUP 30W , 160W & 260W W/LCB WHITE	192552036429
	EMHB60/LCB	EMERGENCY BATTERY BACKUP 60W, 320W W/LCB WHITE	192552036467
	EMHB40/480	EMERGENCY BATTERY BACKUP FOR HIGH BAY 40W WHITE FOR ALL480V MODELS	192552016834

ORDERING MATRIX

RBAY22

Family	Size (Wattage)	Color Temp	Mounting	Optics	Finish	Driver
RBAY22						
	S 160/130/100W M 260/220/160W L 320/260/220W	BLANK 3500/4000/5000K CCT Adjustable	BLANK V-Hook/Chain	BLANK 55°/85°/105° Beam Angle Selectable	BLANK White	BLANK 120-277V, 0-10V dimming /480 480V, 0-10V dimming