

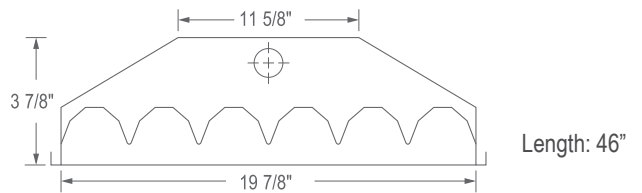
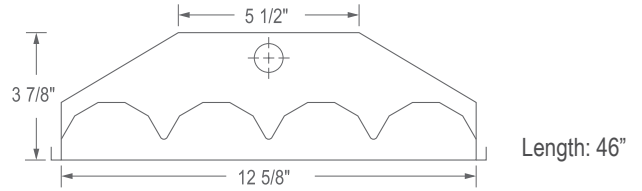
DHL-LED

LED Highbay



Job Information

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



Description

DECO Lighting's DHL-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 100-watt to 300-watt performance and value-optimized fixtures replace up 1000-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: (DHL-LED-120-40-UNV-WG-MS)



Series	Wattage/Lumen	Color Temp.	Voltage	Shielding	Option					
LED Highbay	120	120W/14334 ^{1,2}	30	3000K	UNV	120-277V	Blank	No Shielding	CSC	Control Scope Connected
	150	150W/18771 ^{1,2}	35	3500K	120	120V	A12	#12 pattern acrylic	OM	Occupancy Sensor (HBP-111)
	200	200W/22976 ^{1,2}	40	4000K	277	277V	ACL	Clear acrylic, .125"	MS	Motion Sensor w/Dimming (FSP-211)
	240	240W/27494 ^{1,2}	50	5000K ⁵	480	480V	PCL125	Clear polycarbonate, .125"	EM	Emergency
	300	300W/32103 ^{1,2}			WG	Wireguard	DM	Dimming	MP	Modular Power

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.
- Operating temp: -35°C to 50°C
- DLC Listed (Please see matrix below)
- Optional Occupancy Sensor (Information on page 3)
- Optional Motion Sensor (Information on page 4)

Performance Data

CRI:	80+
CCT:	3000K, 3500K, 4000K, 5000K
Warranty:	10 yr. Limited Warranty
Dimming:	Available with 0-10V inputs dimming down to 10%
Operating Temperature:	-35° to 50°C Max Ambient
L70 Rating:	100,000+ Hours
IP Rating:	IP50
Sound Rating:	Class A (inaudible in a 24dB ambient environment)
Driver Current:	700mA

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

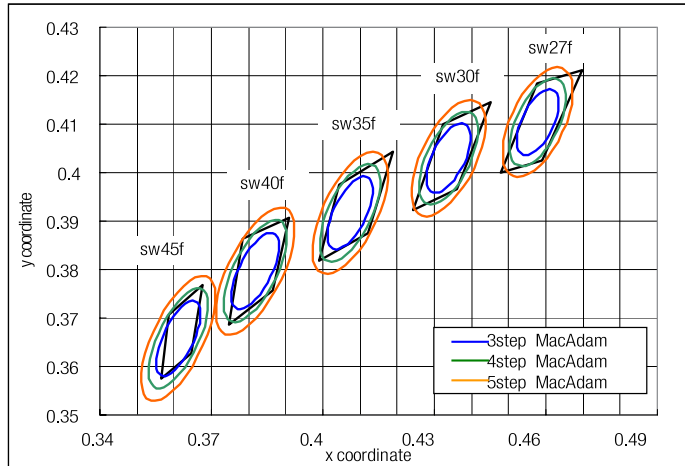
*Lumen outputs are based on the 5000K performance data and then scaled down to the other temperatures.

DLC Listed

	120W	150W	200W	240W	300W
3000K	X	X	X	X	X
3500K					
4000K	X	X	X	X	X
5000K	X	X	X	X	X

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