SLHB LED HIGH BAY

DESCRIPTION

The Starco SLHB is a rugged LED luminaire suitable for a variety of applications and a balanced mixture of high performance and value. Applications include manufacturing, warehouses, distribution and convention centers, gymnasiums and other large indoor spaces. SLHB is ideal to replace traditional linear fluorescent and HID fixtures in industrial and commercial buildings with uncompromised quality and reliability. Multiple lumen outputs and electrical and control options make SLHB practical, as well as versatile. SLHB offers a range of lumen packages from 12,000 to 60,000 lumens and delivers up to 185 lumens per watt for maximum rebate eligibility and years of free maintenance.

SPECIFICATION FEATURES

Construction & Materials

- Extruded aluminum heatsinks maximize LED lifetime and optimal performance
- Durable white-painted center driver channel
- Heavy-gauge 5VA flammability classified plastic end caps
- Light weight design allows for a less obtrusive installation
- Includes V-shape hangers for suspended mount; optional bracket for pendent and surface mount

Electrical System

- High efficiency driver
- Input Voltage: 120-277V, 347V/480V, 50/60Hz
- Operating Temperature: -30°C (-22°F) to 55°C (131°F)
- 0-10V Continuous dimming to 10%
- Non Flickering (Flicker rate <3%)
- Power Factor: >0.95
- Total Harmonic Distortion: <15%
- Surge Protection: 8kV
- Fast-Fuse Technology

Optical System

- High impact polycarbonate optics provides even distribution
- Optional frosted lens provides maximum glare reduction

Occupancy Sensor

- Selectable mode high/low/off passive infrared (PIR)
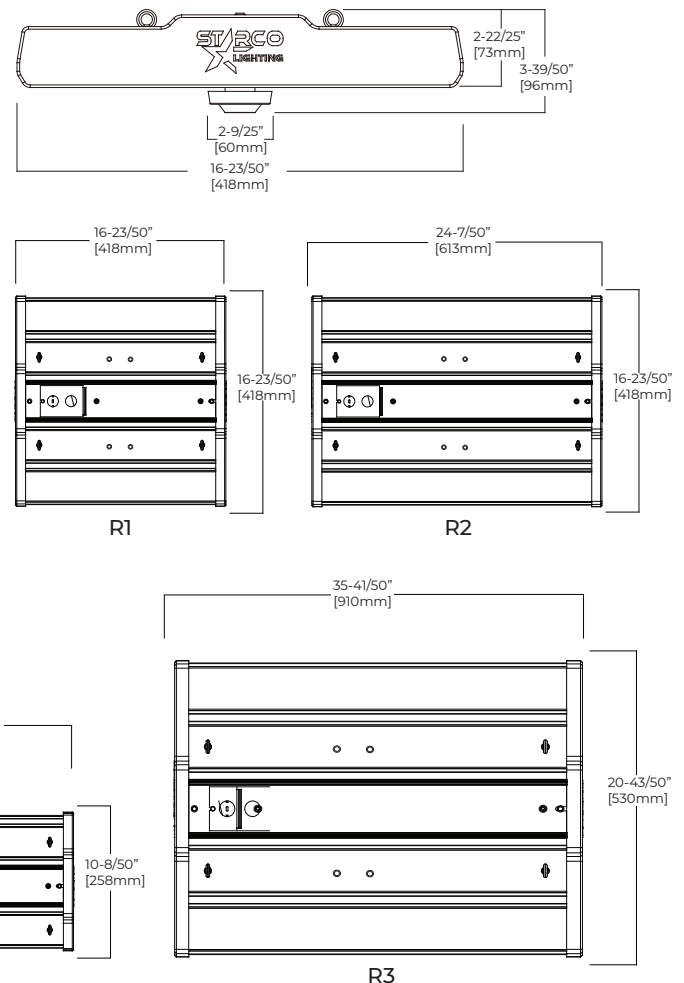- Photocell
- Optional bluetooth remote control

LED

- CRI: 70+, 80+, 90+
- CCT: 3000K, 4000K, 5000K
- Calculated L_{70} Lifetime: >295,000 hours @ 25°C
- Reported L_{90} Lifetime: >86,000 hours @ 25°C

Warranty

- 10 Years

cULus LISTED   DLC PREMIUM   10 YEAR WARRANTY

DIMENSION

2-22/25" [73mm]
3-39/50" [96mm]
2-9/25" [60mm]
16-23/50" [418mm]

16-23/50" [418mm]
16-23/50" [418mm]
R1

24-7/50" [613mm]
16-23/50" [418mm]
R2

16-23/50" [418mm]
10-8/50" [258mm]
R0

35-41/50" [910mm]
20-43/50" [530mm]
R3

Starco Lighting Inc. reserves the right to make changes to this product at any time without prior notice and such modification shall be effective immediately.

Example: SLHB-120-R1-D-50-D-M-H

SLHB								
Series	Wattage	Size	Optics	CCT	Dimming	Sensor	Mount	Options
SLHB=LED High Bay	**50**=50W **65**=65W **70**=70W **100**=100W **120**=120W **135**=135W **150**=150W **165**=165W **180**=180W **200**=200W **220**=220W **350**=350W	**R0**=420x260 **R1**=420x420 **R2**=420x620 **R3**=530x910	**F**=Frosted **D**=Diffused	**30**=3000K **40**=4000K **50**=5000K	**D**=0-10V Dimming **N**=None dimming	**M**=Occ & Daylight Sensor (FSP211) **S**=Bluetooth remote controlled Sensor(FSP311) **B**=Bluetooth Mesh Sensor(IFS101) **E**=Bluetooth Mesh Sensor Emergency Mode *(IFS101E) **O**=No sensor	**H**= Suspended mount **C**=Surface mount **P**=Pendent	**E**= Emergency Coating

Accessories

SLHB5VKCS=3ft hanging chain
ACxx=Aircraft Cable/Hook xx-length in ft.
SLHBMB-x=Mounting Bracket x-diameter of hole in.
WPxx=16AWG Whip xx-length in ft.
Lx-15P=Twist Lock Plug, x=5or7 for 120 or 277

x-15P=Straight Plug, x=5or7 for 120 or 277
AT480=480V Autotransformer
EMDxx=Emergency Battery Pack xx-20 or 30 Watts
EMR=UL 924 emergency wired relay
MCable=Modular Plug&Go Cabling (further specification needed)

FSIR-100= FSPxxx Sensor remote controller
PPA109S=Wireless emergency controller (IFS101)
SPD-xx=Surge Protection Device xx-10 or 20kV

*IFS101E must be used with PPA109S. Can work with IFS101 sensors to override controls in emergency mode.
*SLHBMB-x is the specialized version of the standard mounting bracket that is specified with the p designation in the mount section of the model number.
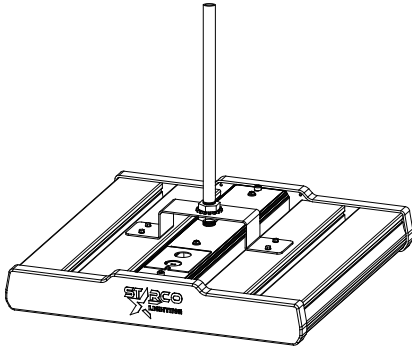
PERFORMANCE DATA

Wattage	Size	70 CRI @4000K / 5000K		Lens
		Lumens	Efficacy	
50	R0	9250	185	Diffused
50	R0	8800	176	Frosted
65	R0	12050	185	Diffused
65	R0	11440	176	Frosted
70	R1	12900	185	Diffused
70	R1	12320	176	Frosted
100	R1	18000	180	Diffused
100	R1	17100	171	Frosted
120	R1	21000	175	Diffused
120	R1	19950	166	Frosted
135	R1	23625	175	Diffused
135	R1	22444	166	Frosted
150	R2	25500	175	Diffused
150	R2	24225	166	Frosted
165	R2	28875	175	Diffused
165	R2	27390	166	Frosted
180	R2	31500	175	Diffused
180	R2	30000	166	Frosted
200	R2	35000	175	Diffused
200	R2	33200	166	Frosted
220	R2	38500	175	Diffused
220	R2	36520	166	Frosted
350	R3	61250	175	Diffused
350	R3	58100	166	Frosted

CRI	CCT	OUTPUT
70	5000K	100%
	4000K	100%
80	5000K	94%
	4000K	93%
	3000K	85%
90	5000K	86%
	4000K	85%
	3000K	78%

Lens	Output
Clear	104%
Acrylic	105%

Emergency Battery Pack	Output Lumens
20W - 90min	3600
30W - 90min	4800

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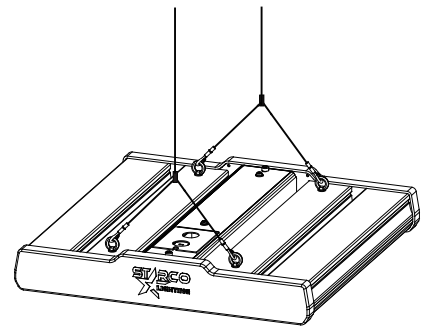
2/4

Pendent Mount
Standard (3/4")

Suspended Mount
Hanging chain+V-clip
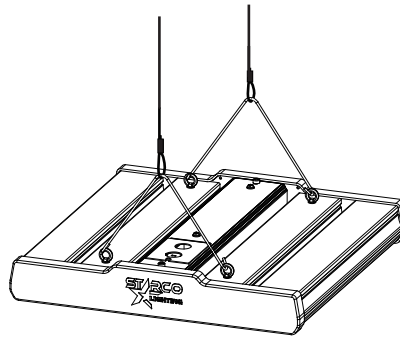
Aircraft Cable with hook

Sensor

THE SLHB LED High Bay integrated with the Legrand Wattstopper® photo/motion sensor provides more energy savings without sacrificing performance. Unlike traditional lighting control systems, the SLHB delivers suporior lighting with integrated occupancy and daylight controls.

There are three basic sensor options - FSP-211, FSP-212 and FSP-311. The sensors operate from -40°C (-40°F) to 70°C (158°F) and have an IP66 rating and 5 year warranty. Please refer to Legrand Wattstopper® spec sheet for more information.

FSP-211   FSP-311

Top View   Side View

60ft

FSP-L2 Lens

2.33"

0.78"

40ft

FSP-L3 Lens

2.33"

0.78"
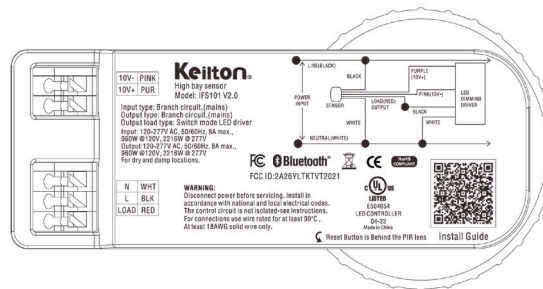
100ft

FSP-L7 Lens

3.2"

1.04"
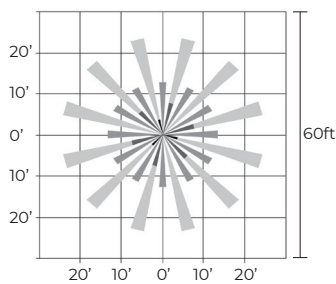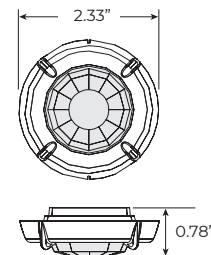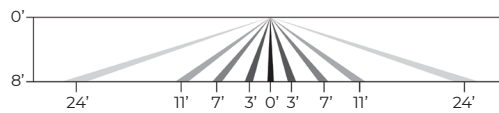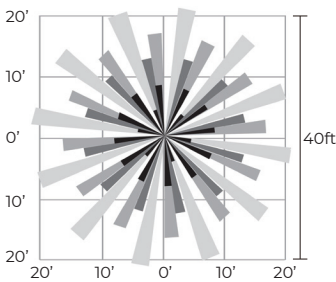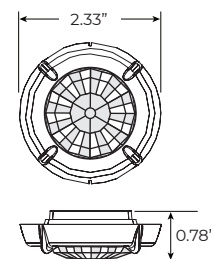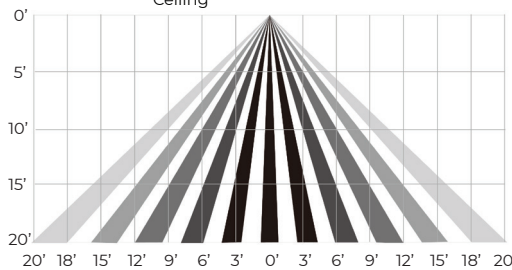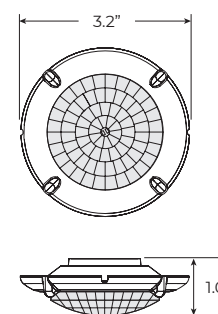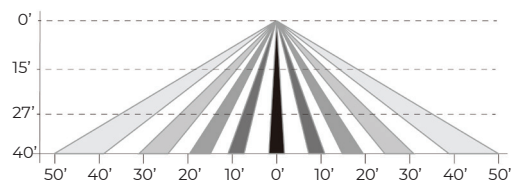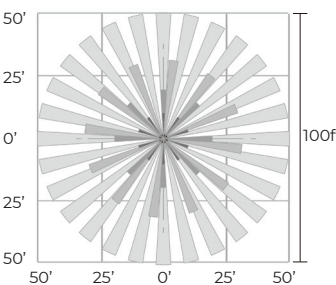
Starco Lighting also offers a wireless emergency solution using Keilton emergency load controller and wireless sensor. The PPA109S connects to normal power and emergency power. It sends a bluetooth signal to the emergency load controllers and emergency fixture sensors (IFS101, IFS101E) when normal power is lost.
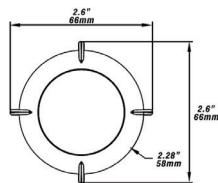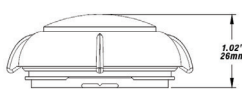
1. Provision for remote test button or fire alarm interface
2. Dual color function LED indicator
3. Suitable for use in return air plenum Rated UL2043
4. Comply TO UL 1376, UL924, RoHS
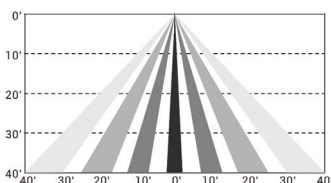5. Only 1 piece is requested per Zone
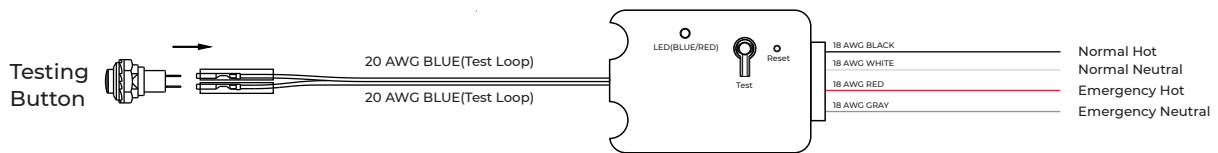
The IFS101 Sensor/Load Controller can be set to emergency mode (IFS101E) by default raising the light levels to 100%. It only allows sensor control and dimming when an active signal from the PPA109s is signaling that normal power restored . Standard operation of the IFS101 requires a wireless signal from the PPA109S that normal power is lost to go into emergency mode, bypass dimming and control functions.
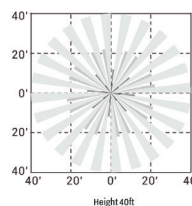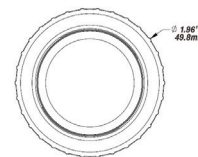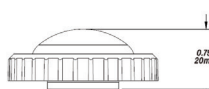
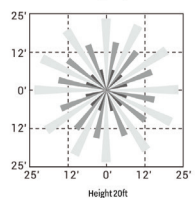with **MIDDLE BAY LENS**

with **HIGH BAY LENS**

HBL1

MBL1

Coverage Side View

Coverage Top View

Coverage Side View

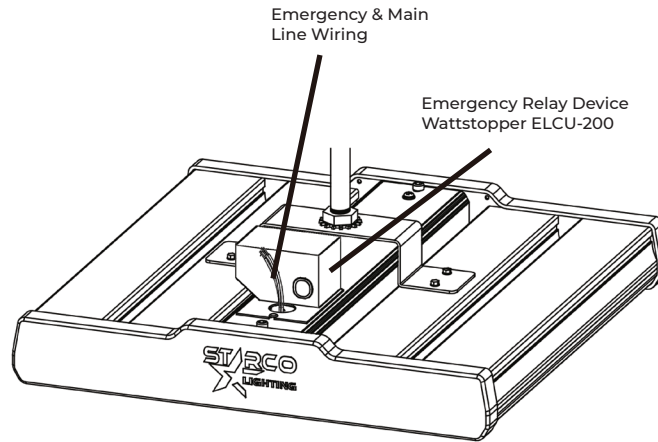Coverage Top View

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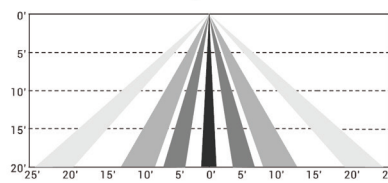
Emergency Relay Device

Wattstopper ECLU-200

Emergency & Main
Line Wiring

Emergency Relay Device
Wattstopper ELCU-200

Autotransformer

Transformer

**Transformer - 480VAC Autotransformer
AT480 Module**

AC480V,60Hz