



# Linear Highbay

## LH4S



The LHS-LED series delivers versatile, high-efficiency linear highbay luminaires with selectable features and a compact design. Durable and contractor-friendly, it's perfect for industrial and commercial applications, replacing HID and fluorescent systems. With Controlled capability, it integrates plug-and-play motion and daylight sensors wirelessly and with bluetooth mesh network, providing advanced lighting control without hubs or gateways.

IDEAL APPLICATIONS

- ✔ Large Distribution Centers

✔ Factories

✔ Gymnasiums

✔ Service Bays

✔ Big-Box Retail

SPECIFICATIONS

| PERFORMANCE                    |                                              |
|--------------------------------|----------------------------------------------|
| Light Output                   | Lumen Selectable                             |
|                                | 69400/65200/58700/52200 lm                   |
| Efficacy                       | 163lm/W                                      |
| CCT                            | 4000K/5000K (CCT Selectable)                 |
| Beam Distribution              | Wide (90°x90°)                               |
| Replaces up to                 | 1000W MH                                     |
| CRI                            | 85                                           |
| ELECTRICAL                     |                                              |
| Wattage                        | 440/400/360/320W                             |
| Voltage                        | 120-347V                                     |
| Surge Protection               | 6kV (Built-in Driver) as per IEC/EN61000-4-5 |
| Power Factor                   | 0.99                                         |
| THD                            | <3%                                          |
| Cord                           | Pre-installed 10' Power Cable (3x18 AWG)     |
| Battery Backup                 | 9W (Option Available)                        |
| CONSTRUCTION                   |                                              |
| Housing                        | Die-cast Aluminum                            |
| Paint                          | Glossy White, Polyester Powder Coat          |
| Lens                           | Glare-free Polycarbonate                     |
| Weight                         | 12.8lbs                                      |
| AMBIENT OPERATING TEMPERATURE  |                                              |
| -40°C to 50°C (-40°F to 122°F) |                                              |

| MOUNTING                                                                                      |                                                                                                        |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Suspension Mount - V-Hooks & Chain (Included), Aircraft Cable<br>Surface Mount, Pendant Mount |                                                                                                        |
| CERTIFICATIONS                                                                                |                                                                                                        |
| cULus Listed for Canada and USA, per UL 1598, CSA C22.2 No. 250.0, DLC Premium                |                                                                                                        |
| CONTROLS                                                                                      |                                                                                                        |
| Dimming                                                                                       | 0-10V (Dim to Off) 10%-100%                                                                            |
| Sensor                                                                                        | PIR/Microwave Motion Sensor/Dimmer with Remote Control, Bluetooth PIR Motion & Daylight Harvest Sensor |
| Switch                                                                                        | Bluetooth Line Voltage switch                                                                          |
| LUMEN MAINTENANCE                                                                             |                                                                                                        |
| L80                                                                                           | L90                                                                                                    |
| >100,000 hrs                                                                                  | >60,000 hrs                                                                                            |
| MAX AMPERAGE DRAW (A)                                                                         |                                                                                                        |
| 120V                                                                                          | 4.074                                                                                                  |
| 208V                                                                                          | 2.350                                                                                                  |
| 240V                                                                                          | 2.037                                                                                                  |
| 277V                                                                                          | 1.765                                                                                                  |
| 347V                                                                                          | 1.409                                                                                                  |

**Note:** Electrical and light performance data is based on LM79 test reports, measured at maximum wattage, 4000K, and 120V.

Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 calculations.










## ORDERING GUIDE

| LH4S    | LED440A320 | H            | VK                                 | W                                    | WHT         | DIM                 |                                                       |
|---------|------------|--------------|------------------------------------|--------------------------------------|-------------|---------------------|-------------------------------------------------------|
| Fixture | Wattage    | Voltage      | Colour Temp.                       | Beam Distribution                    | Finish      | Dimming             | Battery Backup                                        |
| LH4S    | LED440A320 | H - 120-347V | VK - CCT Selectable (4000K/ 5000K) | W - Wide Beam Distribution (90°x90°) | WHT - White | DIM - 0-10V Dimming | BLANK - No Battery Backup<br>BBK9 - 9W Battery Backup |

Default Setting: 440W, 4000K

### STOCK CODE

084597

LH4S-LED440A320-H-VK-W-WHT-DIM

### INCLUDED IN THE BOX

PRE-INSTALLED 10 FT POWER CORD



V HOOKS & 6 FT SUSPENSION CHAIN



### ACCESSORIES SOLD SEPARATELY

081960

AIRCRAFT CABLE - 10 FT LENGTH



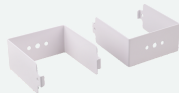
084210

HIGHBAY BLUETOOTH PIR MOTION/DLH SENSOR & ADAPTER



084616

LH4S SURFACE MOUNT KIT



084215

BLUETOOTH 3-KEY AC LINE VOLTAGE WALL SWITCH



084617

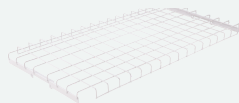
LH4S PENDANT MOUNT KIT



<sup>1</sup> Occupancy sensing can be disabled to use as a dimmer only.

084618

LH4S WIRE GUARD



080909

MICROWAVE SENSOR (50 ft max height)<sup>1</sup>



081300

PIR SENSOR 1 (20ft max height)<sup>1</sup>

081837

PIR SENSOR 2 (40ft max height)<sup>1</sup>

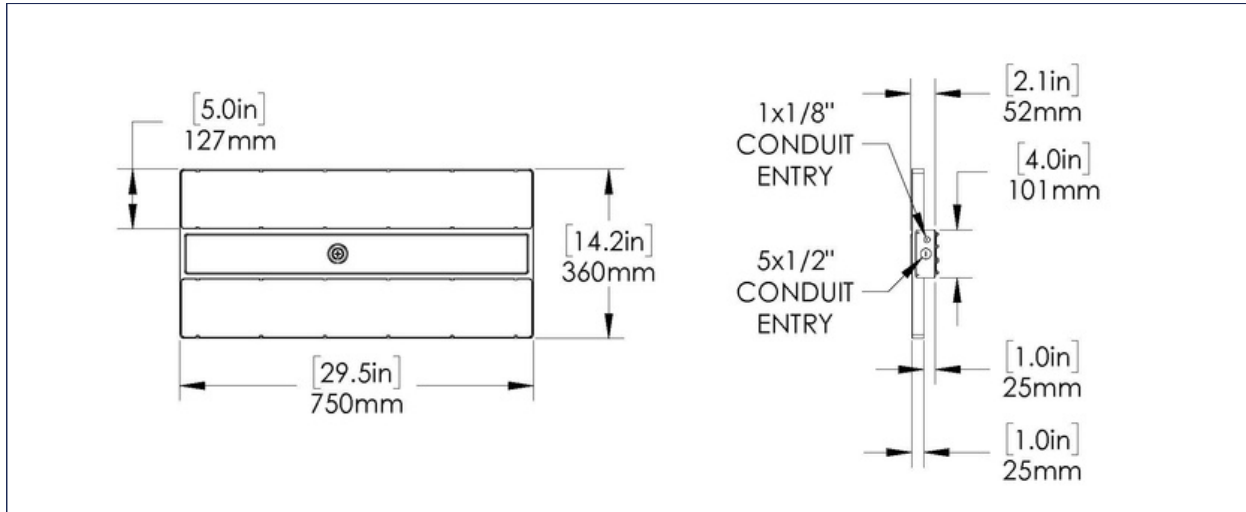
080970

MOTION SENSOR REMOTE CONTROL

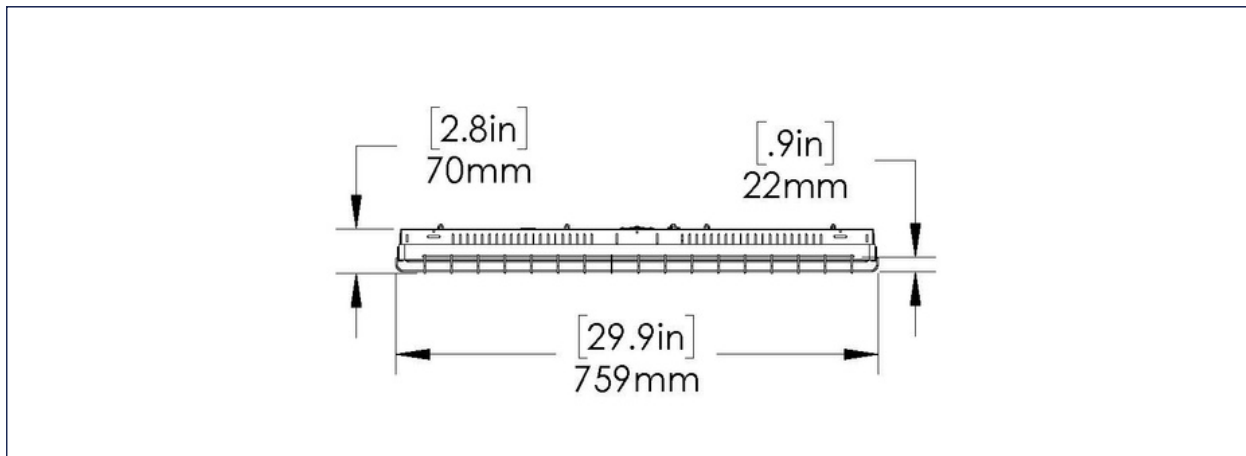


## DIMENSIONS

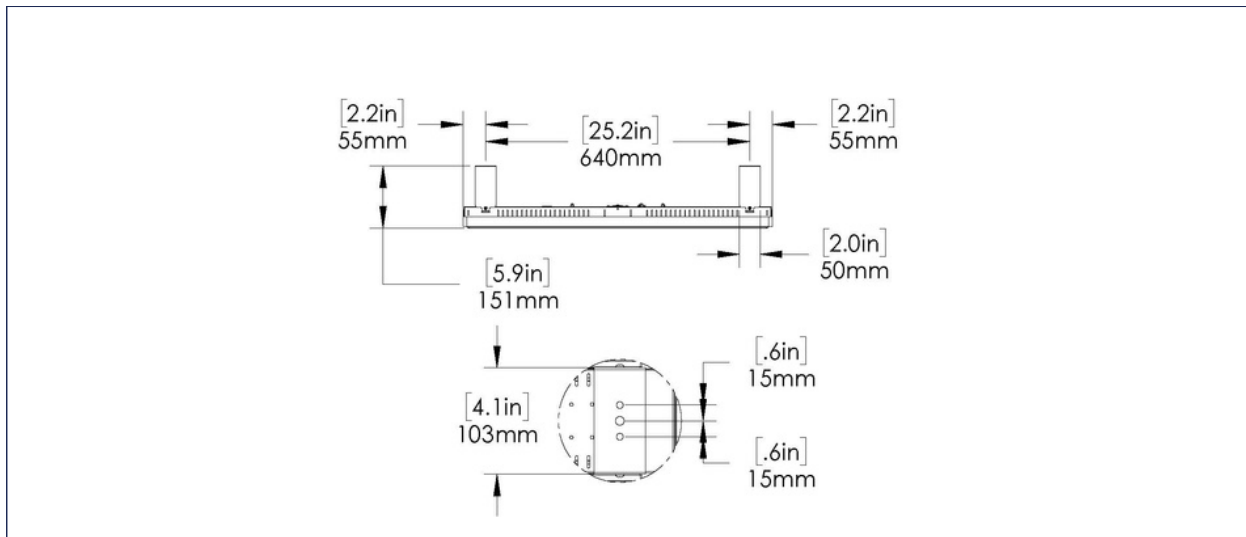
### LH4S FIXTURE



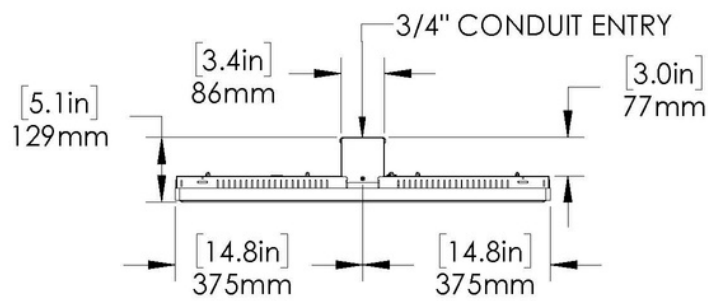
### LH4S WIRE GUARD



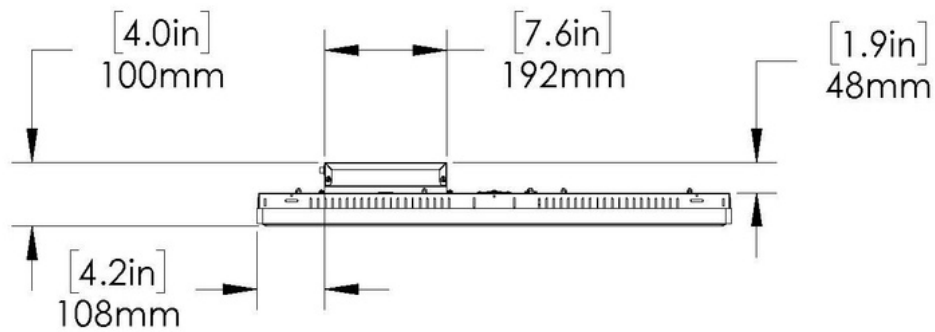
### LH4S SURFACE MOUNT KIT



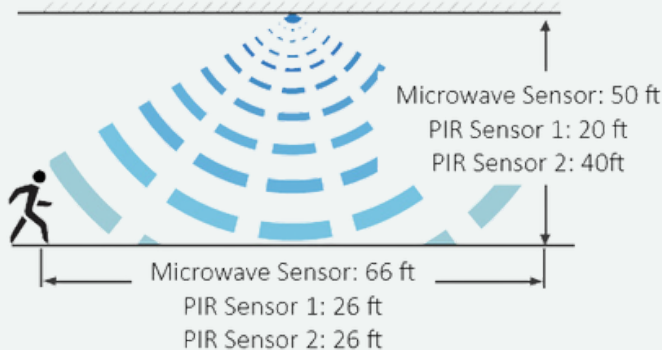
## LH4S PENDANT MOUNT KIT



## LH4S BATTERY BACKUP



**MOTION SENSOR SPECIFICATIONS - PROGRAM USING REMOTE CONTROL**

|                                            |                                                                                    |
|--------------------------------------------|------------------------------------------------------------------------------------|
| Sensor Type                                | Microwave & PIR                                                                    |
| Microwave Frequency                        | 5.8GHz +/- 75MHz                                                                   |
| Operating Voltage                          | 12VDC                                                                              |
| Operating Current                          | 30mA                                                                               |
| Output Voltage                             | 0-10V                                                                              |
| Stand-by Power                             | <0.5W                                                                              |
| Detection Range                            |  |
| Maximum Detection Angle                    | 360°                                                                               |
| Ambient Operating Temperature <sup>1</sup> | -30°C to 60°C (-22F to 140F)                                                       |
| Indoor/Outdoor Use                         | Both Indoor & Outdoor                                                              |
| IP Rating                                  | IP65                                                                               |
| Installation                               | Field installed - Wireless Plug & Play                                             |

**MOTION SENSOR PROGRAMMING**

|                  |                                      |
|------------------|--------------------------------------|
| Programming Tool | Highbay Motion Sensor Remote Control |
| Brightness       | 70%/80%/90%/100%*                    |
| Sensitivity      | 20%/50%/75%/100%*                    |
| Hold Time        | 10s/1min*/10min/30min                |
| Daylight Sensor  | 10Lux/30Lux/50Lux/100Lux/Disabled*   |
| Standby Dim      | 10%/20%*/30%/50%                     |
| Standby Time     | 1min*/30min/60min/+∞                 |

- Default settings marked with \*
- Default Setting: After no motion for 1min (hold time), the fixture will dim from 100% (brightness) to 20% (stand-by dim level). After no motion for another 1 min (stand-by time), the fixture will turn off.
- For instructions on programming the motion sensor remote control, please see the Installation Instructions.
- <sup>1</sup>When installed in the fixture, the system's ambient operating temperature is limited by the component with the lowest allowable range.

**BATTERY BACKUP SPECIFICATIONS**

|                                            |                                                                       |
|--------------------------------------------|-----------------------------------------------------------------------|
| Input Power                                | 8W                                                                    |
| Input Voltage                              | 120-347V                                                              |
| Output Power (Emergency Mode)              | 9W                                                                    |
| Recharge Current                           | 0-500mA                                                               |
| Recharge Time                              | 24 to 48 Hrs                                                          |
| Discharge Time                             | 90 min                                                                |
| Ambient Operating Temperature <sup>1</sup> | 0°C to 60°C (32F to 140F)                                             |
| Service Life                               | 50,000 Hrs                                                            |
| IP Rating                                  | IP20                                                                  |
| Installation                               | Factory installed in a junction box that comes mounted on the fixture |
| Light Output <sup>2</sup>                  | 1400 lm                                                               |

- <sup>1</sup>When installed in the fixture, the system's ambient operating temperature is limited by the component with the lowest allowable range.
- <sup>2</sup>Lumen output with emergency battery backup can be calculated by multiplying the battery output power with the efficacy of fixture.

# CONTROLLED

## BLUETOOTH PIR MOTION & DAYLIGHT HARVEST SENSOR

### FEATURES

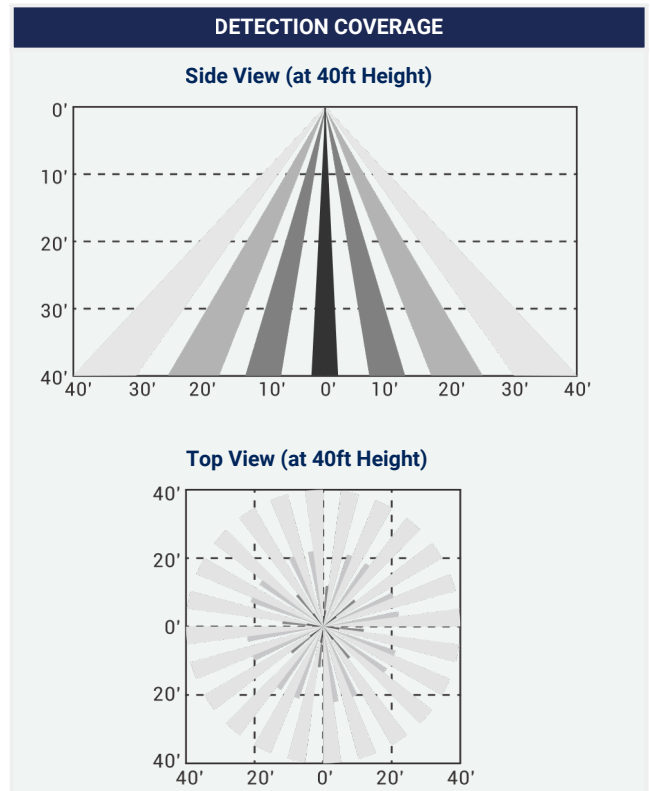
- PIR motion and daylight harvest sensor
- Easy wireless plug-and-play installation
- Bluetooth mesh network
- DLC - Networked Lighting Control (NLC) & Luminaire Level Lighting Control (LLLC)

| SPECIFICATIONS                     |                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Input Voltage                      | 12VDC                                                                                                         |
| Input Current                      | 50mA Max.                                                                                                     |
| Input Power                        | 0.6W                                                                                                          |
| Output Current                     | 10mA Max. Sinking Current                                                                                     |
| Output Power                       | 0.1W                                                                                                          |
| Dimming                            | Class 2, 0-10VDC                                                                                              |
| Bluetooth Transmit                 | 328ft Max.                                                                                                    |
| Radio Frequency                    | 2.4GHz $\pm$ 75MHz                                                                                            |
| Bluetooth Version                  | 5.0                                                                                                           |
| Housing Material                   | Polycarbonate (UL 94-5VA)                                                                                     |
| Housing Finish                     | White                                                                                                         |
| Detection Range                    | 40-80ft                                                                                                       |
| Mounting Height                    | 20-40ft                                                                                                       |
| Indoor/Outdoor Use                 | Both Indoor & Outdoor Use                                                                                     |
| Operating Temperature <sup>1</sup> | -30°C to 55°C (-22°F to 131°F)                                                                                |
| Storage Temperature                | -30°C to 85°C (-22°F to 185°F)                                                                                |
| IP Rating                          | IP66 (Wet Location)                                                                                           |
| Installation                       | The audio jack to 3-PIN adaptor is pre-installed on the sensor for quick twist-lock installation <sup>1</sup> |

<sup>1</sup>When installed in the fixture, the system's ambient operating temperature is limited by the component with the lowest allowable range.

| DEFAULT SETTINGS  |           |
|-------------------|-----------|
| Motion Sensor     | ON        |
| Mode              | Occupancy |
| High End Trim     | 100%      |
| Sensitivity       | High      |
| Hold Time (T1)    | 20 min    |
| Standby Dim       | 50%       |
| Standby Time (T2) | 1 min     |
| Photocell         | Off       |
| Linkage           | Off       |
| Linkage Level     | 100%      |

**Note:** Program the sensor with the desired settings using the Controlled Mobile App (please refer to the Controlled Mobile App manual for instructions).



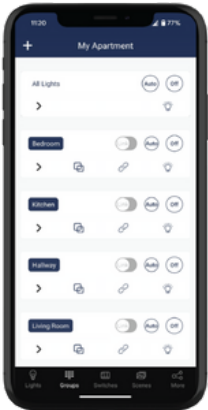
Bluetooth



# CONTROLLED

**RAB**<sup>®</sup>  
DESIGN

ControlLED Network Lighting Controls (NLC) delivers secure, wireless lighting management with Bluetooth Mesh and the ControlLED App. Integrated sensors enable automatic adjustments for comfort, safety, and efficiency.



**Organized Workspaces:**  
Create Zones, Groups and Group Linkages.



**Dimming Lights:**  
Set dim level for groups or individual lights.



**Motion and Daylight Harvest Sensors:**  
Custom sensor settings for groups or individual lights.



**Scenes:**  
Create custom scenes for different scenarios.



**Schedules:**  
Create custom schedules for recurring events.



**Share Access:**  
Share access using QR codes.

## Get the App!



**RAB**<sup>®</sup>  
DESIGN

**Engineered by skilled hands,  
for skilled hands.**

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For more information, visit [rabdesign.ca](http://rabdesign.ca).

## PHOTOMETRIC PLOTS

**LH4S-LED440A320-H-VK-W-WHT-DIM(440W 120V WIDE 4000K)  
MOUNTED AT 30 FEET**

LUMENS 69432.4

MAX CALCULATED VALUE 36.99

