

# 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

IK09 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

### 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.

### 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

IK09 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.

### COMPLIANCE

#### DLC ID:

CATALOG#	DLC ID
<b>Stairwell and Passageway Luminaires:</b>	
WHALE2	S-YHRHQR
WHALE2H	S-DC3JVX
WHALE4	S-P3YF6D
WHALE4H	S-3M6RH4
<b>High-Bay Luminaires Commercial &amp; Industrial Buildings:</b>	
WHALE2	S-6J5K4S
WHALE2H	S-WZCD7L
WHALE4	S-WX78XF
WHALE4H	S-LQ560N

### 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)

### 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%)

### CONSTRUCTION

#### Cold Weather Starting

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

#### Cold Weather Starting for battery back-up

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

#### Maximum Ambient Temperature

MODEL#	Max. Ambient Temperature	
	Surface Mount	Suspended Mount
WHALE2 @65W	-40 to 55°C (-40° to 131° F)	-40 to 60°C (-40° to 140° F)
WHALE2 @75W	-40 to 55°C (-40° to 131° F)	-40 to 60°C (-40° to 140° F)
WHALE2 @90W	-40 to 50°C (-40° to 122° F)	-40 to 55°C (-40° to 131° F)
WHALE2H @70W	-40 to 55°C (-40° to 131° F)	-40 to 60°C (-40° to 140° F)
WHALE2H @100W	-40 to 55°C (-40° to 131° F)	-40 to 58°C (-40° to 136° F)
WHALE2H @135W	-40 to 50°C (-40° to 122° F)	-40 to 55°C (-40° to 131° F)
WHALE4 @120W	-40 to 55°C (-40° to 131° F)	-40 to 60°C (-40° to 140° F)
WHALE4 @140W	-40 to 55°C (-40° to 131° F)	-40 to 60°C (-40° to 140° F)
WHALE4 @160W	-40 to 50°C (-40° to 122° F)	-40 to 55°C (-40° to 131° F)
WHALE4H @145W	-40 to 55°C (-40° to 131° F)	-40 to 60°C (-40° to 140° F)
WHALE4H @225W	-40 to 55°C (-40° to 131° F)	-40 to 55°C (-40° to 131° F)
WHALE4H @265W	-40 to 50°C (-40° to 122° F)	-40 to 55°C (-40° to 131° F)

#### Maximum Ambient Temperature for 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.

### 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](http://rablighting.com/warranty).

#### Lifespan

100,000-hours LED Lifespan based on IES LM-80 results and TM-21 calculations

## TECHNICAL SPECIFICATIONS (CONTINUED)

### 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](http://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 (CONTINUED)

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

### 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)

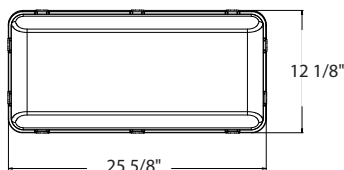
Max Mounting Height: 40 ft. (PIR); 50 ft. (MVS)

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)

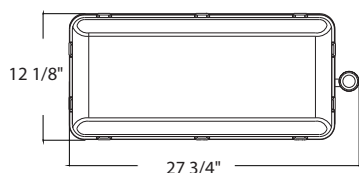
## DIMENSIONS

### WHALE2 / WHALE2H

Weight: 11.6 lbs

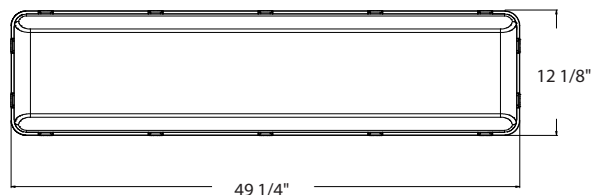


#### Models With Sensor:

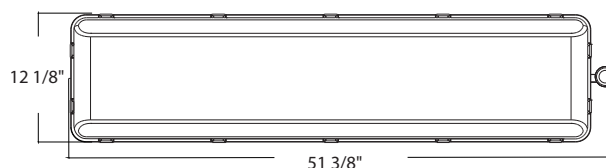


### WHALE4 / WHALE4H

Weight: 23.37 lbs



#### Models With Sensor:



# WHALE Field-Adjustable, Industrial-Grade Lighting



## 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	Metal Bracket	BLANK	3500/4000/5000K	BLANK	No Option
2H	2ft, 135/100/70W		and V- Hooks			BLANK	Battery Backup
4	4ft, 160/140/120W			BLANK	Gray	BLANK	/E
4H	4ft, 265/225/145W					120-277V, 0-10V Dimming	/MVS
							/PIR
							/LCBS
							/LCBS/MVS
							/MVS/E
							/Battery Backup
							/PIR/E
							/Battery Backup
							/LCBS/E
							/Battery Backup
							/LCBS/MVS/E
							/Battery Backup