

# SHARK Field-Adjustable Linear Washdown



## SHARK2



## SHARK4



## SHARK8



### Field-Adjustable Strip Light



PROJECT: \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE: \_\_\_\_\_

PREPARED BY: \_\_\_\_\_



### KEY FEATURES

- Available models with selectable wattages:  
**2 Ft:** 25/20/15W, factory default 25W  
**4 Ft:** 50/40/30W, factory default 50W  
**8 Ft:** 100/80/60W, factory default 100W
- Field-adjustable CCT: **3500/4000/5000K**, factory default **4000K**
- **Voltage rating 120-277V**
- Impact-resistant **polycarbonate** housing
- Available with **smart controls**. **Multi-sensor** remote sold separately
- Battery backup available
- Standard surface-mount brackets and V-hooks for chain mounting. Additional mounting accessory kits available
- UL Listed for **wet** locations. UL Marine listed models available.
- All standard modles are NSF certified and IP66 rated. Marine Listed models are not NSF certified
- 5-year, no-compromise warranty

## TECHNICAL SPECIFICATIONS

### COMPLIANCE

#### UL Listed

Suitable for wet locations. UL Marine listed.

#### 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 on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. Designed to meet DLC 5.1 requirements.

CATALOG#	DLC ID	PRIMARY USE
SHARK2	S-W04BEC	Stairwell and Passageway Luminaires
SHARK2	S-V3CE02	Direct Linear Ambient Luminaires
SHARK4	S-V8PXF8	Low-bay Luminaires Commercial & Industrial buildings
SHARK4	S-ICZWTG	Direct Linear Ambient Luminaires
SHARK4	S-QEWAXU	Stairwell and Passageway Luminaires
SHARK8	S-LQTB85	High-bay Luminaires Commercial & Industrial buildings
SHARK8	S-SRVU3Q	Direct Linear Ambient Luminaires
SHARK8	S-IBLSR8	Stairwell and Passageway Luminaires

#### IP Ratings

Ingress Protection rating of IP66 for dust and water

#### NSF

NSF certified by public health and safety

### 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

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

#### Maximum Ambient Temperature for battery back-up

Suitable for use in up to 40°C (102°F)

#### Mounting

Stainless steel, surface-mount brackets and v-hooks are supplied. Accessory kits available for angled surface, junction box, or tamperproof mounting.

#### Housing

Polycarbonate

#### Lens

Textured, diffuse polycarbonate lens for low glare and maximum protection

#### Gasket

Silicone foam

#### Finish

Formulated for high durability and long-lasting color

#### Green Technology

Mercury and UV free. RoHs-compliant components.

## 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.

### ELECTRICAL

#### Drivers:

Constant Current, Class 2, 120-277V, 50/60 Hz,  
SHARK2 25W: 120V: 0.21A, 208V: 0.12A, 240V: 0.11A, 277V: 0.10A  
SHARK2 20W: 120V: 0.17A, 208V: 0.10A, 240V: 0.09A, 277V: 0.08A  
SHARK2 15W: 120V: 0.13A, 208V: 0.09A, 240V: 0.08A, 277V: 0.07A  
SHARK4 50W: 120V: 0.42A, 208V: 0.24A, 240V: 0.21A, 277V: 0.19A  
SHARK4 40W: 120V: 0.35A, 208V: 0.20A, 240V: 0.17A, 277V: 0.15A  
SHARK4 30W: 120V: 0.26A, 208V: 0.15A, 240V: 0.13A, 277V: 0.12A  
SHARK8 100W: 120V: 0.82A, 208V: 0.48A, 240V: 0.42A, 277V: 0.36A  
SHARK8 80W: 120V: 0.66A, 208V: 0.40A, 240V: 0.35A, 277V: 0.30A  
SHARK8 60W: 120V: 0.48A, 208V: 0.30A, 240V: 0.25A, 277V: 0.23A

#### Dimming Driver:

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

#### THD:

SHARK2: 3.37% at 120V, 2.15% at 277V  
SHARK4: 2.80% at 120V, 3.03% at 277V  
SHARK8: 3.26% at 120V, 11.62% at 277V

#### Power Factor:

SHARK2: 95.6% at 120V, 99.8% at 277V  
SHARK4: 99.9% at 120V, 97.7% at 277V  
SHARK8: 99.9% at 120V, 96.1% at 277V

#### Surge Protection

2.5kV

#### Battery Backup Light Loss Factor:

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

#### Battery Backup Light Loss Factor:

SHARK2: 0.232  
SHARK4: 0.207  
SHARK8: 0.104

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

### LIGHTCLOUD

#### Lightcloud Controller Installed:

- Integrated/embedded networked lighting control
- Luminaire-level lighting control
- Fixture, Zone, and plug-load control from one powerful device
- LLLC - Capable of switching, 0-10V dimming, power/energy monitoring
- Can also be used to extend the range of Lightcloud
- Mesh network communication protocols
- Offers the capability to set the maximum light output to a less-than-maximum state of an individual luminaire at the time of installation or commissioning. The High-End Trim functionality is field reconfigurable via the Lightcloud mesh network communication protocols.
- The Lightcloud Controller can be attached to the fixture, junction box, or electrical panel
- DLC system - N1XMLOEATBA
- Communication Protocol: Zigbee
- Line of Sight: 1,000 feet
- Obstructions: 100 feet

#### Lightcloud Blue Installed

- Integrated/embedded networked lighting control
- Luminaire-level lighting control
- Fixture, Zone, and plug-load control from one powerful device
- LLLC - Capable of switching, 0-10V dimming, power/energy monitoring
- Can also be used to extend the range of Lightcloud Blue
- Utilizes a "BLE Mesh" network communication protocol
- Offers the capability to set the maximum light output to a less-than-maximum state of an individual luminaire at the time of installation or commissioning. The High-End Trim functionality is field reconfigurable via the Lightcloud "BLE Mesh" network communication protocols.
- The Lightcloud Blue Controller is designed to be attached to the fixture directly.
- DLC system - N1XMLOEATBA
- Gateway Required: No
- Communication Protocol: Bluetooth Mesh
- Range: Up to 60 feet between standard building materials. Up to 200 feet clear line of sight.
- Spacing Criteria: Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooth Mesh network.

### MICROWAVE OCCUPANCY SENSOR W/DAYLIGHT SENSING, MULTI-FUNCTION SENSOR (OPTIONAL)

- Operating Voltage: 12V DC
- Operating Current:  $\leq 25\text{mA}$
- Detection Area: 25%/50%/75%/100%
- Maximum Mounting Height: 20 ft
- Customizable Detection Area: 10, 50, 75 or 100%
- Hold Time : 5s, 30s, 1min, 3min, 5min, 10min, 20min, 30min
- Cut-Off Period: 0s/10s/30s/1min/5min/10min/30min/+  $\infty$
- Cut-Off Dimming level: 10, 20, 30, 50%
- Cut-Off Power:  $\leq 0.5\text{W}$
- Daylight Threshold: 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable
- Sensor Principle: High Frequency
- Microwave Frequency: 5.8GHz +/- 75MHz
- Microwave Power:  $< 0.3\text{mW}$
- Max Detection Range: 46 ft.
- Operating Temperature: -20°C to +60°C (-4°F to +140°F)
- Remote Control: Adjust settings using remote control (catalog# MSR1). Only available with 0-10V dimming driver options.

# SHARK Field-Adjustable Linear Washdown



## TECHNICAL SPECIFICATIONS

### PIR SENSOR

PIR Sensor Factory Settings:

- Brightness: 100%
- Hold Time: 1 Minute
- Daylight: Disabled
- Sensitivity: 100%
- Stand-By Dimming Level: 20%
- Stand-By Time: 1 Minute
- Operating Voltage: 12 ± 2V DC
- Operating Current: 30mA
- Output: DIM 0-10V
- Stand-By Power: <0.5W
- Brightness: 0%-100%/Quick setting: 70%/80%/90%/100%
- Hold Time: 10s/1min/10min/30min
- Daylight Threshold: 10Lux/30Lux/50Lux/100Lux/Disable
- Lux On-Off: Adopted dual PD technology
- Stand-By Time: 1min/30min/60min/+∞
- Stand-By Dimming Level: 10%/20%/30%/50%
- Detection Angle: ≤120° (wall mounted) 360° (ceiling mounted)
- Control Line: Black White 12V+ ; Purple: DIM+ ; Pink GND/DIMMounting
- Height: Max 6M (ceiling mounted)
- Detection Range: Max 8m (ceiling mounted) Max 6m(wall mounted)
- Operating Temperature: -30°C to 60°C (-22°F to 140°F)

### MAXIMUM MOUNTING HEIGHT FOR SENSORS

SENSOR	MAX MOUNTING HEIGHT
MVS	20 ft
PIR	20 ft
MVS50 (LCB)	49 ft
PIR40 (LCB)	39 ft

### PERFORMANCE

#### Lifespan

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

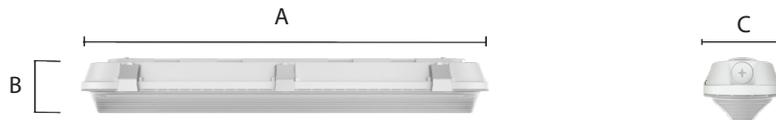
#### OTHER

#### Warranty

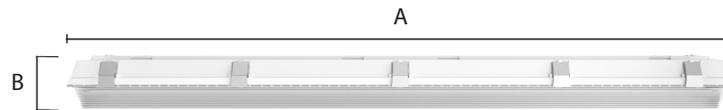
The RAB 5-year, no-compromise warranty covers light output, color stability, driver performance, paint finish and labor. RAB's warranty is subject to all terms and conditions found at [rablighting.com/warranty](http://rablighting.com/warranty).

## DIMENSIONS

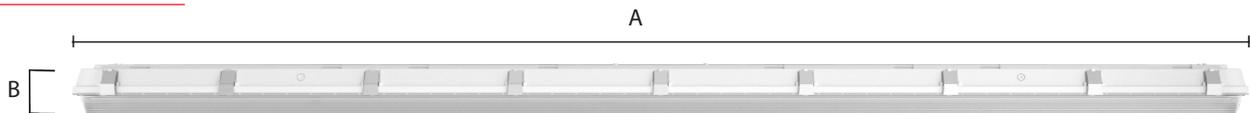
### SHARK2



### SHARK4



### SHARK8



MODEL#	A	B	C	Weight (Lbs)
SHARK2	25 5/8"	4 1/8"	5 1/2"	6.94
SHARK4	48"	4 1/8"	5 1/2"	13.11
SHARK8	93"	4 1/8"	5 1/2"	25.57

# SHARK Field-Adjustable Linear Washdown



## ACCESSORIES

IMAGE	SKU#	UPC	DESCRIPTION
	ANGSHARK-G2	019813835341	SHARK 2-4FT ANGULAR STAINLESS STEEL CORNER BRACKET SCREWS
	ANGSHARK8-G2	019813835358	SHARK 8FT ANGULAR STAINLESS STEEL CORNER BRACKET SCREWS
	JBSHARK-G2	019813835327	SHARK 2FT 4FT JBOX STAINLESS STEEL MTG PLATE GASKET SCREWS
	JBSHARK8-G2	019813835334	SHARK 8FT JBOX STAINLESS STEEL MTG PLT GASKET SCREWS
	TPKSHARK-G2	019813835365	SHARK 2FT 4FT STAINLESS STEEL TAMPERPROOF KIT BRACKET SCREWS
	TPKSHARK8-GE	019813835372	SHARK 8FT STAINLEES STEEL TAMPERPROOF KIT BRACKET SCREWS
	MSR1	192552026055	MULTI-SENSOR REMOTE CONTROL IP20

## PERFORMANCE

SHARK2/SHARK2M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTAGE	25W			20W			15W		
INPUT WATTS	25.5W	24.9W	25.7W	20.4W	20W	20.6W	16.3W	16W	16.4W
LUMENS	3,509	3,683	3,565	2,843	2,964	2,892	2,270	2,346	2,314
EFFICACY (LM/W)	137.6	148.2	138.7	139.4	148.2	140.4	139.3	146.6	141.1
CRI	83	85	85	83	85	85	83	85	85
VOLTAGE RATINGS	120-277V								

SHARK4/SHARK4M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTAGE	50W			40W			30W		
INPUT WATTS	49.8W	48.6W	50.7W	41.1W	40.1W	41.4W	30.6W	30.1W	30.8W
LUMENS	6,926	7,323	7,070	5,877	6,140	5,966	4,489	4,658	4,569
EFFICACY (LM/W)	139.1	150.7	139.4	143.0	153.1	144.1	146.7	154.8	148.3
CRI	84	85	85	84	85	85	84	86	85
VOLTAGE RATINGS	120-277V								

# SHARK Field-Adjustable Linear Washdown



PERFORMANCE									
SHARK8/SHARK8M	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTAGE	100W			80W			60W		
INPUT WATTS	98.5W	95W	98.6W	79.3W	76.7W	79W	57.8W	56.3W	57.7W
LUMENS	13,287	14,201	13,732	11,467	11,732	11,452	8,585	9,035	8,649
EFFICACY (LM/W)	134.9	149.5	139.3	144.6	153.0	145.0	148.5	160.5	149.9
CRI	84	86	85	84	86	85	84	86	85
VOLTAGE RATINGS	120-277V								

## ORDERING MATRIX

### SHARK Field-Adjustable Linear Washdown

Family	Size/Wattages	Mounting	Color Temperature	Finish	Voltage	Options					
<b>SHARK</b>											
2	2 Feet (25/20/15W)	<b>BLANK</b>	Metal Bracket	<b>BLANK</b>	3500/4000/5000K	<b>BLANK</b>	White	<b>BLANK</b>	120-277V,	<b>BLANK</b>	No Option
2M	2 Feet (25/20/15W) Marine Listed		with hooks						0-10V Dimming	/E	Battery Backup
4	4 Feet (50/40/30W)									/LC	Lightcloud Controller
4M	4 Feet (50/40/30W) Marine Listed									/MVS	Microwave Occupancy Sensor
8	8 Feet (100/80/60W)									/PIR	Passive Infrared Occupancy Sensor
8M	8 Feet (100/80/60W) Marine Listed									/LCBS	Lightcloud Blue PIR Sensor
										/LCBS/MVS	Lightcloud Blue MVS Sensor
										/MVS/E	Microwave Occupancy Sensor /Battery Backup
										/PIR/E	Passive Infrared Occupancy Sensor /Battery Backup
										/LCBS/E	Lightcloud Blue PIR Sensor /Battery Backup
										/LCBS/MVS/E	Lightcloud Blue MVS Sensor /Battery Backup