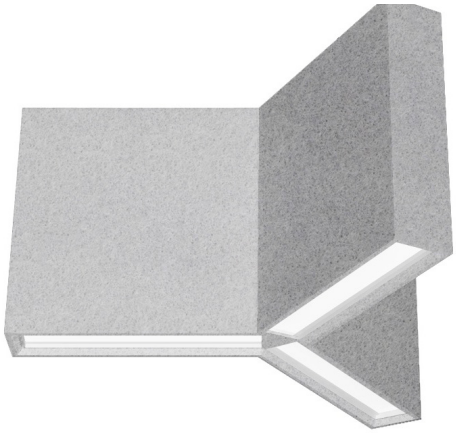
DAY-O-LITE

Trilogy Series | TRIL-14-D Acoustic

Date	Notes
Project	
Type Qty	



Click here for all acoustic color options.

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.

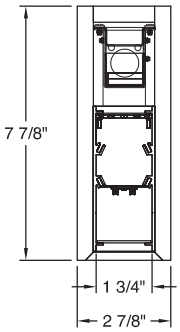
DMX, Lutron and DALI protocols also available.

Sensor Ready for wireless Smart Lighting Solutions.

80/90CRI, Tunable White, RGBW & RGBWW.

Bios SkyBlue™ circadian solutions available.

Declare Red List Approved.



Ordering Guide

MODEL	OPTICS	LED	LUMENS[2]	LENGTH	MOUNTING[3]	FINISH	OPTIONS
TRIL-14-D	**SI**						
TRIL-14-D Direct Acoustic	SI = Satin Ice Acrylic (lay-in)	**STATIC WHITE**[1] 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K **BIOS SkyBlue**[1] Spectrally optimized circadian solutions. **TUNABLE WHITE**[1] (2700K-6500K) 2DIM10 = for 0-10V 2DMX = for DMX 2ESN = for Philips 2CAS = for Casambi 2LUT = for Lutron **DIM-TO-WARM**[1] (6500K - 2700K) DTW = Dim-to-Warm **RGB + WHITE**[1] RGB = RGB RGBW = RGBW RGBWW = RGBWW **ADVANCED COLOR** 125mm incremental pixel color control for chase and animated effects.	**2' LUMENS** LO = 1149 (16W, 73LPW) SO = 1605 21W, 77LPW) HO = 1916 (26W, 73LPW) **4' LUMENS** LO = 2502 (32W, 79LPW) SO = 3333 (42W, 79LPW) HO = 4148 (53W, 78LPW) **6' LUMENS** LO = 3684 (47W, 78LPW) SO = 5027 (63W, 79LPW) HO = 6175 (79W, 78LPW) **CUSTOM** Specify < HO.	2 = 2' Dia. 4 = 4' Dia. 6 = 6' Dia. See page 3/4.	**STANDARD** AC = Aircraft Cable (3) ACM = Aircraft Mono-Point (3-into-1) PD = Pendant Stem (3)	**FIXTURE HOUSING** W = White CC = Custom Color **ACOUSTIC SOLUTIONS** See page 3 for Acoustic color options, ordering codes and technical information.	**DIMMING DRIVERS** 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 **LUTRON™ DIMMING DRIVERS** LDE1 = Hi-Lume 1% EcoSystem LD2 = Digital 1% (DALI-2) L3DA3W = Hi-Lume 1% 3-Wire **SENSORS & CONTROLS**[4] AVO = Avi-On Sensor AWNS = Lutron Athena Sensor ESN = EasySense Sensor CAS = Casambi Wireless Control **EMERGENCY**[5] EMC = Emergency Circuit GTD = Generator Transfer Device EPC4 = 4W Emergency Battery EPC6 = 6.5W Emergency Battery EPC10 = 10W Emergency Battery EPC12 = 12W Emergency Battery **WIRING & OTHER** FWH = Flexible Wiring Harness

[1]All LED, BIOS, Tunable White, DTW, and RGB/W options and Ordering Codes page 2.

[2]Lumens at 80CRI, 4000K, SI lens. Photometry page 4.

[3]See page 4 for mounting option details.

[4]All Sensor & Control options page 2.

[5]EPC6 is standard unless otherwise specified. EPC not for DMX drivers.

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[1]
(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[2]

DTW = 6500K-2700K 80 CRI
9DTW = 5000K-3000K 90 CRI

RGB/W[3]

(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[4]

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 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 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
Designed to transition from daytime to evening in a 500K CCT range dim-to-warm protocol for minimal lumen loss. 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
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. Wider CCT range for more dramatic dimming.

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
ARF = Lutron Athena Node
VIVE = Lutron Vive Occ/Day
NLT = Acuity nLight Occ/Day
NXC = Current NX Occ/Day
ESN = Philips EasySense Occ/Day
WVL = 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.

[1]Tunable white may be controlled by a number of dimming protocols as shown.

[2]Dim-to-Warm mimics incandescent dimming by warming the CCT from 6500K to 2700K as light levels are dimmed.

[3]All RGB, RGBW and RGBWW options for DMX control (by others).

[4]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-14-NIB (non-illuminated baffle)-XX (color)-YY (panel height). Example: TRIL-14-NIB-SL-16 = Trilogy 14 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

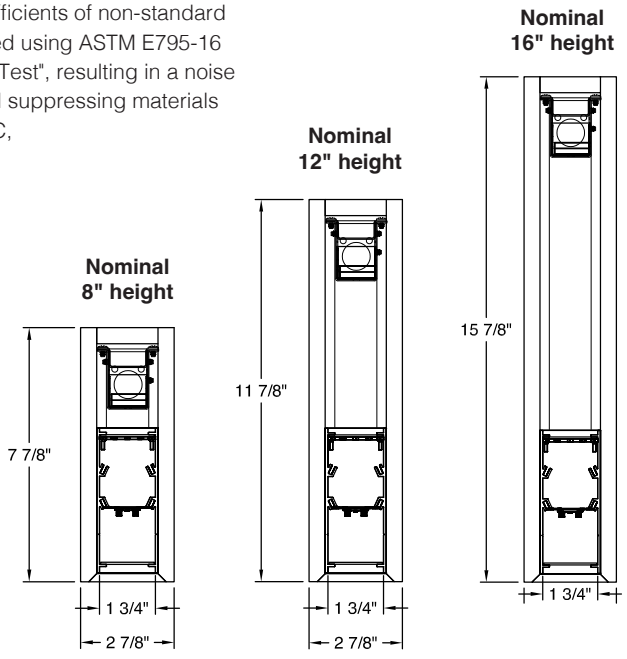
Smoke, Pewter and Slate are standard colors; consult factory for lead-times on other colors. Acoustic panels ship affixed to luminaires and are held in place by stop-blocks and double-sided tape to prevent bowing. On site removal may result in damage and void warranty. Fixtures must be stored and installed 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.

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.

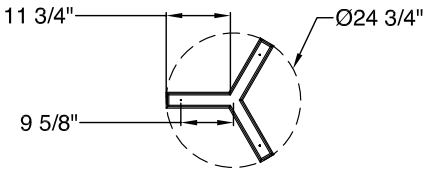


CUSTOM ACOUSTICS

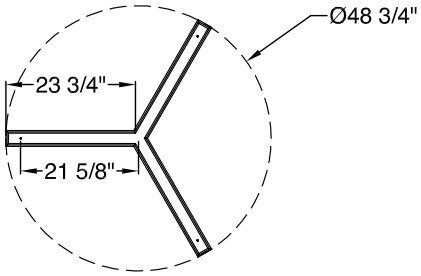
Acoustic Solutions may also be ordered in custom panel heights and with other custom modifications. Please contact Day-O-Lite directly to discuss your custom acoustic solutions today.

100% recyclable material

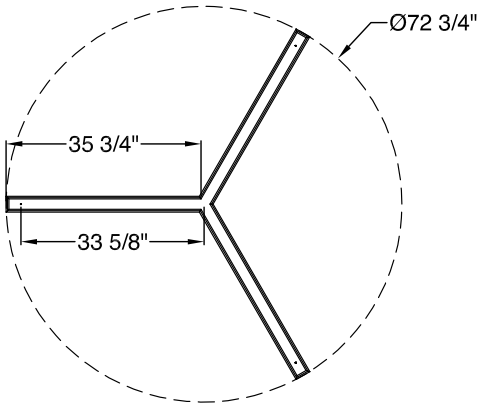
Sizes & Suspension Locations



2 ft. Diameter



4 ft. Diameter

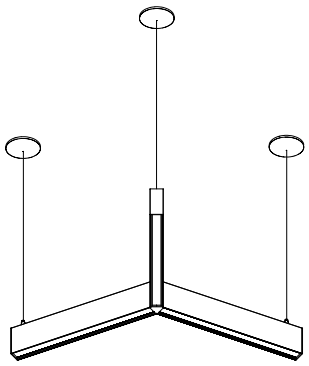


6 ft. Diameter

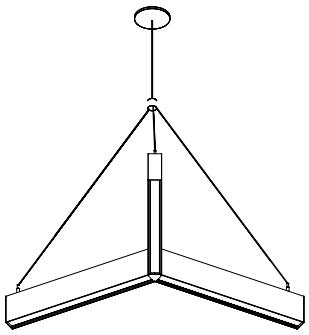
Standard Suspensions

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.

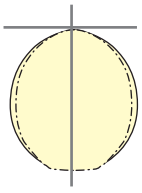


AC = Aircraft Cable



ACM = Mono Point

Photometry



TRIL-14-D-SI-40-2	TRIL-14-D-SI-40-4	TRIL-14-D-SI-40-6
LO 4000K CCT WATTS: 16 LUMENS: 1149 LPW: 73 Distribution: 100% Direct	**LO** 4000K CCT WATTS: 32 LUMENS: 2502 LPW: 79 Distribution: 100% Direct	**LO** 4000K CCT WATTS: 47 LUMENS: 3684 LPW: 78 Distribution: 100% Direct
SO 4000K CCT WATTS: 21 LUMENS: 1605 LPW: 77 Distribution: 100% Direct	**SO** 4000K CCT WATTS: 42 LUMENS: 3333 LPW: 79 Distribution: 100% Direct	**SO** 4000K CCT WATTS: 63 LUMENS: 5027 LPW: 79 Distribution: 100% Direct
HO 4000K CCT WATTS: 26 LUMENS: 1916 LPW: 73 Distribution: 100% Direct	**HO** 4000K CCT WATTS: 53 LUMENS: 4148 LPW: 78 Distribuon: 100% Direct	**HO** 4000K CCT WATTS: 142 LUMENS: 6175 LPW: 78 Distribution: 100% Direct

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

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.

LEGAL: Day-O-Lite, a division of SCW Corporation. All rights reserved. The Day-O-Lite logo is a registered trademark of SCW Corporation. Actual product performance may differ due to end user environment, application and installation. Luminaires have been tested at 25° C ambient temperature. Consult Day-O-Lite for high-ambient conditions. Day-O-Lite reserves the right to change specifications without notice for product improvement.