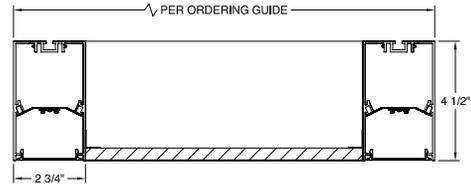




Quad Series | QDL-24-D Acoustic

Date	Notes
Project	
Type Qty	



Features

Combines noise control and illumination in a simple solution.

Promotes an inviting space for personal wellbeing, focus and concentration.

Boosts human performance by reducing distracting noise levels and reverberations.

Improves privacy when speaking by reducing echoes and reflected sound.

A **Declare** Red List Approved Product.



Acoustic Options and details page 4.

Ordering Guide

MODEL	OPTICS	CCT ¹	LUMENS	SIZE ⁴	MOUNTING ⁵	FINISH	OPTIONS
QDL-24-D	FL						
QDL-24-D Direct Acoustic	FL = Flush Opal Acrylic, snap-in Standard	STATIC WHITE¹ 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K BIOS SkyBlue² Spectrally optimized circadian solutions. TUNABLE WHITE³ (2700K-6500K) 2DIM10 = for 0-10V 2DMX = for DMX 2PSQ = for Lutron 2ESN = for Philips 2CAS = for Casambi RGB + WHITE³ RGB = RGB RGBW = RGBW ADVANCED COLOR³ 125mm incremental pixel color control for chases and animated effects.	LO = Low Output SO = Standard Output HO = High Output See page 6 for Lumens, Watts & LPW for all sizes.	14 = 14" 20 = 20" 25 = 25" 31 = 31" 36 = 36" 42 = 42" 47 = 47"	AC = Aircraft Cable PD = Pendant Stem S = Surface Mount	W = White CC = Custom Color AMW = Anti-Microbial White	ACOUSTIC SOLUTIONS See page 4 for all options DIMMING DRIVERS DIM10 = 0-10V (1%) - Standard DIMSR = 0-10V (5.0%) Sensor Ready DIMST = Step Dimming (40%/100%) DALI = DALI (5.0%) DMX = DMX LUTRON™ DRIVERS & SENSORS LDE1 = Hi-Lume™ 1% EcoSystem™ L3DA3W = Hi-Lume™ 1% 3-Wire VDO = Vive Sensor by Lutron AWNRR = Athena RF/Node AWNS = Athena Wireless Sensor SENSORS & CONTROLS ESN = Philips™ EasySense DAY = Daylight Harvesting OCC = Occupancy Sensor CAS = Casambi Bluetooth EMERGENCY EMC = Emergency Circuit GTD = Generator Transfer Device EPC4 = 4W Emergency Battery Pack EPC7 = 74 Emergency Battery Pack EPC10 = 10W Emergency Battery Pack EPC12 = 10W Emergency Battery Pack

¹ CCT @ 80+CRI, 3SDCM. For 90CRI add prefix "9"; ex: 935 = 3500K, 90CRI.

² BIOS SkyBlue Biological Static & Dynamic page 3.

³ Tunable White, RGB +White and Advanced Color ordering codes page 2.

⁴ See page 5 for actual sizes.

⁵ See page 6 for photometrics and mounting details.



TUNABLE WHITE - Fixture Level Control



Day-O-Lite offers Tunable White in a range from 2700K-6500K CCT @ 80+CRI and 3SDCM color accuracy for a range of two-channel control options. Consult factory for 90CRI, electrical specifications and other details for each option below.

2ESN Option combines tunable white light with a fixture integrated occupancy and daylight harvesting sensor. CCT and intensity is controlled wirelessly with kinetic switches (by Illumra and others). Occupancy and daylight harvesting controlled automatically with parameters configurable with the Philips MasterConnect app available for Android and iPhone smart phones.

Applications:

- Spaces occupied overnight (~ 7pm to 7am)
- 24-hour spaces
- Shiftwork & Hospitals
- Senior Living, Alzheimer's Dementia & Assisted Living
- Higher Education, including student and staff
- Workplace, including areas occupied after 7pm

Ordering Codes:

2DIM10 = 0-10V
2DMX = DMX
2PSQ = Lutron Quantum
2CAS = Casambi Wireless
2ESN = Philips EasySense Sensor
2AWN = Lutron Athena RF only
2AWNS = Lutron Athena RF/Sensor

RGB + WHITE - Fixture Level Control



Combine RGB for color effects with LO/SO/HO white CCT's for **general illumination** in a host of applications. All options require DMX control (by others). 80CRI w/3SDCM color accuracy is standard. Consult factory for 90CRI, electrical specifications and other details for each option below. May not be compatible with all fixture variations - consult factory for details when ordering.

Applications:

- Entertainment Spaces
- Hospitality & Banquet
- Theatre & Stage
- Seasonal Applications
- Branding
- Wayfinding

Ordering Codes:

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

ADVANCED COLOR - 125mm Pixel Level Control



Day-O-Lite's Advanced Color options combine RGB or RGBW with multi-pixel control for advanced **chases**, animated **visual effects** and other programmable scenes with **125 mm pixel** granularity. Choose from a vibrant color palette with RGB or RGBW LEDs for seamless color mixing and dimming - the perfect replacement for glass neon with improved reliability and durability.

Requires configuration with a remote proprietary digital drive power supply. Auto-addressing makes setup and commissioning quick and easy. DMX (by others) required for control. May not be compatible with all fixture variations - consult factory for details when ordering.

Applications:

- Architectural Installations
- Digital Signage
- Arcades, Clubs
- Theatre & Stage
- Film & TV sets
- Indoor/Outdoor (IP66)

Ordering Codes:

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 pinpoint 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 or by contacting Day-O-Lite directly.

BIOS Biological Static - Daytime Solution

BIOS Biological Static solutions are designed for daytime applications. BIOS Static Biological LED features key BIOS SkyBlue™ (490nm) for maximum daytime circadian impact. BIOS Static Biological LED Light Engines are available in 3000K, 3500K, and 4000K. Lighting controls are easy; simply switch the lights on/off or the lights can be dimmed using a single-channel constant current (CC) LED driver with any standard dimming interface.

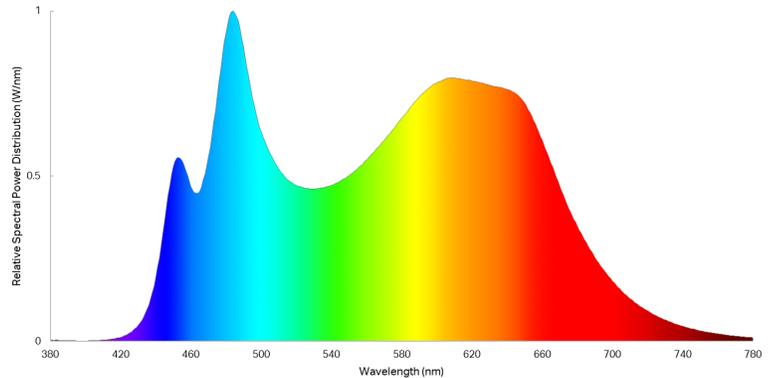
Applications:

- Spaces occupied during the daytime ~7am – 7pm
- K-12 Schools / Higher Education
- Offices
- Daytime Adult Care Facilities
- Medical Offices

BIOS Biological Static
Ordering Codes:

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

BIOS Biological Static 3500K



BIOS Biological Dynamic - Day & Night Solution A

BIOS Biological Dynamic solutions are 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™ altogether, providing a minimal circadian stimulus after hours. Available in 3000K-2700K, 3500K-3000K and 4000K-3500K. Simply dim the lights in the evening to remove the daytime SkyBlue wavelengths (490nm) and convert your lights from day mode to night mode via a single controller (0-10V, ELV, DMX, Wireless).

BIOS Biological Tunable White - Day & Night Solution B

BIOS Biological Tunable solutions are 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™ altogether, providing a minimal circadian stimulus after hours. Available in 3000K-2700K, 3500K-3000K and 4000K-3500K. Simply dim the lights in the evening to remove the daytime SkyBlue wavelengths (490nm) and convert your lights from day mode to night mode via a single controller (0-10V, ELV, DMX, Wireless).

BIOS Biological Tunable is also compatible with two-channel color tuning systems. Simply dim the lights in the evening to convert your lights from day mode to night mode via a multi-channel controller (0-10V, ELV, DMX, Wireless). 3000K, 3500K and 4000K CCTs all dim to 2700K.

Applications:

- Spaces occupied overnight (~ 7pm to 7am)
- 24-hour spaces
- Shiftwork & Hospitals
- Senior Living, Alzheimer's Dementia & Assisted Living
- Higher Education, including student and staff
- Workplace, including areas occupied after 7pm

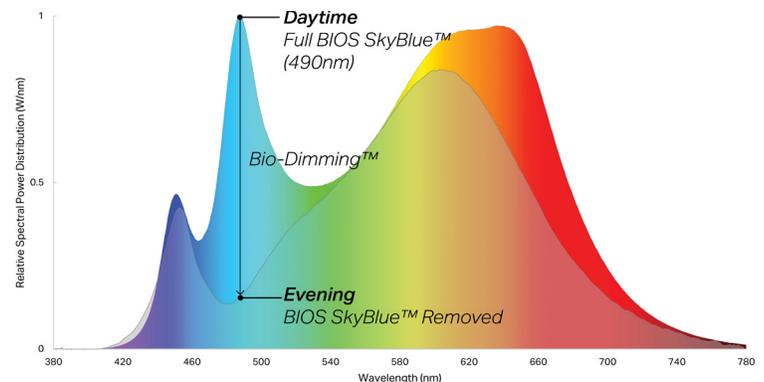
BIOS Biological
Dynamic White
Ordering Codes:

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

BIOS Biological
Tunable White
Ordering Codes:

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

BIOS Biological Dynamic 3500K



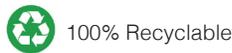


HOW TO SPECIFY

- 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



NON-ILLUMINATED BAFFLES

Non-Illuminated baffles matching the color and size of specified fixtures may also be ordered. These may be used as "fillers" between fixtures for added sound suppression, or alone as decorative elements. Specify as follows: PRFL-24-NIB (non-illuminated baffle)-XX (color)-YY (panel height). Example: PRFL-24-NIB-SL-16 = Profile 24 size, non-illuminated baffle, Slate color, 16" high panel. Day-O-Lite non-illuminated baffles are supplied with the same aircraft cable suspension as our acoustic luminaires and feature a closed bottom with a bevel detail to match fixtures.

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. Onsite removal may result in damage and void warranty. Fixtures must be stored and installed in an interior dry location at a minimum of 52F.

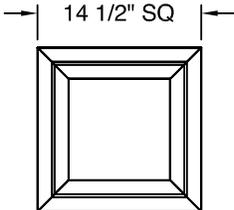
A NOTE ON SOUND ABSORPTION

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.

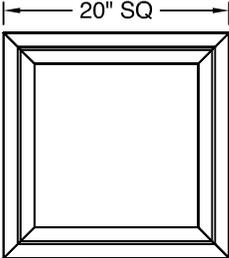


MD = Mandarin

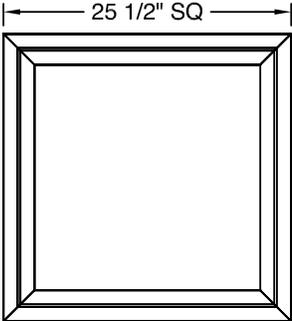
Dimensions



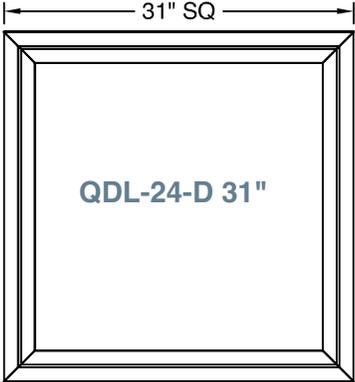
QDL-24-D 14"



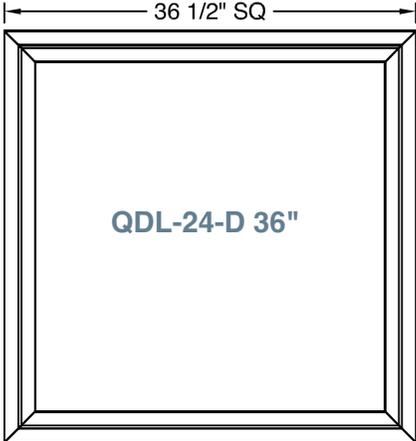
QDL-24-D 20"



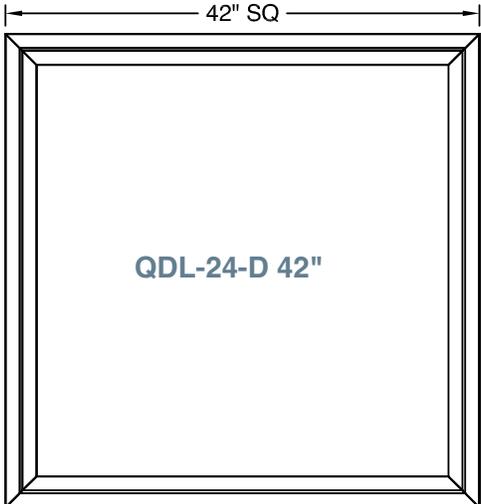
QDL-24-D 25"



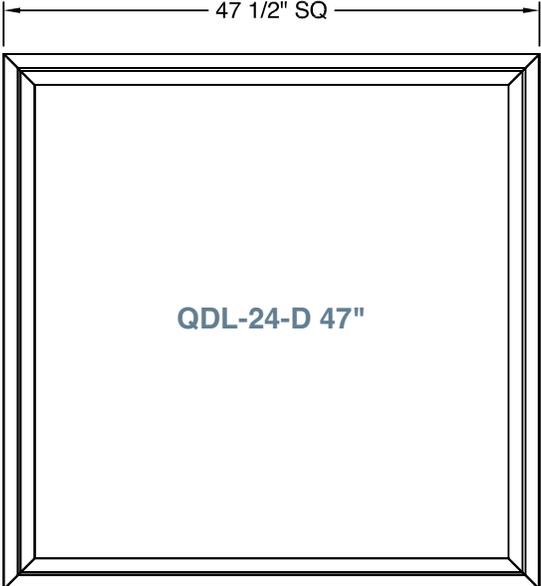
QDL-24-D 31"



QDL-24-D 36"

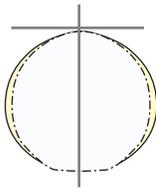


QDL-24-D 42"



QDL-24-D 47"

Photometry



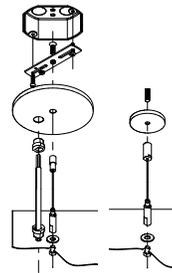
SIZE	LO LUMENS	LO WATTS	LO LPW	SO LUMENS	SO WATTS	SO LPW	HO LUMENS	HO WATTS	HO LPW
14"	2005	20	100	2669	26	103	3338	32	105
20"	3007	30	100	4005	39	103	5015	48	105
25"	4045	40	101	5401	52	104	6755	63	107
31"	5049	50	101	6738	65	104	8409	79	106
36"	6063	60	101	8083	77	104	10,102	95	106
42"	7074	70	101	9423	91	104	11,792	111	106
47"	8100	80	101	10,823	103	105	13,517	127	106

3500K @ 80CRI, 100% direct distribution, **FL** lens (download IES files @ www.dayolite.com)

Standard Suspensions

Standard suspension options include adjustable self-locking aircraft cables (AC), a 3-into-1 monopoint (ACM) 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 = Aircraft Cable



PD = Pendant Stem

Specifications

ACOUSTIC PANELS 1/2" thick, 100% recyclable PET material, Class A fire rating, moisture, mold and UV fade resistant.

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 (FL) Direct.

LED Static white LED modules in 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 Luminaires are 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. RoHS compliant. DLC V5.1 listed. Declare Red List Approved.