

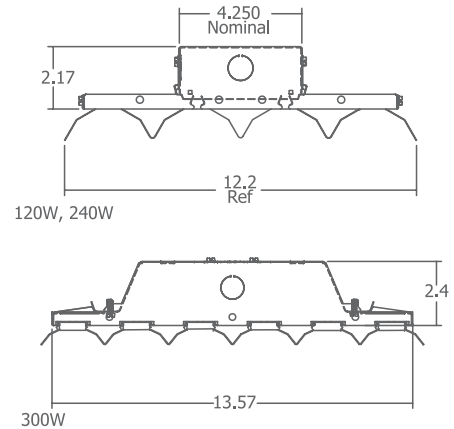
DHLE-LED

Economy LED Highbay



Job Information

Type:	
Catalog #:	
Project:	
Comments:	
Prepared by:	



Length: 48"



Description

DECO Lighting's DHLE-LED offers a high performance LED luminaire that is ideal in manufacturing, warehousing, commercial and gymnasium applications. Its bi-level capable wiring option offers a cost effective way to reduce your energy costs by using motion sensors or simple switching techniques while its dimming driver option allows for full output control. LM-80-tested LED populated custom strips provide ideal light distribution for mounting heights from 15- to 40-ft. The 120-,240- and 300-watt performance and value-optimized fixtures replace up 400-watt metal halide high bay fixtures. The fixture is constructed of sheet steel for heat sink and thermal control and a specular reflector for high performance. A top side access door provides easy serviceability by enabling unobstructed driver access.

Ordering Information

Example: (DHLE-LED-120-40-W-UNV-MS)



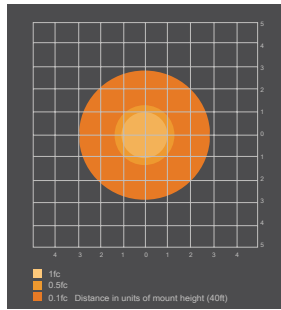
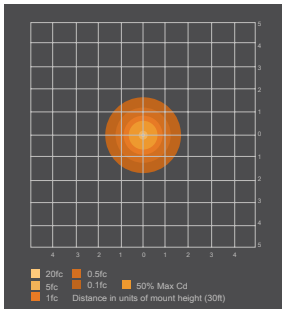
Series	Wattage/Lumen	Color Temp.	Reflector	Voltage	Option
Economy LED Highbay	120 120W/14334 ^{1,2}	30 3000K	M Miro 4™ Reflector	UNV 120-277V	CSC Control Scope Connected
	150 150W/18771 ^{1,2}	35 3500K	W High Reflectance White	120 120V	OM Occupancy Sensor (HBP-111)
	200 200W/22976 ^{1,2}	40 4000K		277 277V	MS Motion Sensor w/Dimming (FSP-211)
	240 240W/27494 ^{1,2}	50 5000K ⁵			EM Emergency
	300 300W/32103				DM Dimmable
					WG Wire Guard

¹ Delivered Lumens (5000K)
² DLC Listed Wattages (Please see matrix on Page 2)

Features

- High efficacy LED boards with dual copper cladding for thermal dissipation.
- Optional occupancy sensor, lensed door and wire guard available.
- Housing has top side access door for easy field access of driver and control gear.
- 100,000 hour rated life
- Operating temp: -30°F to 120°F
- DLC Listed (Please see matrix below)
- Occupancy Sensor (Information on page 3)
- Motion Sensor (Information on page 4)

Photometric Data



DLC Listing

	120W	150W	200W	240W
3000K				
3500K	X	X	X	X
4000K	X	X	X	X
5000K	X	X	X	X

Lumen Chart

Lumen Chart				
Wattage	5000K	4000K	3500K	3000K
120	14334	13617	13277	12945
150	18771	17832	17387	16952
200	22976	21827	21282	20749
240	27494	26119	25466	24830
300	32103	30498	29735	28992

*Lumen outputs are based on the 5000K performance data and then scaled down to the other temperatures.

Performance Data

CRI:	70+			
CCT:	3000K, 3500K, 4000K, 5000K			
Warranty:	10 yr. Limited Warranty			
Dimming:	Available with 0-10V inputs dimming down to 10%			
Operating Temperature:	-34°C to +49°C (-30°F to +120°F)			
L70 Rating:	100,000+ Hours			
IP Rating:	IP50			
Driver Current:	700mA			
Sound Rating:	Class A (inaudible in a 24dB ambient environment)			
BUG Rating:	120W	B4	U0	G1
	240W	B4	U3	G5

Occupancy Sensor

The HBP-111 occupancy sensor is designed for automatic lighting control in high or low bay applications. It contains a passive infrared (PIR) sensor and a lens engineered to provide reliable coverage from a wide range of mounting heights.

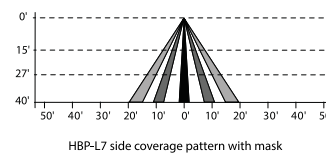
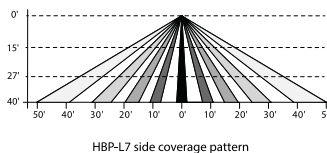
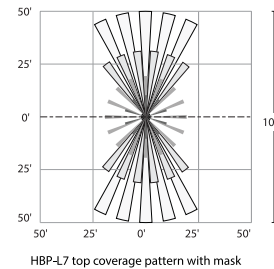
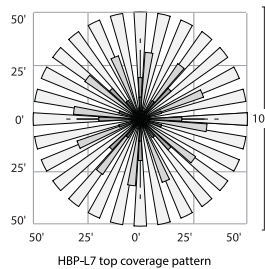
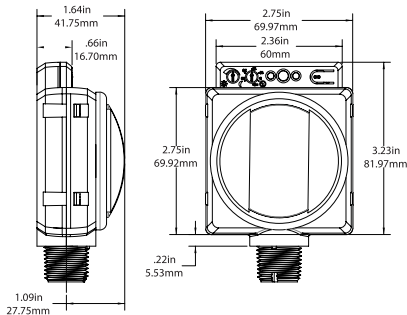
Sensitivity and time delay adjustments are set using trim pots conveniently located on the sensor module. The HBP-111 can also be adjusted remotely using a handheld configuration tool (FSIR-100).

The HBP-111 includes a hold-off daylighting light level feature to prevent lighting from turning on when occupancy is detected when there is sufficient ambient light available.

The HBP-111 includes extra features that can be enabled or disabled via the FSIR-100. Features include burn-in mode, walkthrough mode, visual alert and occupancy mode.



- Indoor use only
- Operating Temperature: 32°F to 158°F (0°C to 70°C)
- Operating Humidity: 5% to 95%, non-condensing
- Line voltage for direct connection to load 120, 277, 347V, 60Hz or 230V, single phase 50Hz operation
- Power consumption: 0.2W
- Adjustable hold-off daylighting level
- Flexible mounting option
- Snap-in mounting hardware
- UL and cUL listed
- Easy mounting using knockout at end of fluorescent high bay luminaire
- Weight 6.4oz (181g)
- Adjustable time delay and sensitivity



Step Dimming & Bi-Level

FSP-211

The FSP-211 mounts in an outdoor lighting fixture and provides multi-level control based on motion. The sensor also includes a photocell to measure the ambient light level. It controls 0-10 VDC LED drivers or dimming ballasts, as well as non-dimming ballasts and, with an SFP-LX Lens, is rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles.

Key Factors

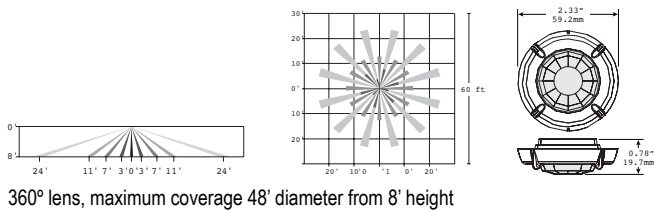
- Fully adjustable high and low dimmed light levels.
- Designed for LED fixtures; rated for extreme temperatures and up to 200,000 on/off cycles
- Hold off setpoint with automatic calibration option for convenience and added energy savings
- Adjustable via handheld wireless configuration tool
- IP66 rated with choice of lenses for wet and outdoor locations, and mounting heights from 8' to 40'
- Adjustable time delay and cut off delay



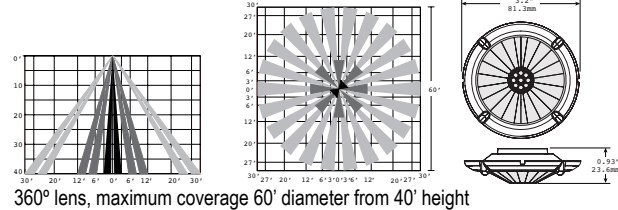
Coverage & Dimensions

The FS-Lx lenses work with FSP-211 motion sensors to provide multi-level lighting control based on motion and the ambient light level. Four lens choices provide flexibility for varying mounting heights.

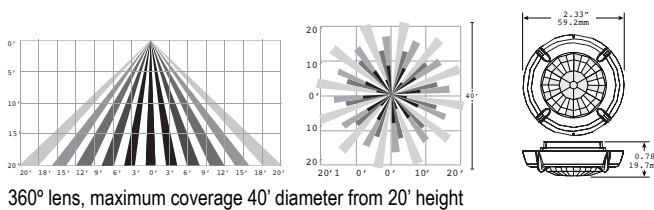
FSP-L2



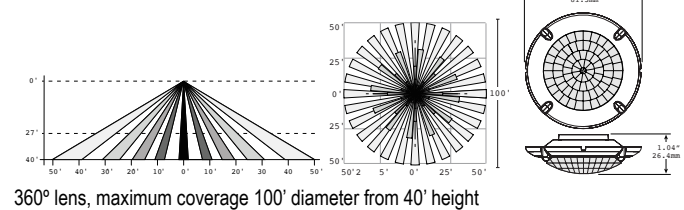
FSP-L4



FSP-L3

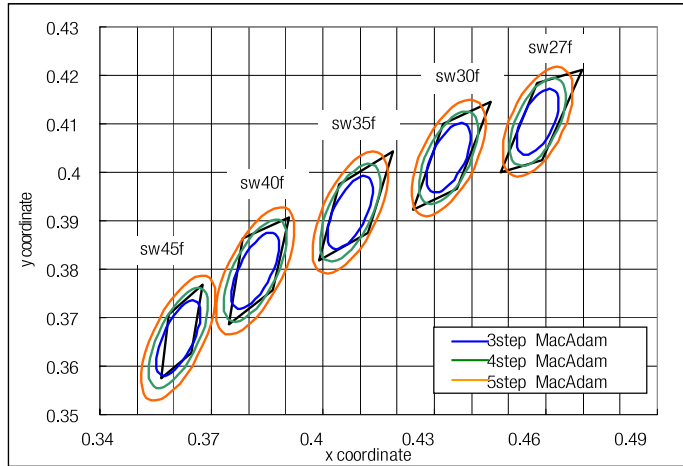


FSP-L7



MacAdam Ellipse

A MacAdam ellipse is a region on a chromaticity diagram which contains all colors which are indistinguishable, to the average human eye, from the color at the center of the ellipse. This measure helps to establish the variability in color a light source can exhibit before a general observer will notice the shift in color. Each standard deviation out from the target center is referred to as a MacAdam step, with ANSI recommending that lamp manufacturers stay within a “4-step” ellipse. This 4-step MacAdam minimum requirement means that lamp manufacturers are given a great deal of allowance regarding the perceptible differences in color properties of their fixtures versus what they advertise.



Deco Lighting uses only the finest LEDs made by Nichia, the world’s largest LED manufacturer. The Nichia LED is considered the Rolls Royce of LEDs. Featuring a 3-step MacAdam ellipse, the tightest binning in the industry, Nichia LEDs are held to a higher standard than minimum industry requirement and don’t color-shift like fixtures utilizing lower quality LEDs.

sw27f	
x	y
0.4478	0.3999
0.4576	0.4183
0.4698	0.4212
0.4591	0.4025

sw30f	
x	y
0.4244	0.3923
0.4325	0.4101
0.4452	0.4146
0.4362	0.3965

sw35f	
x	y
0.3989	0.3819
0.4045	0.3975
0.4452	0.4044
0.4362	0.3875

sw40f	
x	y
0.3746	0.3687
0.3783	0.3836
0.3909	0.3906
0.3864	0.3757

sw45f	
x	y
0.3565	0.3576
0.3585	0.3706
0.3675	0.3769
0.3646	0.3627