

RBAY15 Field-Adjustable, Linear High Bay



RBAY15S



PROJECT:

DATE:

TYPE:

PREPARED BY:

RBAY15M



KEY FEATURES

- Available in three different sizes with **field-adjustable** wattage
RBAY15S : 14" (130/100/80W) - Default wattage: 130W
RBAY15M: 20" (260/220/160W) - Default wattage: 260W
RBAY15L: 39" (400/320/260W) - Default wattage: 400W
CCT: 3500/4000/5000K - Default CCT: 4000K
- Voltage rating: 120-277V, 480V
- Includes a **sensor port** to easily install standard or Lightcloud blue enabled PIR/MVS sensors. **Multi-sensor MSR1 remote** sold separately.
- Wire guards, surface and pendant mount kits available
- Adjustable optics: 90x90 for general use or rotate 180 degrees for 45x100 aisle lighting
- Battery backup available
- 5-year, limited warranty

RBAY15L



Field-adjustable, linear high bay



PERFORMANCE

RBAY15S	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	90X90°			90X90°			90X90°		
WATTAGE	130W			100W			80W		
INPUT WATTS	132.0W	132.9W	130.3W	102.6W	99.4W	102.4W	81.6W	79.3W	81.4W
LUMENS	18,485	21,019	19,040	15,692	16,680	16,353	12,852	13,487	13,466
EFFICACY	140.0	158.1	146.2	153.0	167.9	159.8	157.4	170.2	165.3
CRI	83	84	82	83	84	83	83	84	83
VOLTAGE RATING	120-277V			120-277V			120-277V		

RBAY15S	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	45X110°			45X110°			45X110°		
WATTAGE	130W			100W			80W		
INPUT WATTS	129.6W	124.7W	129.6W	102.5W	99.3W	102.3W	81.4W	79.2W	81.5W
LUMENS	17,453	18,821	18,281	14,410	15,306	15,041	11,788	12,382	12,390
EFFICACY	134.7	150.9	141.0	140.6	154.1	147.0	144.8	156.3	152.1
CRI	83	84	82	83	84	83	83	84	83
VOLTAGE RATING	120-277V			120-277V			120-277V		

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PERFORMANCE

RBAY15S	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	90X90°			90X90°			90X90°		
WATTAGE	130W			100W			80W		
INPUT WATTS	133.06	128.73	132.84	103.86	100.39	103.74	83.27	80.76	83.95
LUMENS	19,465	21,023	19,945	15,663	16,804	16,673	12,606	13,500	13,698
EFFICACY	147.7	165.3	151.7	152.2	169.5	162.9	153.8	170.4	167.8
CRI	83	84	83	83	84	83	83	84	83
VOLTAGE RATING	480V			480V			480V		

RBAY15S	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	45X110°			45X110°			45X110°		
WATTAGE	130W			100W			80W		
INPUT WATTS	133.06	128.73	132.84	103.86	100.39	103.74	83.27	80.76	83.95
LUMENS	17,795	19,111	18,371	14,522	15,401	14,948	11,813	12,359	13,698
EFFICACY	137.3	154.1	142.2	143.5	156.8	148.1	147.6	158.6	167.8
CRI	83	84	83	83	84	83	83	84	83
VOLTAGE RATING	480V			480V			480V		

RBAY15M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	90X90°			90X90°			90X90°		
WATTAGE	260W			220W			160W		
INPUT WATTS	260.0W	247.2W	257.2W	217.2W	211.0W	217.7W	159.0W	153.9W	158.4W
LUMENS	38,179	41,007	38,074	31,360	34,559	32,869	24,468	25,803	25,204
EFFICACY	146.9	165.9	148.0	144.4	163.8	151.0	153.9	167.6	159.1
CRI	82	83	86	84	85	83	84	85	83
VOLTAGE RATING	120-277V			120-277V			120-277V		

RBAY15M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	45X110°			45X110°			45X110°		
WATTAGE	260W			220W			160W		
INPUT WATTS	256.4W	244.6W	256.2W	218.8W	209.9W	219.9W	162.9W	155.1W	159.8W
LUMENS	36,186	39,431	37,602	32,150	34,593	33,455	25,238	26,442	25,865
EFFICACY	141.1	161.2	146.8	146.9	164.8	152.1	154.9	170.5	161.9
CRI	82	83	86	84	85	83	84	85	83
VOLTAGE RATING	120-277V			120-277V			120-277V		

RBAY15M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	90X90°			90X90°			90X90°		
WATTAGE	260W			220W			160W		
INPUT WATTS	257.67	245.64	257.2	218.21	209.97	219.06	161.68	156.29	161.81
LUMENS	39,039	41,366	39,638	34,101	36,262	34,401	26,461	26,251	25,771
EFFICACY	149.6	166.6	152.4	154.9	171.5	156.4	162.8	166.8	158.9
CRI	82	83	83	83	84	82	83	84	83
VOLTAGE RATING	480V			480V			480V		

RBAY15 Field-Adjustable, Linear High Bay



PERFORMANCE

RBAY15M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	45X110°			45X110°			45X110°		
WATTAGE	260W			220W			160W		
INPUT WATTS	257.67	245.64	257.2	218.21	209.97	219.06	161.68	156.29	161.81
LUMENS	36,055	39,121	37,450	31,766	34,153	33,071	24,828	26,038	25,578
EFFICACY	143.7	163.8	149.5	148.9	166.8	154.8	156.7	171.2	162.6
CRI	82	83	83	83	84	82	83	84	83
VOLTAGE RATING	480V			480V			480V		

RBAY15L	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	90X90°			90X90°			90X90°		
WATTAGE	400W			320W			260W		
INPUT WATTS	396.5W	368.9W	386.9W	311.6W	297.7W	310.2W	254.1W	243.3W	252.4W
LUMENS	56,859	61,262	59,360	47,039	51,325	50,266	40,076	42,175	41,823
EFFICACY	143.4	166.1	153.4	151.0	172.4	162.0	157.7	173.4	165.7
CRI	83	84	83	83	84	83	83	84	83
VOLTAGE RATING	120-277V			120-277V			120-277V		

RBAY15L	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	45X110°			45X110°			45X110°		
WATTAGE	400W			320W			260W		
INPUT WATTS	389.9W	369.3W	387.1W	311.8W	298.0W	310.0W	256.3W	246.5W	255.7W
LUMENS	51,481	56,804	54,772	42,850	46,813	46,073	36,646	39,463	39,050
EFFICACY	132.0	153.8	141.5	137.4	157.1	148.6	143.0	160.1	152.7
CRI	83	84	83	83	85	83	84	85	83
VOLTAGE RATING	120-277V			120-277V			120-277V		

RBAY15L	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	90X90°			90X90°			90X90°		
WATTAGE	400W			320W			260W		
INPUT WATTS	412.45	392.51	411.09	331.71	318.01	330.81	271.53	261.26	210.94
LUMENS	58,138	61,882	58,673	48,218	51,133	49,162	41,057	42,668	41,398
EFFICACY	141.4	158.5	143.5	147.3	162.7	150.7	153.7	166.1	155.3
CRI	83	85	83	84	85	84	84	85	84
VOLTAGE RATING	480V			480V			480V		

RBAY15L	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
BEAM ANGLE	45X110°			45X110°			45X110°		
WATTAGE	400W			320W			260W		
INPUT WATTS	412.45	392.51	411.09	331.71	318.01	330.81	271.53	261.26	210.94
LUMENS	52,929	57,718	54,832	44,699	48,029	46,332	37,708	39,730	38,581
EFFICACY	133.6	153.3	139.0	140.7	157.4	145.7	145.2	159.8	150.3
CRI	83	85	83	84	85	84	84	85	84
VOLTAGE RATING	480V			480V			480V		

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

Suitable for damp locations

DLC Listed

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

Member Utilities. Designed to meet DLC 5.1 requirements.

CONSTRUCTION

Cold Weather Starting

The minimum starting temperature is -40°C (-40°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 50°C (122°F) for RBAY15S models and 45°C (113°F) for RBAY15M & RBAY15L models with battery backup.

Lens

Polycarbonate lens

Housing

Aluminum

Reflector

Polycarbonate

Gasket

High-temperature silicone

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

Field-Adjustable Wattage:

RBAY15S : **130/100/80W** - Default wattage: 130W

RBAY15M: **260/220/160W** - Default wattage: 260W

RBAY15L: **400/320/260W** - Default wattage: 400W

CCT Adjustable: **3500/4000/5000K** - Default CCT: 4000K

ELECTRICAL

Drivers:

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

RBAY15S

130W: 120V: 1.20A, 208V: 0.70A, 240V: 0.60A, 277V: 0.52A

100W: 120V: 0.90A, 208V: 0.55A, 240V: 0.45A, 277V: 0.40A

80W: 120V: 0.75A, 208V: 0.40A, 240V: 0.35A, 277V: 0.30A

RBAY15M

260W: 120V: 2.40A, 208V: 1.40A, 240V: 1.20A, 277V: 1.10A

220W: 120V: 2.00A, 208V: 1.20A, 240V: 1.00A, 277V: 0.80A

160W: 120V: 1.65A, 208V: 0.95A, 240V: 0.85A, 277V: 0.70A

RBAY15L

400W: 120V: 3.70A, 208V: 2.10A, 240V: 1.80A, 277V: 1.60A

320W: 120V: 3.00A, 208V: 1.70A, 240V: 1.50A, 277V: 1.30A

260W: 120V: 2.40A, 208V: 1.40A, 240V: 1.20A, 277V: 1.00A

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

RBAY15S

130W: 480V: 0.30A

100W: 480V: 0.25A

80W: 480V: 0.20A

RBAY15M

260W: 480V: 0.60A

220W: 480V: 0.50A

160W: 480V: 0.40A

RBAY15L

400W: 480V: 0.90A

320W: 480V: 0.75A

260W: 480V: 0.60A

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.

Battery Backup:

Battery backup will operate the LED Lamp for 90 minutes if power falls.

Wired for 120-277V & 480V.

Surge Protection:

L/N-PE: 6KV, L-N: 6KV

THD:

RBAY15S: 130W: 3.2% at 120V, 6.8% at 277V

RBAY15M: 260W: 3.3% at 120V, 8.8% at 277V

RBAY15L: 400W: 9.4% at 120V, 8.3% at 277V

RBAY15S: 130W: 10.8% at 480V

RBAY15M: 260W: 5.8% at 480V

RBAY15L: 400W: 7.1% at 480V

Power Factor:

RBAY15S: 130W: 99.8% at 120V, 94.0% at 277V

RBAY15M: 260W: 99.8% at 120V, 97.5% at 277V

RBAY15L: 400W: 99.4% at 120V, 98.0% at 277V

RBAY15S: 130W: 91.9% at 480V

RBAY15M: 260W: 96.3% at 480V

RBAY15L: 400W: 95.5% at 480V

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

TECHNICAL SPECIFICATIONS (CONTINUED)

ELECTRICAL

Emergency Light Loss Factor:

RBAY15S/E			RBAY15S/480/E		
WATTS	CCT	LLF	WATTS	CCT	LLF
130W	3500K	14%	130W	3500K	31%
	4000K	14%		4000K	36%
	5000K	15%		5000K	31%
100W	3500K	17%	100W	3500K	38%
	4000K	17%		4000K	45%
	5000K	18%		5000K	39%
80W	3500K	21%	80W	3500K	48%
	4000K	21%		4000K	56%
	5000K	21%		5000K	47%
RBAY15M/E			RBAY15M/480/E		
WATTS	CCT	LLF	WATTS	CCT	LLF
260W	3500K	10%	260W	3500K	18%
	4000K	9%		4000K	19%
	5000K	10%		5000K	18%
220W	3500K	11%	220W	3500K	20%
	4000K	10%		4000K	21%
	5000K	12%		5000K	21%
160W	3500K	15%	160W	3500K	26%
	4000K	14%		4000K	28%
	5000K	15%		5000K	27%
RBAY15L/E			RBAY15L/480/E		
WATTS	CCT	LLF	WATTS	CCT	LLF
400W	3500K	6%	400W	3500K	11%
	4000K	6%		4000K	12%
	5000K	6%		5000K	11%
320W	3500K	7%	320W	3500K	13%
	4000K	8%		4000K	14%
	5000K	7%		5000K	13%
260W	3500K	8%	260W	3500K	16%
	4000K	9%		4000K	17%
	5000K	8%		5000K	16%

LIGHTCLOUD BLUE (ACCESSORY)

Lightcloud Blue-enabled:

Lightcloud Blue (LCB) is a Bluetooth Mesh wireless lighting control system 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 large commercial applications using the Lightcloud Blue mobile app. Each device in a system can communicate with any other device, eliminating the need for a Gateway or Hub and maximizing the control system's reach.

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

Learn more at www.lightcloud.com

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. (/PIR & /LCBS); MVS: 50 ft. diameter mounted at 50 ft. (/MVS & /LCBS/MVS); PIR20[B]/[LCB] and MVS20[B]/[LCB] 20 ft. diameter mounted at 9 ft. (sold separately)

Daylight Sensing: The sensor will determine to trigger the light(s) on or not based on the daylight threshold level set.

Default Settings:

Motion Sensitivity: High

Brightness when triggered : 100%

Hold time: 1 minute (20 minutes for LCB sensors)

Standby to dim: 20%

Standby time: 1 minute

When vacant: Off

Adjustable Settings: Settings for Lightcloud Blue-enabled sensors can be adjusted using the mobile app. All other sensors will require MSR1 Remote 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

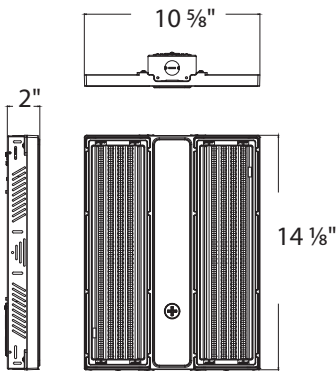
RBAY15 Field-Adjustable, Linear High Bay



DIMENSIONS

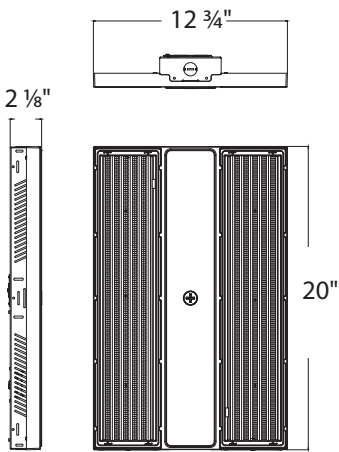
RBAY15S

Weight: 4.4 lbs
Weight: 7.2 lbs, With Battery Backup



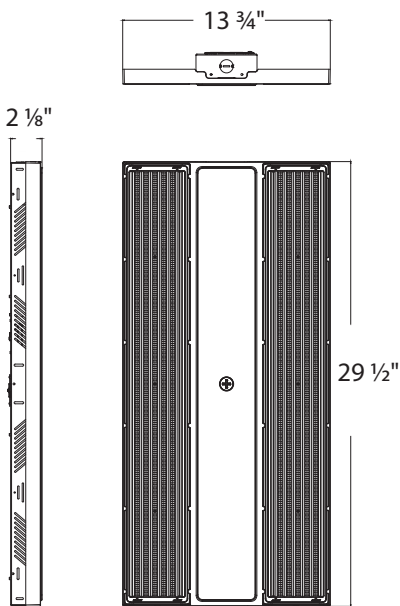
RBAY15M

Weight: 7.87 lbs
Weight: 10.07 lbs, With Battery Backup



RBAY15L

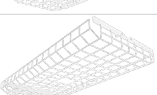
Weight: 12.71 lbs
Weight: 14.95 lbs, With Battery Backup



RBAY15 Field-Adjustable, Linear High Bay



ACCESSORIES

Image	Catalog#	Description	UPC
	PIR20	LOW CEILING LOW VOLTAGE PIR SENSOR WHITE	192552026024
	PIR20/LCB	LC BLUE LOW CEILING LOW VOLT LUMINAIRE CONTROLLER WITH PIR WHITE	192552042246
	MVS20	LOW CEILING LOW VOLTAGE MVS SENSOR WHITE	192552026017
	MVS20/LCB	LC BLUE LOW CEILING LOW VOLT LUMINAIRE CONTROLLER WITH MVS WHITE	19255242253
	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
	PMKRBAY15S	PENDANT MOUNT KIT RBAY15 SMALL	192552045360
	PMKRBAY15	PENDANT MOUNT KIT RBAY15 MEDIUM AND LARGE	192552045377
	SMKRBAY15S	SURFACE MOUNT KIT RBAY15 SMALL	192552045384
	SMKRBAY15	SURFACE MOUNT KIT RBAY15 MEDIUM AND LARGE	192552045391
	GDRBAY15S	WIRE GUARD RBAY15 SMALL WITH 4 SCREWS	192552045339
	GDRBAY15M	WIRE GUARD RBAY15 MEDIUM WITH 4 SCREWS	192552045346
	GDRBAY15L	WIRE GUARD RBAY15 LARGE WITH 4 SCREWS	192552045353

ORDERING MATRIX

RBAY15

Family	Wattage	Color Temp	Mounting	Finish	Driver	Battery Backup
RBAY15						
S	130/100/80W	BLANK 3500/4000/5000K	BLANK V-Hook/Chain	BLANK White	BLANK 120-277V,	BLANK None
M	260/220/160W	CCT Adjustable			0-10V dimming	/E Battery Backup
L	400/320/260W				/480 480V,	
					0-10V dimming	