



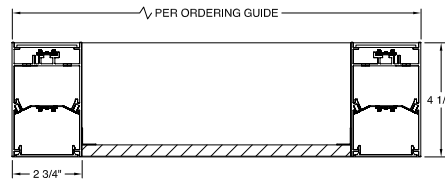
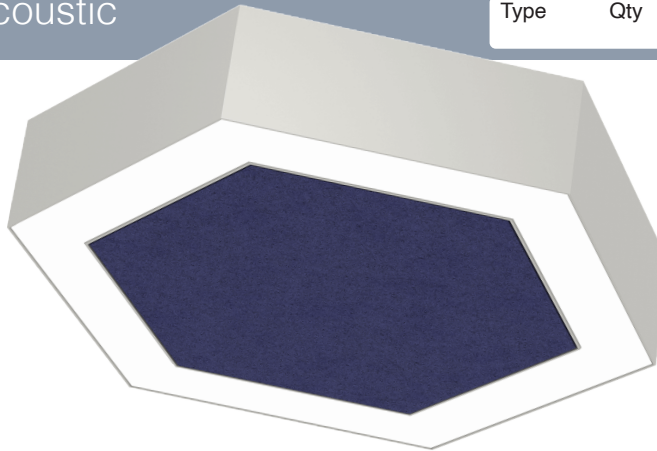
# Hex Series | HXL-24-DI Acoustic

Date	Notes
Project	
Type	Qty

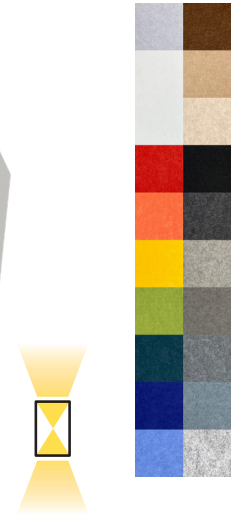
## Features

- Combines noise control and general illumination.
- Durable extruded aluminum, fully welded housing.
- LED optimized optics for smooth, efficient illumination.
- Individual fixtures, continuous runs or custom patterns.
- Programmable driver for custom lumen packages.
- 0-10V dimming to 1% standard. Dim-to-off available.
- DMX, Lutron and DALI protocols also available.
- Sensor Ready for wireless Smart Lighting Solutions.
- 80/90CRI, Tunable White, RGBW & RGBWW.
- Advanced Color (RGBW) w/pixel control to 5".
- Bios SkyBlue™ circadian solutions available.

Declare Red List Approved.



Acoustic Options and details page 3.



## Ordering Guide



MODEL	OPTICS	LED <sup>1</sup>	LUMENS <sup>2</sup>	SIZE	MOUNTING <sup>3</sup>	FINISH	OPTIONS
<b>HXL-24-DI</b>							
HXL-24-DI	<b>STANDARD</b> FL/CA = Flush Opal Acrylic, (snap-in) Direct, Clear Acrylic (lay-in) dust covers Indirect  <b>OPTIONAL</b> FL/SI = Flush Opal Acrylic (snap-in) Direct, Satin Ice Acrylic (lay-in) Indirect	<b>STATIC WHITE</b> 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K  <b>BIOS SkyBlue</b> Spectrally optimized circadian solutions.  <b>TUNABLE WHITE</b> (2700K-6500K) 2DIM10 = for 0-10V 2DMX = for DMX 2ESN = for Philips 2CAS = for Casambi 2LUT = for Lutron  <b>DIM-TO-WARM</b> (2700K-6500K) DTW = Dim-to-Warm  <b>RGB + WHITE</b> RGB = RGB RGBW = RGBW RGBWW = RGBWW  <b>ADVANCED COLOR</b> 125mm incremental pixel color control for chase and animated effects.	<b>22"</b> LO = 5269L (45W, 117LPW) SO = 7028L (60W, 117LPW) HO = 8778L (75W, 117LPW) All value  <b>32"</b> LO = 9056L (76W, 120LPW) SO = 12,072 (101W, 120LPW) HO = 15,086L (126W, 120LPW)  <b>42"</b> LO = 12,921L (106W, 122LPW) SO = 17,222L (141W, 122LPW) HO = 21,524L (176W, 122LPW)  <b>CUSTOM</b> Specify value < HO.	22 = 22" 32 = 32" 42 = 42" See page 3.	AC = Aircraft Cable PD = Pendant Stem	W = White CC = Custom Color AMW = Anti Microbial White	<b>DIMMING DRIVERS</b> DIM10 = 0-10V (1%) Standard DTO = 0-10V (Dim-to-Off) DIMST = 0-10V Step Dimming DIMSR = DALI Sensor Ready (5.0%) DALI = DALI (5.0%) DMX = DMX  <b>LUTRON™ DIMMING DRIVERS</b> LDE1 = Hi-Lume 1% EcoSystem LD2 = Digital 1% (DALI-2) L3DA3W = Hi-Lume 1% 3-Wire  <b>SENSORS &amp; CONTROLS<sup>4</sup></b> AVO = Avi-On Sensor AWNS = Lutron Athena Sensor ESN = EasySense Sensor CAS = Casambi Wireless Control  <b>EMERGENCY<sup>5</sup></b> EMC = Emergency Circuit GTD = Generator Transfer Device EPC4 = 4W Emergency Battery EPC6 = 6.5W Emergency Battery EPC10 = 10W Emergency Battery EPC12 = 12W Emergency Battery  <b>WIRING</b> TCW = Two Circuit Wiring FWH = Flexible Wiring Harness

<sup>1</sup>All LED, BIOS, Tunable White, DTW, and RGB/W options and Ordering Codes page 2.

<sup>2</sup>Lumens at 80CRI, 3500K, FL lens. Photometry page 5.

<sup>3</sup>See page 5 for mounting option details.

<sup>4</sup>All Sensor & Control options page 2.

<sup>5</sup>EPC6 is standard unless otherwise specified. EPC not for DMX drivers.

BAA letter of compliance available at [www.dayolite.com](http://www.dayolite.com).

## LED, BIOS, Sensor &amp; Control Ordering Codes

## LED

## Static White

30 = 3000K 80 CRI  
 35 = 3500K 80 CRI  
 40 = 4000K 80 CRI  
 50 = 5000K 80 CRI

927 = 2700K 90 CRI  
 930 = 3000K 90 CRI  
 935 = 3500K 90 CRI  
 940 = 4000K 90 CRI

Tunable White<sup>1</sup>  
(2700K-6500K)

2DIM10 = 0-10V 80 CRI  
 2DMX = DMX 80 CRI  
 2CAS = Casambi Wireless 80 CRI  
 2ESN = Philips EasySense 80 CRI  
 2LUT = Lutron (LD2) 80 CRI

92DIM10 = 0-10V 90 CRI  
 92DMX = DMX 90 CRI  
 92CAS = Casambi Wireless 90 CRI  
 92ESN = Philips EasySense 90 CRI  
 92LUT = Lutron (LD2) 90 CRI

Dim-to-Warm<sup>2</sup>

DTW = 6500K-2700K 80 CRI  
 9DTW = 6500K-2700K 90 CRI

RGB/W<sup>3</sup>

RGB = RGB only  
 RGB27 = RGB w/2700K  
 RGB30 = RGB w/3000K  
 RGB35 = RGB W/3500K  
 RGB40 = RGB w/4000K  
 RGB50 = RGB w/5000K  
 RGBWW = RGB w/2700K-6500K

Single Color<sup>4</sup>

RED = Red  
 BLU = Blue  
 GRN = Green  
 AMB = Amber

Advanced Color<sup>5</sup>

Advanced Color options combine RGB or RGBW with multi-pixel control for advanced chases, animated visual effects and other programmable scenes with 125mm pixel granularity.

ACRGB = RGB only  
 AC27 = RGB w/2700K  
 AC30 = RGB w/3000K  
 AC40 = RGB w/4000K

## BIOS SkyBlue

BIOS SkyBlue biological technology brings the benefits of blue skies inside. BIOS SkyBlue is the only spectrally optimized circadian solution to target the region that drives wellness benefits including: increased alertness, enhanced productivity, better mood, and better sleep. More information may be found at [www.bioslighting.com](http://www.bioslighting.com) or by contacting Day-O-Lite directly. All options for 0-10V control.

## BIOS Biological Static

For daytime applications. BIOS Static Biological LED features key BIOS SkyBlue (490nm) for maximum daytime circadian impact.

B30 = 3000K  
 B35 = 3500K  
 B40 = 4000K

## BIOS Biological Dynamic White

Designed to transition from daytime to evening in a dim-to-warm protocol. The daytime CCT includes full BIOS SkyBlue (490nm) for maximum daytime circadian impact, while the evening spectrum removes BIOS SkyBlue for minimal circadian stimulus after hours.

B30D = 3000K-2700K  
 B35D = 3500K-3000K  
 B40D = 4000K-3500K

## BIOS Biological Tunable White

Designed to transition from daytime to evening in a tunable white protocol. The daytime CCT includes full BIOS SkyBlue (490nm) for maximum daytime circadian impact, while the evening spectrum removes BIOS SkyBlue for minimal circadian stimulus after hours.

B30T = 3000K-2700K  
 B35T = 3500K-2700K  
 B40T = 4000K-2700K

## Sensors &amp; Controls

## Sensors

AVO = Avi-On Occ/Day  
 AVM = Avi-On Occ (Microwave)  
 BNV = BubblyNet Occ/Day  
 ENC = Encelium Occ/Day  
 ENL = EnLighted Occ/Day/Temp  
 LEG = Legrand Occ/Day  
 ANW = Lutron Athena Occ/Day  
 VIVE = Lutron Vive Occ/Day  
 NLT = Acuity nLight Occ/Day  
 NXC = Current NX Occ/Day  
 ESN = Philips EasySense Occ/Day  
 WWL = Cooper WaveLinx Occ/Day

## Wireless Control

CAS = Casambi

Sensors and control options to be commissioned wirelessly in the field by qualified controls personnel with applicable apps (by others).

## Other Options

Other sensor and wireless control options are available. Contact factory for details.

<sup>1</sup>Tunable white may be controlled by a number of dimming protocols as shown.

<sup>2</sup>Dim-to-Warm mimics incandescent dimming by warming the CCT from 6500K to 2700K as light levels are dimmed.

<sup>3</sup>All RGB, RGBW and RGBWW options for DMX control (by others). 80 CRI standard.

<sup>4</sup>Single colors are constant voltage LEDs. Dimming requires ELV controller (by others).

<sup>5</sup>White limited to 100L/ft.

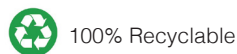


**HOW TO SPECIFY**

- 1) Select color code from color swatches.
- 2) Enter color code in Options section of Ordering Guide on page 1.

**SPECIFICATIONS**

- Class A Fire Rating
- 1.6 Noise Reduction Coefficient (NRC)
- Moisture and Mold Resistant
- UV Fade Resistant

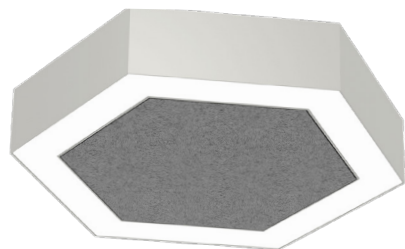


**ADDITIONAL INFORMATION**

Smoke, Pewter and Slate are standard colors; consult factory for lead-times on other colors including wood grains. Acoustic panels ship affixed to luminaires and are held in place by stop-blocks and double-sided tape to prevent bowing. On site removal may result in damage and void warranty. Fixtures must be stored and installed in an interior dry location at a minimum of 52F.

**A NOTE ON SOUND ABSORPTION**

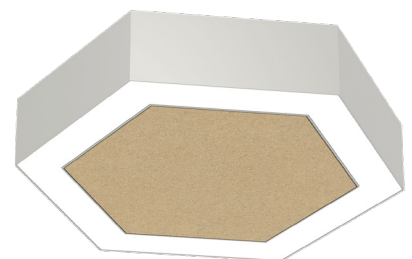
Per ASTM C423 there is no standard way to calculate sound absorption coefficients of non-standard shapes, sizes or spacing of material. Day-O-Lite's acoustic fixtures are tested using ASTM E795-16 Standard "Practices for Mounting Test Specimens During Sound Absorption Test", resulting in a noise reduction coefficient (NRC) unique to the test setup. When comparing sound suppressing materials those with a higher NRC will absorb more sound than those with a lower NRC, assuming the same test method is employed.



PW = Pewter



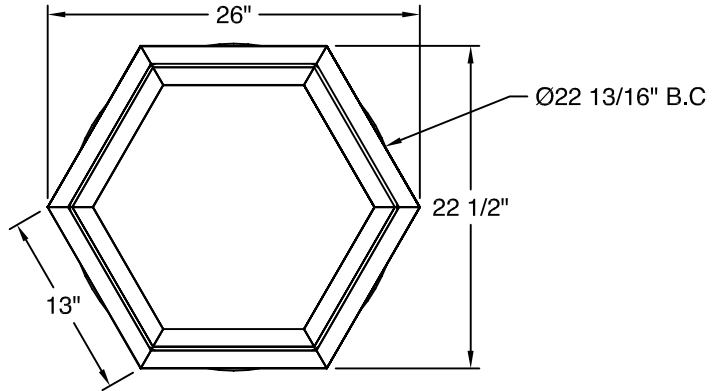
CO = Cobalt



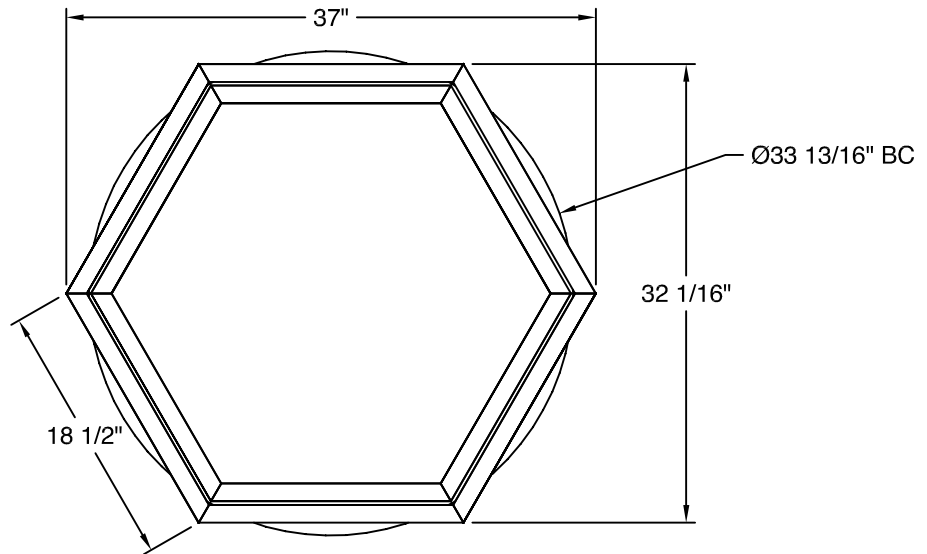
EC = Ecrú

Dimensions

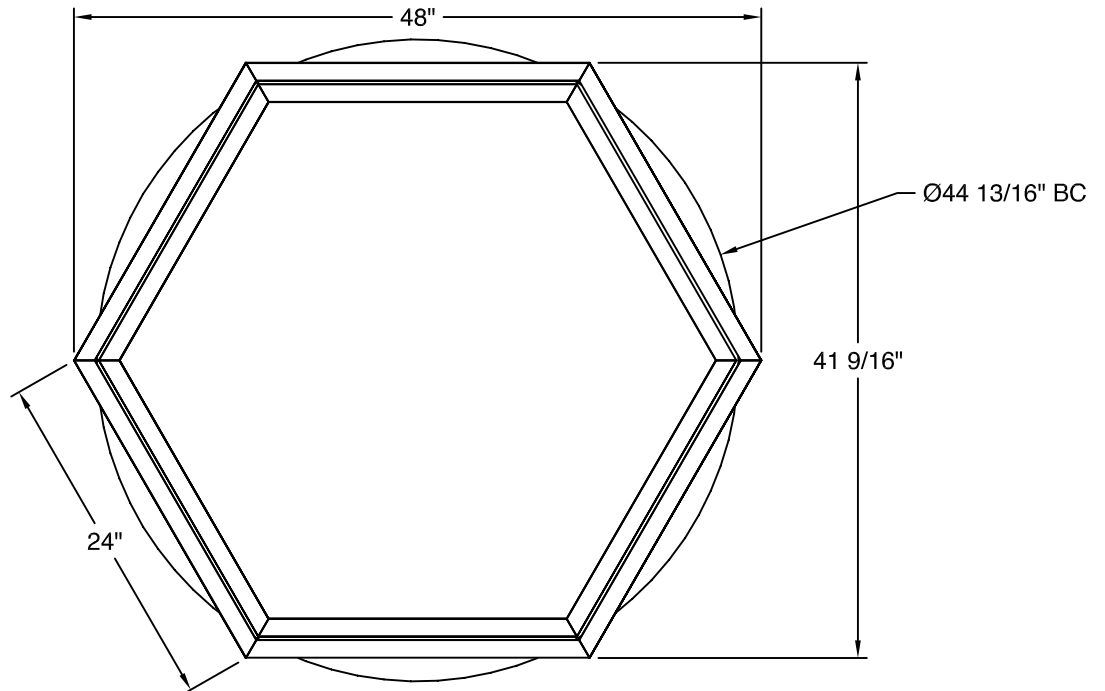
HXL-24-DI 22"



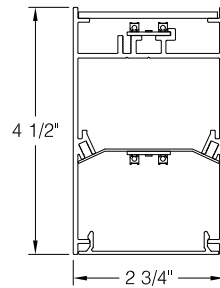
HXL-24-DI 32"



HXL-24-DI 42"



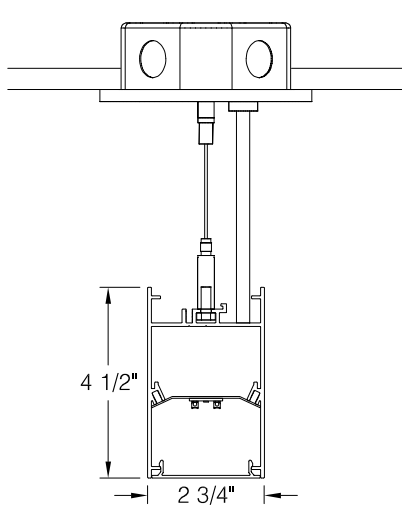
Optics



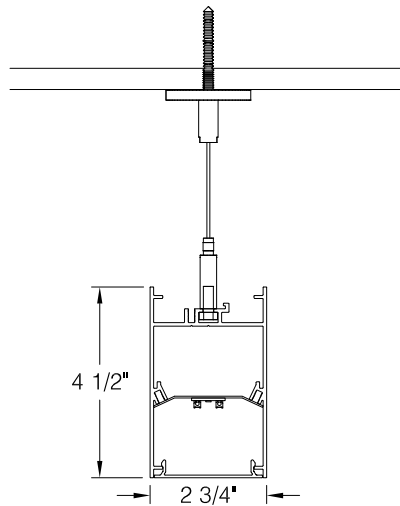
**FL/CA**  
Flush Lens

Mounting

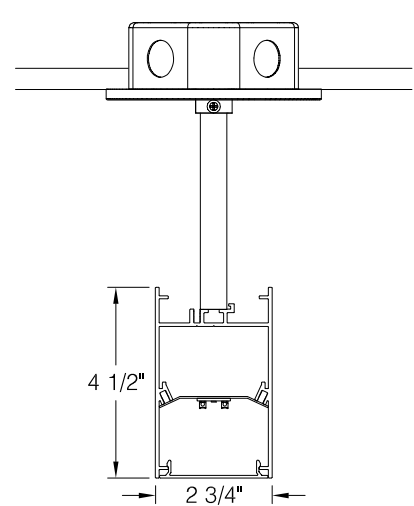
Standard suspension options include adjustable self-locking aircraft cables (AC) and rigid pendant stems (PD). AC assembly is 48" x 1/16" with a 5" feed canopy and 2" suspension canopies. 60" 18 gauge power and 22 gauge dimming control SJT feed. PD assemblies are 5/8" dia. (or 3/8" IP) hollow stem for power feed by others, 24" is standard. Consult factory for longer suspension lengths and other mounting options.



**AC**  
Feed Canopy 5"



**AC**  
Non-Feed Canopy 2"



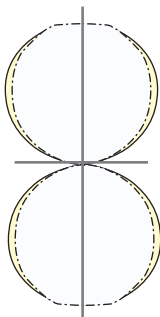
**PD**  
5" Canopies

**AC-PF** = Replacement Power Feed w/cable Kit w/5" canopy.

**AC-NF** = Replacement Non/Feed Kit w/2" canopy.

Consult factory for lengths and either 5 or 6 wire power feeds.

Photometry



SIZE	LO LUMENS	LO WATTS	LO LPW	SO LUMENS	SO WATTS	SO LPW	HO LUMENS	HO WATTS	HO LPW
22"	5269	45	117	7028	60	117	8778	75	117
32"	9056	76	120	12,076	101	120	15,086	126	120
42"	12,921	106	122	17,222	141	122	21,524	176	122

3500K @ 80CRI, 43% Direct, 57% Indirect Distribution, FL/CA lens. Use the following multipliers for other CCTs: 2700K x 0.96, 3000K x 0.98, 4000K x 1.02, 5000K x 1.03. IES files available @ [www.dayolite.com](http://www.dayolite.com)

## Specifications

**CONSTRUCTION:** Extruded aluminum housing w/aluminum end caps. Steel internal components.

**REFLECTOR:** Die-formed steel finished in highly reflective baked white enamel with pre-finished reflective LED tray.

**OPTICS:** LED optimized snap-in opal acrylic Flush lens direct.

**LED:** Static white LED modules in 27/30/35/40 & 50K CCT, 80/90CRI. Lumen maintenance minimum  $L_{70}$  = 50,000 hours. 3 SDCM color consistency. BIOS SkyBlue, RGB, RGBW, Tunable White and Advanced Color options available. Field replaceable.

**DRIVER:** Standard driver is Class 2 AOC 0-10V to 1%, 120/277V input, PF > 90%, THD < 20 @ 120V. Additional dimming protocols available. Drivers prewired from factory for connection to control system (by others); field replaceable.

**MOUNTING:** Standard options include adjustable self-locking aircraft cables (AC), and rigid pendant stems (PD). AC assembly is 48" x 1/16" with a 5" feed canopy and 2" suspension canopies. 18 gauge power and 22 gauge dimming control SJT feed. PD assemblies are 5/8" dia. (or 3/8" IP) hollow stem for power feed by others, 24" is standard.

**FINISH:** Housing and components finished in baked white enamel. Canopies and pendant stems are white enamel unless otherwise specified.

**CERTIFICATION:** cETLus listed conforming to UL STD. 1598 and certified to CSA STD C22.2 NO. 250.0. Suitable for dry & damp locations. Union Made in the United States of America, I.B.E.W, BAA compliant, Declare Red List Approved.

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