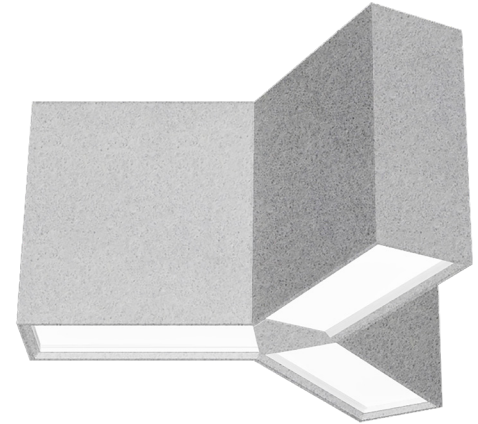# DAY-O-LITE

Trilogy Series | TRIL-44-D Acoustic

Date

Notes

Project

Type   Qty

Direct

20 unique colors to choose from. See page 2 to specify.

12" Panel Shown
Cross Sections
on page 2.

Features

Combines noise control and illumination in a simple lighting and acoustic solution.

Boosts human performance by reducing distracting noise levels and reverberations.

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

Improves privacy during sensitive communication by reducing echoes and reflected sound.

Creates a decorative floating ceiling in otherwise open-ceiling interior applications.

Ordering Guide

MODEL	OPTICS	CCT	LUMENS[2]	SIZE[3]	MOUNTING[3]	FINISH	OPTIONS[4]
TRIL-44-D	**SI**						
TRIL-44-D Direct Acoustic	FL = Flush Opal Acrylic (snap-in) DL = Drop Opal Acrylic (snap-in) SI = Satin Ice Acrylic (lay-in)	27 = 2700K 80CRI 30 = 3000K 80CRI 35 = 3500K 80CRI 40 = 4000K 80CRI 50 = 5000K 80CRI 90 CRI add "9" Ex: 940 = 4000K @ 90 CRI **TUNABLE WHITE & COLOR**[1] <u>2-Channel White</u> 2DIM10 = for 0-10V 2DALI = for DALI 2DMX = for DMX 2PSQ = for Lutron 2SNS = for Signify 2CAS = for Casambi <u>3-Channel White</u> 3DML = for DLM <u>3-Channel Color</u> RGB <u>4-Channel Color/White</u> RGBW <u>5-Channel Color/Warm White/Cool White</u> RGBWW .	**2' LUMENS** LO = 1512 (16W, 95LPW) SO = 2035 21W, 95LPW) HO = 2426 (26W, 93LPW) **4' LUMENS** LO = 3274 (32W, 103LPW) SO = 4358 (42W, 103LPW) HO = 5420 (53W, 102LPW) **6' LUMENS** LO = 4955 (47W, 105LPW) SO = 6625 (63W, 105LPW) HO = 8130 (79W, 102LPW)	2 = 2' Dia. 4 = 4' Dia. 6 = 6' Dia. See size detail page 4.	AC = Aircraft Cable (3) ACM = Aircraft Mono-Point (3-into-1)	**FIXTURE HOUSING** W = White **ACOUSTIC SOLUTIONS** See page 2 for Acoustic color options, ordering codes and technical information.	**ACOUSTIC OPTIONS** See page 2 for acoustic options ordering codes and information. **DIMMING DRIVERS** DIM10 = 0-10V (1.0%) - **Standard** DIMSR = 0-10V (5.0%) Sensor Ready DIMST = Step Dimming (40%/100%) DALI = DALI (5.0%) **LUTRON™ DIMMING DRIVERS** LDE1 = Hi-Lume™ 1% EcoSystem™ LDE5 = 5-Series 5% EcoSystem™ L3DA3W = Hi-Lume™ 1% 3-Wire LTEA2W = Hi-Lume 1% 2-Wire 120V **SENSORS & CONTROLS** ESN = Philips™ EasySense DAY = Daylight Harvesting OCC = Occupancy Sensor CAS = Casambi Bluetooth control VDO = Vive Sensor by Lutron **EMERGENCY** EMC = Emergency Circuit GTD = Generator Transfer Device EPC4 = 4W Emergency Battery Pack EPC7 = 7W Emergency Battery Pack EPC10 = 10W Emergency Battery Pack EPC12 = 12W Emergency Battery Pack

[1]Tunable white, tunable color options detailed on page 4.

[2]Delivered Lumens are Standard Output (SO) and Low Output (LO) at 80+CRI 4000K CCT. Use the following multiplier to estimate delivered lumens at other CCTs: 2700K = 0.94, 3000K = 0.96, 3500K = 0.98, 5000K = 1.02. All values nominal. See page 2 for photometrics.

[3]See page 4 for actual fixture dimensions and suspension locations.

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.

| Sky = SK | CO = Cobalt | MK = Malachite | GS = Grass | SS = Sunshine | MD = Mandarin | OC = Ochre | IV = Ivory | FR = Frost | CH = Chambray |
| SM = Smoke | CA = Cadet | PW = Pewter | FO = Fossil | GR = Greige | SL = Slate | TR = Tar | LI = Linen | EC = Ecru | BK = Bark |

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

DOWNLOADS

Visit www.dayolite.com to download the following:

Acoustic Test Report

Letter of Apparent NRC

Care and cleaning information

Installation Guide

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-44-NIB (non-illuminated baffle)-XX (color)-YY (panel height). Example: TRIL-44-NIB-SL-16 = Trilogy 44 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 minumum of 52F.

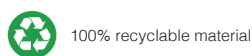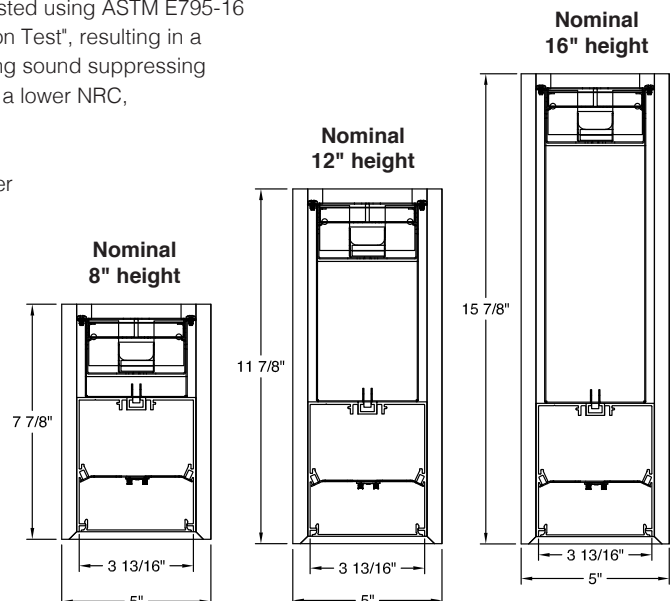## A NOTE ON SOUND ABSORPTION

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.

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.

Nominal 8" height

7 7/8"

3 13/16"

5"

Nominal 12" height

11 7/8"

3 13/16"

5"

Nominal 16" height

15 7/8"

3 13/16"

5"

100% recyclable material

Tunable White & Tunable Color

DAY-O-LITE

Day-O-Lite offers a variety of tunable white and tunable color options for a range of human centric applications and budgets. It is recommended that a recognized authority on the benefits and best practices of tunable white be consulted prior to specification. As a rule, fewer channels will provide a basic level of performance for budget conscious applications. Conversely, an increased number of channels, a wider CCT range, higher CRI and more precise color consistency may be more appropriate depending on the application and desired results.

HOW TO SPECIFY

Select from the various channel/control options below and insert desired **Ordering Code** into the **COLOR TEMP** column of the Ordering Guide on page 1. No need to add a dimming option as the codes include the chosen protocol.

2-CHANNEL TUNABLE WHITE OPTIONS

2700K - 6500K CCT range

1000L/ft LED modules @ 4000K

80+ CRI w/3SDCM color accuracy

10W/ft. nominal power

Ordering Codes

2DIM10	for 0-10V control
2DALI	for DALI control
2DMX	for DMX control
2PSQ	for Lutron Quantum control
2SNS	for control via Signify SNS sensors
2CAS	for control via Casambi BLE wirelss devices

LEGRAND BLANCO MULTI-CHANNEL OPTIONS

Blanco-2

Blanco-2 mixes two channels of white LEDs to approximate the blackbody curve for tunable white applications. CCT and intensity may be adjusted with controls by others.

3000K-5000K CCT range

1000L/ft LED modules @ 4000K

90+ CRI w/2SDCM color accuracy

10W/ft. nominal power

Ordering Codes

B2DLM   for DLM control

Blanco-3

Blanco-3 mixes three channels of white LEDs across a wider range of color temperatures for more demanding tunable white applications. CCT and intensity may be adjusted with controls by others.

2700K-6500K CCT range

1000L/ft. LED modules @ 4000K

90+ CRI w/SDCM color accuracy

10W/ft. nominal power

Ordering Codes

B3DLM   for DLM control

RGB & RGBW TUNABLE COLOR

RGB = Red, Green, Blue color mixing LEDs

RGB/W = Red, Green, Blue + White of chosen CCT

Dimming form 100% to 1%.

90+ CRI w/3SDCM color accuracy

10W/ft. nominal power

Notes:

RGB requires an RGB DMX or DALI controller (by others)

RGBW requires an RGBW DMX or DALI contoller (by others)

All channels on one driver is standard, if isolating the White from the RGB channels is desired please consult factory.

RGB and RGBW are not recommended for tunable white applications.
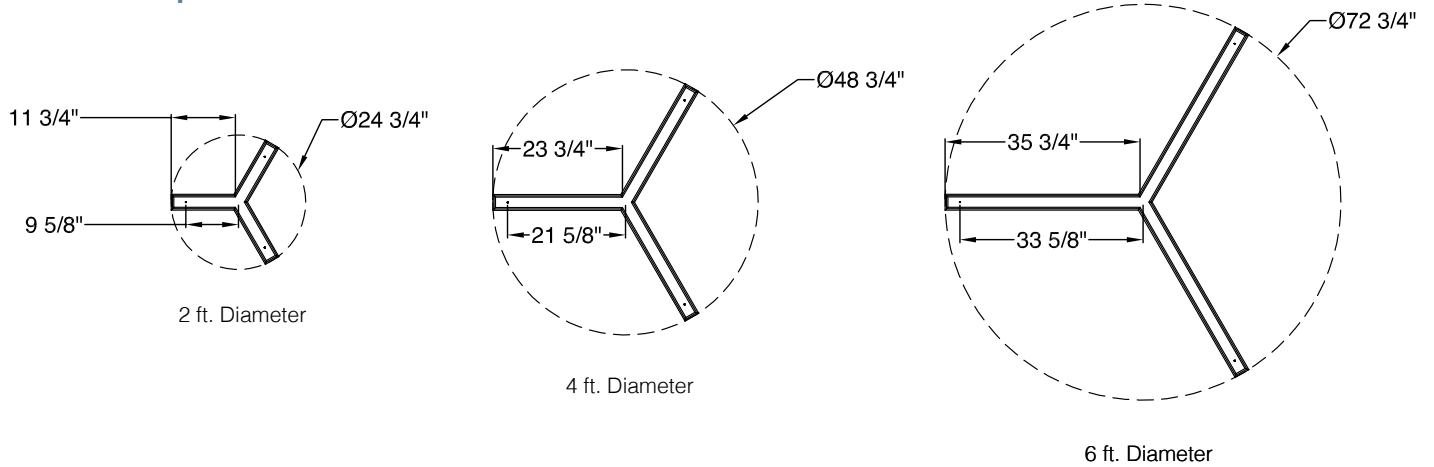
Ordering Codes

RGB	for DMX control
RGB27	for DMX control w/2700K white
RGB30	for DMX control w/3000K white
RGB35	for DMX control w/3500K white
RGB40	for DMX control w/4000K white
RGB50	for DMX control w/5000K white
RGB65	for DMX control w/6500K white

Add Suffix **DAL** for DALI Control to codes above.

5-CHANNEL TUNABLE WHITE AND COLOR

RGBWW = Red, Green, Blue, Warm White, Cool White.

Consult factory for RGBWW tunable white/color options.
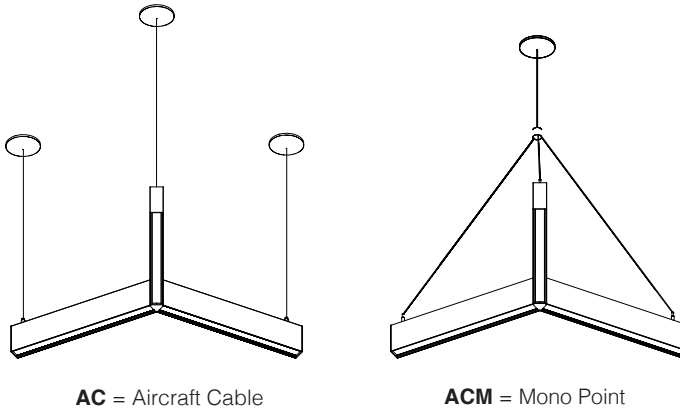
Day-O-Lite makes no claims as to the psychological or physiological efficacy of the white color tuning options offered herein.

Sizes & Suspension Locations

11 3/4"
9 5/8"
Ø24 3/4"

2 ft. Diameter

23 3/4"
21 5/8"
Ø48 3/4"
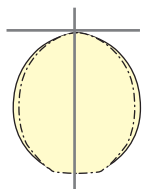
4 ft. Diameter

35 3/4"
33 5/8"
Ø72 3/4"

6 ft. Diameter

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.

AC = Aircraft Cable

ACM = Mono Point

Photometry

TRIL-44-D-SI-40-2	TRIL-44-D-SI-40-4	TRIL-44-D-SI-40-6
LO 4000K CCT WATTS: 16 LUMENS: 1512 LPW: 95 Distribution: 53% Direct 47% Indirect	**LO** 4000K CCT WATTS: 32 LUMENS: 3274 LPW: 103 Distribution: 53% Direct 47% Indirect	**LO** 4000K CCT WATTS: 47 LUMENS: 4955 LPW: 103 Distributi5n: 53% Direct 47% Indirect
SO 4000K CCT WATTS: 21 LUMENS: 2035 LPW: 95 Distribution: 53% Direct 47% Indirect	**SO** 4000K CCT WATTS: 42 LUMENS: 4358 LPW: 103 Distribution: 53% Direct 47% Indirect	**SO** 4000K CCT WATTS: 63 LUMENS: 6625 LPW: 105 Distribution: 53% Direct 47% Indirect
HO 4000K CCT WATTS: 26 LUMENS: 2426 LPW: 93 Distribution: 53% Direct 47% Indirect	**HO** 4000K CCT WATTS: 53 LUMENS: 5420 LPW: 102 Distribution: 53% Direct 47% Indirect	**HO** 4000K CCT WATTS: 79 LUMENS: 8130 LPW: 102 Distribution: 53% Direct 47% Indirect

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 Satin Ice (SI) acrylic regressed lens.

LED   LED modules in 30/35/40 & 50K CCT, 80/90CRI. Lumen maintenance minimum L_{70}= 50,000 hours. 3 SDCM color consistency.

DRIVER   Standard driver is Class 2 AOC 0-10V to 1%, 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 (AC), and a 3-into-1 aircraft cable monopoint (ACM). 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. RoHS compliant.