



# Trilogy Series | TRIL-24-D Acoustic

Date		Notes
Project		
Type	Qty	

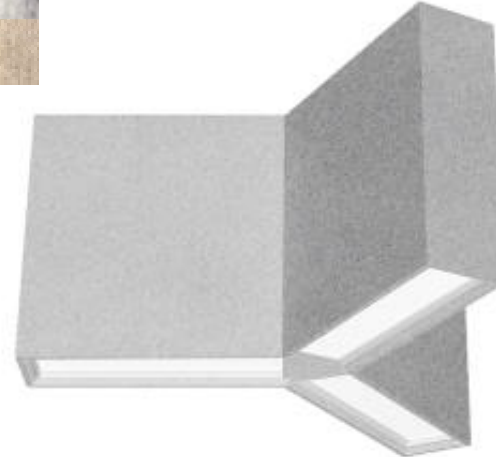
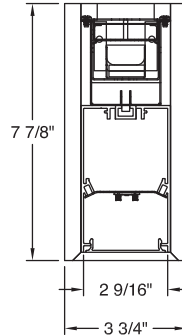


20 unique colors & 4 wood grain finishes.

## Features

- Combines noise control and illumination.
- Extruded aluminum housing w/welded end-plates.
- LED optimized optics for smooth, efficient illumination.
- Programmable driver for custom lumen packages.
- 0-10V dimming to 1% standard or Dim-to-Off.
- DMX, Lutron and DALI protocols also available.
- Sensor Ready for wireless Smart Lighting Solutions.
- 80/90CRI, Tunable White, RGB & RGBWW.
- Bios SkyBlue™ circadian solutions available.

**Declare** Red List Approved.



## Ordering Guide



MODEL	OPTICS	CCT <sup>1</sup>	LUMENS <sup>2</sup>	LENGTH	MOUNTING <sup>3</sup>	FINISH	OPTIONS
<b>TRIL-24-D</b>	<b>SI</b>						
TRIL-24-D Direct Acoustic	FL = Flush Opal Acrylic (standard snap-in) DL = 1" Drop Opal Acrylic (snap-in) SI = Satin Ice Acrylic (lay-in) SIL = Satin Ice lens w/internal Cross Baffle (white)	27 = 2700K 80CRI 30 = 3000K 80CRI 35 = 3500K 80CRI 40 = 4000K 80CRI 50 = 5000K 80CRI  <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>2' LUMENS</b> LO = 1324 (23W, 57LPW) SO = 1718 (31W, 55LPW)  HO = 2125 (39W, 54LPW)  <b>4' LUMENS</b> LO = 2806 (55W, 51LPW) SO = 3733 (73W, 51LPW)  HO = 4650 (91W, 51LPW)  <b>6' LUMENS</b> LO = 4229 (85W, 50LPW) SO = 5655 (114W, 50LPW)  HO = 6936 (142W, 49LPW)  <b>CUSTOM</b> Specify < HO.	2 = 2' Dia. 4 = 4' Dia. 6 = 6' Dia. See page 3/4.	<b>STANDARD</b> AC = Aircraft Cable (3) ACM = Aircraft Mono-Point (3-into-1) PD = Pendant Stem (3)	<b>FIXTURE HOUSING</b> W = White CC = Custom Color  <b>ACOUSTIC SOLUTIONS</b> See page 4 for Acoustic color options, ordering codes and technical information.	<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 &amp; OTHER</b> FWH = Flexible Wiring Harness DWH = DMX 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, 4000K, SI lens. Photometry page 4.

<sup>3</sup>See page 4 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 & 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 = 5000K-3000K 90 CRI

**RGB/W<sup>3</sup>**

(80 CRI, Consult factory for 90 CRI)

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

**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](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 a 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 a minimal circadian stimulus after hours.

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

**Sensors & 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).

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

Day-O-Lite's acoustic options integrate energy efficient architectural lighting with advanced sound absorbing technology in a sustainable, eco-friendly solution. Functional, attractive and easy to install, Day-O-Lite's acoustic solutions are ideal for use in educational, office, commercial, theatre and lobby applications.



**HOW TO SPECIFY**

- 1) Select color code from color swatches above.
- 2) Select height of acoustic panel - 8", 12" or 16".
- 3) Combine color and height to make complete code. Example: SK-12 = Sky, 12" high, FO-8 = Fossil, 8" high.
- 4) Enter completed code in Options section of Ordering Guide on page 1 of this Specification Sheet.

**SPECIFICATIONS**

- 100% Recyclable Polyester Material
- 1.6 Noise Reduction Coefficient (NRC)
- Class A Fire Rating
- Moisture and Mold Resistant
- UV Fade Resistant
- Stain repellent available



**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: TRIL-24-NIB (non-illuminated baffle)-XX (color)-YY (panel height). Example: TRIL-24-NIB-SL-16 = Trilogy 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. 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**

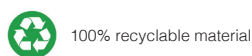
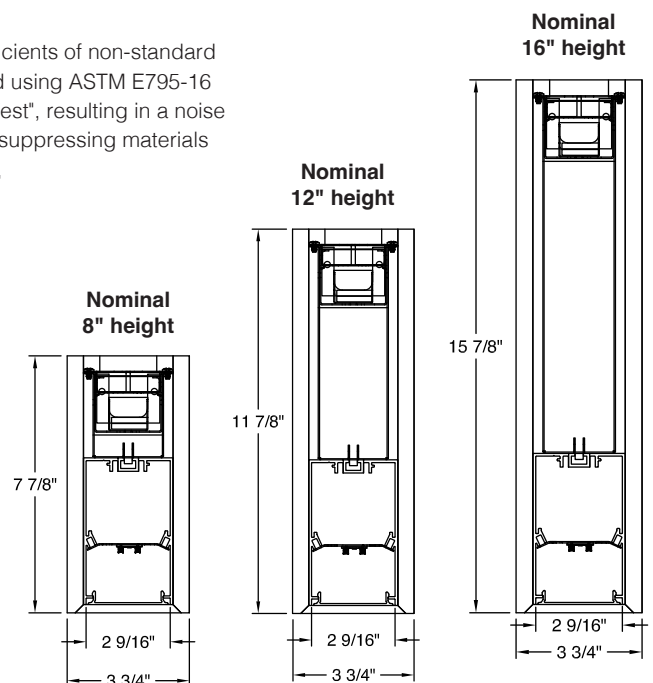
Per ASTM C423 there is no standard way to calculate sound absorption coefficients of non-standard shapes, sizes or spacing of material. Day-O-Lite's acoustic fixtures are tested using ASTM E795-16 Standard "Practices for Mounting Test Specimens During Sound Absorption Test", resulting in a noise reduction 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.

Additionally, more sound absorbing material in a space will result in greater sound suppression than less. Acoustic fixtures with 16" tall panels will be more effective at sound absorption than those with 8" or 12" high panels.

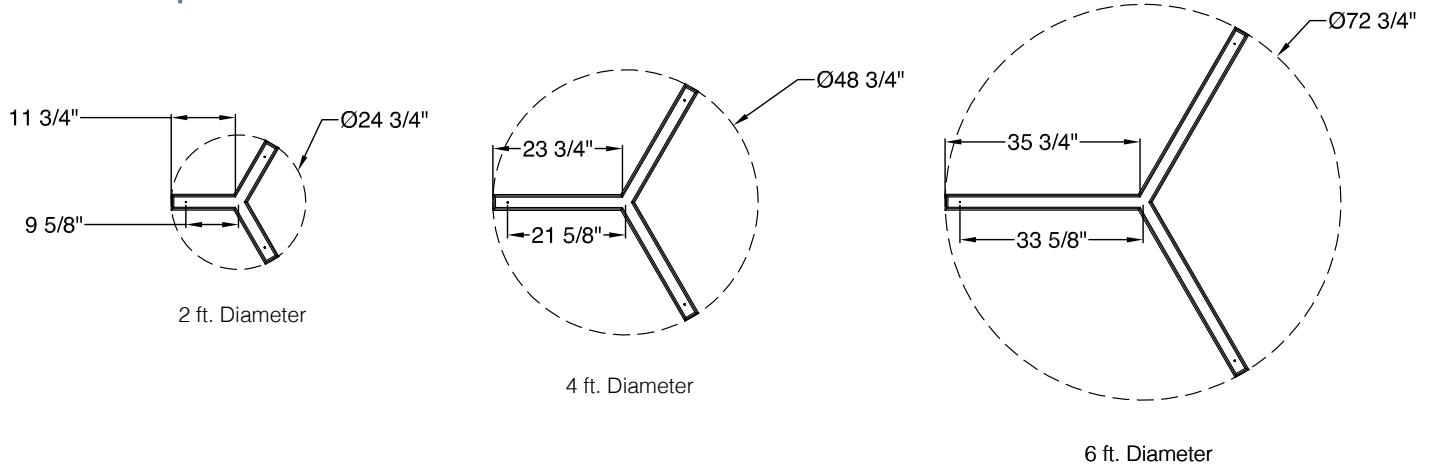
The full Acoustic Test Report, Certified Letter of Apparent NRC and Storage, Cleaning and Care information is available at [www.dayolite.com](http://www.dayolite.com).

**CUSTOM ACOUSTICS**

Acoustic Solutions may also be ordered in custom panel heights and with other custom modifications. Please contact Day-O-Lite directly to discuss your custom acoustic solutions today.



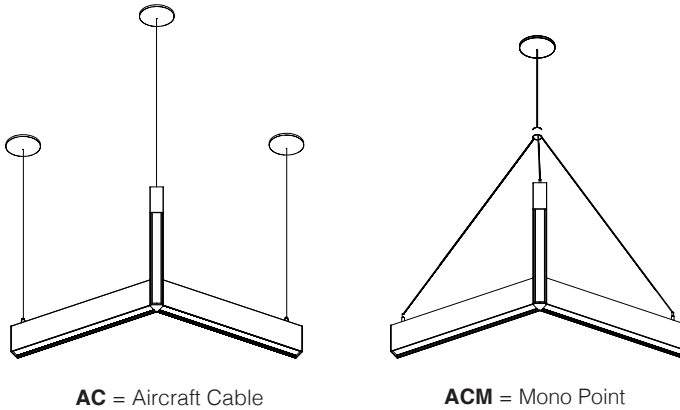
### Sizes & Suspension Locations



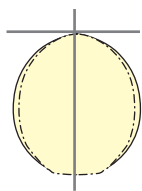
### Standard Suspensions

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

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.



### Photometry



TRIL-24-D-SI-40-2	TRIL-24-D-SI-40-4	TRIL-24-D-SI-40-6
<b>LO</b> 4000K CCT WATTS: 23 LUMENS: 1324 LPW: 57 Distribution: 53% Direct 47% Indirect	<b>LO</b> 4000K CCT WATTS: 55 LUMENS: 2860 LPW: 51 Distribution: 53% Direct 47% Indirect	<b>LO</b> 4000K CCT WATTS: 85 LUMENS: 4229 LPW: 50 Distribution: 53% Direct 47% Indirect
<b>SO</b> 4000K CCT WATTS: 31 LUMENS: 1718 LPW: 55 Distribution: 53% Direct 47% Indirect	<b>SO</b> 4000K CCT WATTS: 73 LUMENS: 3733 LPW: 51 Distribution: 53% Direct 47% Indirect	<b>SO</b> 4000K CCT WATTS: 114 LUMENS: 5655 LPW: 50 Distribution: 53% Direct 47% Indirect
<b>HO</b> 4000K CCT WATTS: 39 LUMENS: 2125 LPW: 54 Distribution: 53% Direct 47% Indirect	<b>HO</b> 4000K CCT WATTS: 91 LUMENS: 4650 LPW: 51 Distribution: 53% Direct 47% Indirect	<b>HO</b> 4000K CCT WATTS: 142 LUMENS: 6936 LPW: 49 Distribution: 53% Direct 47% Indirect

40000K @ 80CRI, SI lens.

Use the following multipliers for other CCTs: 2700K x 0.94, 3000K x 0.96, 3500K x 0.98, 5000K x 1.02. IES files @ [www.dayolite.com](http://www.dayolite.com)

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## Specifications

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

**CONSTRUCTION:** Extruded aluminum housing. 20 gauge cold rolled steel internal components.

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

**OPTICS:** LED optimized, shatter resistant Satin Ice acrylic regressed lens.

**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, RGBWW. Tunable White and Dim-to-Warm options available.

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

**MOUNTING:** Standard options include adjustable self-locking aircraft cables, and a 3-into-1 aircraft cable monopoint. 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.

**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., BAA compliant, Declare Red List Approved.

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