

WHALE Field-Adjustable, Industrial-Grade Lighting



WHALE2 / WHALE2H



PROJECT: _____

DATE: _____

TYPE: _____

PREPARED BY: _____

WHALE4 / WHALE4H



KEY FEATURES

- Available in standard & high output models with selectable wattages:
WHALE2 (2 ft): 90/75/60W, factory default 90W
WHALE2H (2 ft): 135/100/70W, factory default 135W
WHALE4 (4 ft): 160/140/120W, factory default 160W
WHALE4H (4 ft): 265/225/145W, factory default 265W
- Field-adjustable CCT: 3500/4000/5000K, factory default 4000K
- 120-277V, 0-10V dimming
- Available with smart controls. Multi-sensor remote sold separately.
- Battery backup option available
- Standard surface-mount brackets and V-hooks for chain mounting
- UL Listed for wet locations
- NSF certified, IP67 rated, and IK09 rated.
- 5-Year, limited warranty

The extra-wide, vapor-tight, power and CCT-adjustable washdown

100,000 HOURS

0-10V

FIELD ADJUSTABLE

IP RATING

POWERED BY LIGHTCLOUD

BATTERY BACKUP

IK10 RATING

WET RATED

PERFORMANCE

| WHALE2 | 3500K | 4000K | 5000K | 3500K | 4000K | 5000K | 3500K | 4000K | 5000K |
|-----------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| WATTAGE | 90W | | | 75W | | | 60W | | |
| INPUT WATTS | 90.2W | 88.0W | 90.1W | 76.8W | 75.1W | 76.8W | 66.6W | 65.3W | 66.8W |
| LUMENS | 136,95 | 14,327 | 13,927 | 11,955 | 12,357 | 12,152 | 10,525 | 10,851 | 10,762 |
| EFFICACY (LM/W) | 151.8 | 162.8 | 154.6 | 155.7 | 164.5 | 158.2 | 158.0 | 166.2 | 161.1 |
| CRI | 85 | 86 | 85 | 85 | 86 | 85 | 85 | 86 | 86 |
| VOLTAGE RATINGS | 120-277V | | | | | | | | |

| WHALE2H | 3500K | 4000K | 5000K | 3500K | 4000K | 5000K | 3500K | 4000K | 5000K |
|-----------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| WATTAGE | 135W | | | 100W | | | 70W | | |
| INPUT WATTS | 127.7W | 123.8W | 128.4W | 91.5W | 89.7W | 92.1W | 65.4W | 64.5W | 66.0W |
| LUMENS | 18,795 | 19,460 | 19,064 | 13,989 | 14,466 | 14,321 | 10,310 | 10,561 | 10,567 |
| EFFICACY (LM/W) | 147.2 | 157.2 | 148.5 | 152.9 | 161.3 | 155.5 | 157.6 | 163.7 | 160.1 |
| CRI | 84 | 86 | 85 | 84 | 86 | 85 | 84 | 86 | 85 |
| VOLTAGE RATINGS | 120-277V | | | | | | | | |

WHALE Field-Adjustable, Industrial-Grade Lighting



PERFORMANCE (CONTINUE)

| WHALE4 | 3500K | 4000K | 5000K | 3500K | 4000K | 5000K | 3500K | 4000K | 5000K |
|-----------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| WATTAGE | 160W | | | 140W | | | 120W | | |
| INPUT WATTS | 158.0W | 153.2W | 157.5W | 134.6W | 131.2W | 134.4W | 114.6W | 112.0W | 114.8W |
| LUMENS | 23,775 | 24,462 | 23,848 | 20,738 | 21,313 | 20,866 | 17,991 | 18,434 | 18,197 |
| EFFICACY (LM/W) | 150.5 | 159.7 | 151.4 | 154.1 | 162.4 | 155.3 | 157.0 | 164.6 | 158.5 |
| CRI | 85 | 86 | 85 | 85 | 86 | 85 | 85 | 86 | 85 |
| VOLTAGE RATINGS | 120-277V | | | | | | | | |

| WHALE4H | 3500K | 4000K | 5000K | 3500K | 4000K | 5000K | 3500K | 4000K | 5000K |
|-----------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| WATTAGE | 265W | | | 225W | | | 145W | | |
| INPUT WATTS | 252.5W | 246.5W | 254.1W | 214.1W | 209.3W | 215.5W | 136.5W | 134.1W | 137.4W |
| LUMENS | 36,983 | 38,081 | 37,710 | 32,217 | 33,135 | 32,912 | 21,705 | 21,860 | 21,989 |
| EFFICACY (LM/W) | 146.5 | 154.5 | 148.4 | 150.5 | 158.3 | 152.7 | 159.0 | 163.0 | 160.0 |
| CRI | 84 | 86 | 85 | 84 | 86 | 85 | 84 | 86 | 85 |
| VOLTAGE RATINGS | 120-277V | | | | | | | | |

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

Suitable for wet locations

IP Ratings

Ingress Protection rating of IP66 for dust and water

NSF

NSF certified by public health and safety

IK Ratings

IK10 rated for protection against impact

IESNA LM-79 & LM-80 Testing

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80

DLC Listed

This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

| CATALOG# | DLC ID |
|---|----------|
| Stairwell and Passageway Luminaires: | |
| WHALE2 | S-YHRHQ |
| WHALE2H | S-DC3JVX |
| WHALE4 | S-P3YF6D |
| WHALE4H | S-3M6RH4 |
| High-Bay Luminaires Commercial & Industrial Buildings: | |
| WHALE2 | S-6J5K4S |
| WHALE2H | S-WZCD7L |
| WHALE4 | S-WX78XF |
| WHALE4H | S-LQ560N |

CONSTRUCTION

Cold Weather Starting

The minimum starting temperature is -40°C (-40°F)

Cold Weather Starting w/battery back-up

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

Maximum Ambient Temperature

Suitable for use in up to 40°C (104°F)

Maximum Ambient Temperature w/ battery back-up

Suitable for use in up to 60°C (140°F)

Mounting

Stainless steel, surface-mount brackets and v-hooks are supplied.

Housing

Polycarbonate

Lens

Polycarbonate

Gasket

Silicone

Finish

Formulated for high durability and long-lasting color

Green Technology

Mercury and UV free. RoHS-compliant components.

FACTORY DEFAULT

Selectable Wattages

WHALE2 (2 ft): 90/75/60W, factory default 90W

WHALE2H (2 ft): 135/100/70W, factory default 135W

WHALE4 (4 ft): 160/140/120W, factory default 160W

WHALE4H (4 ft): 265/225/145W, factory default 265W

Selectable Color Temperature: 3500/4000/5000K, factory default 4000K

TECHNICAL SPECIFICATIONS (CONTINUED)

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.

ELECTRICAL

Drivers:

None insulation, Control circuit class 2, 120-277V, 50/60 Hz,
 WHALE2: 90W: 120V: 0.75A, 208V: 0.43A, 240V: 0.38A, 277V: 0.32A
 WHALE2: 75W: 120V: 0.63A, 208V: 0.36A, 240V: 0.31A, 277V: 0.27A
 WHALE2: 60W: 120V: 0.50A, 208V: 0.29A, 240V: 0.25A, 277V: 0.22A

WHALE2H: 135W: 120V: 1.13A, 208V: 0.65A, 240V: 0.56A, 277V: 0.49A
 WHALE2H: 100W: 120V: 0.83A, 208V: 0.48A, 240V: 0.42A, 277V: 0.36A
 WHALE2H: 70W: 120V: 0.50A, 208V: 0.29A, 240V: 0.25A, 277V: 0.22A

WHALE4: 160W: 120V: 1.33A, 208V: 0.77A, 240V: 0.67A, 277V: 0.58A
 WHALE4: 140W: 120V: 1.17A, 208V: 0.67A, 240V: 0.58A, 277V: 0.51A
 WHALE4: 120W: 120V: 1.00A, 208V: 0.58A, 240V: 0.50A, 277V: 0.43A

WHALE4H: 265W: 120V: 2.21A, 208V: 1.27A, 240V: 1.10A, 277V: 0.96A
 WHALE4H: 225W: 120V: 1.88A, 208V: 1.08A, 240V: 0.94A, 277V: 0.81A
 WHALE4H: 145W: 120V: 1.21A, 208V: 0.70A, 240V: 0.60A, 277V: 0.52A

Dimming Driver:

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

THD / Power Factor:

| MODEL# @ 4000K | THD | PF | THD | PF |
|-------------------|------|-------|-------|-------|
| | 120V | | 277V | |
| WHALE2 @90W | 3.6% | 99.8% | 3.5% | 97.3% |
| WHALE2H @135W | 4.2% | 99.8% | 8.4% | 94.9% |
| WHALE4 @160W | 3.9% | 99.8% | 10.2% | 97.4% |
| WHALE4H @265W | 4.8% | 99.9% | 9.8% | 97.0% |

Surge Protection

Ringwave LN4kV/LN-GND 6kV

Battery Backup Light Loss Factor:

Powers the fixture for a minimum of 90 minutes in the event of a power failure

| MODEL# | LIGHT LOSS FACTOR |
|-----------------|-------------------|
| WHALE2/E @60W | 0.13 |
| WHALE2/E @75W | 0.21 |
| WHALE2/E @90W | 0.18 |
| WHALE2H/E @60W | 0.13 |
| WHALE2H/E @100W | 0.16 |
| WHALE2H/E @135W | 0.12 |
| WHALE4/E @120W | 0.21 |
| WHALE4/E @140W | 0.18 |
| WHALE4/E @160W | 0.16 |
| WHALE4H/E @145W | 0.17 |
| WHALE4H/E @225W | 0.11 |
| WHALE4H/E @265W | 0.09 |

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

WIRELESS NETWORK LIGHTING CONTROL

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.

OCCUPANCY SENSORS

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: 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-hours LED Lifespan based on IES LM-80 results and TM-21 calculations

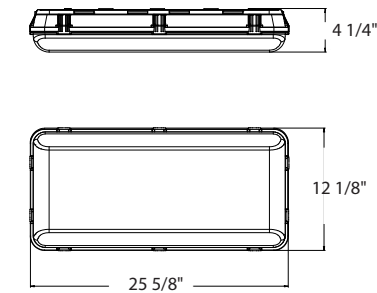
WHALE Field-Adjustable, Industrial-Grade Lighting



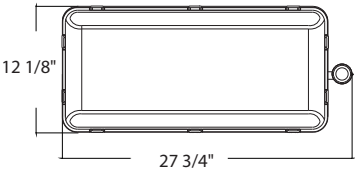
DIMENSIONS

WHALE2 / WHALE2H

Weight: 11.6 lbs

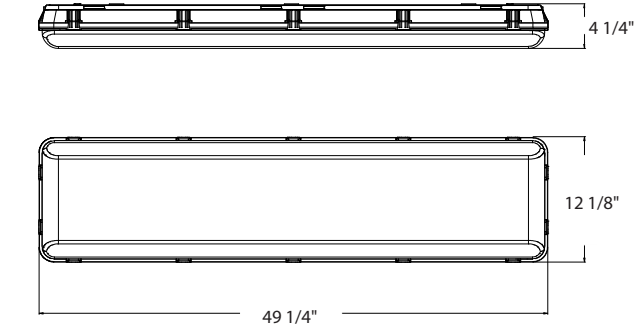


Models With Sensor:

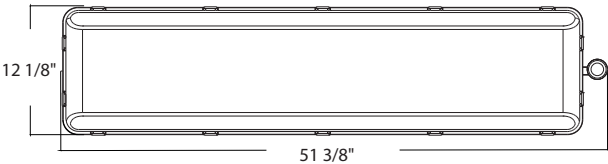


WHALE4 / WHALE4H

Weight: 23.37 lbs



Models With Sensor:



ACCESSORIES

| IMAGE | SKU# | UPC | DESCRIPTION |
|-------|------|--------------|----------------------------------|
| | MSR1 | 192552026055 | MULTI-SENSOR REMOTE CONTROL IP20 |

ORDERING MATRIX

WHALE Field-Adjustable Linear Washdown Light

| Family | Size/Wattages | Mounting | Color Temperature | Finish | Driver | Options |
|--------|-------------------|---------------|-------------------|--------|---------------|-----------------|
| WHALE | | | | | | |
| 2 | 2ft, 90/75/60W | BLANK | BLANK | BLANK | 120-277V, | BLANK |
| 2H | 2ft, 135/100/70W | Metal Bracket | 3500/4000/5000K | Gray | 0-10V Dimming | /E |
| 4 | 4ft, 160/140/120W | and V- Hooks | | | | /MVS |
| 4H | 4ft, 265/225/145W | | | | | /PIR |
| | | | | | | /LCBS |
| | | | | | | /LCBS/MVS |
| | | | | | | /MVS/E |
| | | | | | | /Battery Backup |
| | | | | | | /PIR/E |
| | | | | | | /Battery Backup |
| | | | | | | /LCBS/E |
| | | | | | | /Battery Backup |
| | | | | | | /LCBS/MVS/E |
| | | | | | | /Battery Backup |