DAY-O-LITE

Profile Series | PRFL-44-D Acoustic

Date	Notes
Project	
Type Qty	

20 unique colors & 4 wood grain finishes.

8" Panel Shown.
Cross Sections
on page 3.

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.

A **Declare** Red List Approved product.

Ordering Guide

Declare. BAA

MODEL	OPTICS	LED[1]	LUMENS[2]	LENGTH	MOUNTING[3]	FINISH	OPTIONS
PRFL-44-D							
PRFL-44-D Direct Acoustic	**STANDARD** FL = Flush Opal Acrylic (snap-in) **OPTIONAL** DL = 1" Drop Opal Acrylic (snap-in) SCB = Cross Baffle w/acrylic overlay **LIGHT SHAPING** (semi-diffuse) ASP = Asymmetric (snap-in) CM = Collimating (lay-in) BW = Batwing (snap-in)	**STATIC WHITE** 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K **BIOS SkyBlue** Spectrally optimized circadian solutions. **TUNABLE WHITE** (2700K-6500K) 2DIM10 = for 0-10V 2DMX = for DMX 2ESN = for Philips 2CAS = for Casambi 2LUT = for Lutron **DIM-TO-WARM** (2700K-6500K) DTW = Dim-to-Warm **RGB + WHITE** RGB = RGB RGBW = RGBW RGBWW = RGBWW **ADVANCED COLOR** 125mm incremental pixel color control for chase and animated effects.	**STANDARD** LO = 574/ft (5W/ft, 115LPW) SO = 765/ft (7W/ft, 115LPW) HO = 956/ft (8W/ft, 115LPW) **CUSTOM** Specify < HO.	2 = 2 ft 3 = 3 ft 4 = 4 ft 5 = 5 ft 6 = 6 ft 7 = 7 ft 8 = 8 ft For other enter row length (e.g. 12 = 12 ft)	AC = Aircraft Cable PD = Pendant Stem	**FIXTURE HOUSING** W = White CC = Custom Color **ACOUSTIC SOLUTIONS** See page 4 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 347 = 0-10V (347V) 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**[5] AVO = Avi-On Sensor AWNS = Lutron Athena Sensor ESN = EasySense Sensor CAS = Casambi Wireless Control **EMERGENCY**[6] 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 GTD = Generator Transfer Device

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

[2]Lumens at 80CRI, 3500K, FL lens. Photometry page 5.

[3]See page 5 for mounting option details.

[4]All Sensor & Control options page 2.

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

BAA letter of compliance available at 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[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 = 6500K-2700K 90 CRI

RGB/W[3]

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

Advanced Color[5]

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 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 & 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
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).

[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). 80 CRI standard.

[4]Single colors are constant voltage LEDs. Dimming requires ELV controller (by others).

[5]White limited to 100L/ft.

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: PRFL-14-NIB (non-illuminated baffle)-XX (color)-YY (panel height). Example: PRFL-14-NIB-SL-16 = Profile 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 and may be specified as individual units to 8', or as continuous rows.

ADDITIONAL INFORMATION

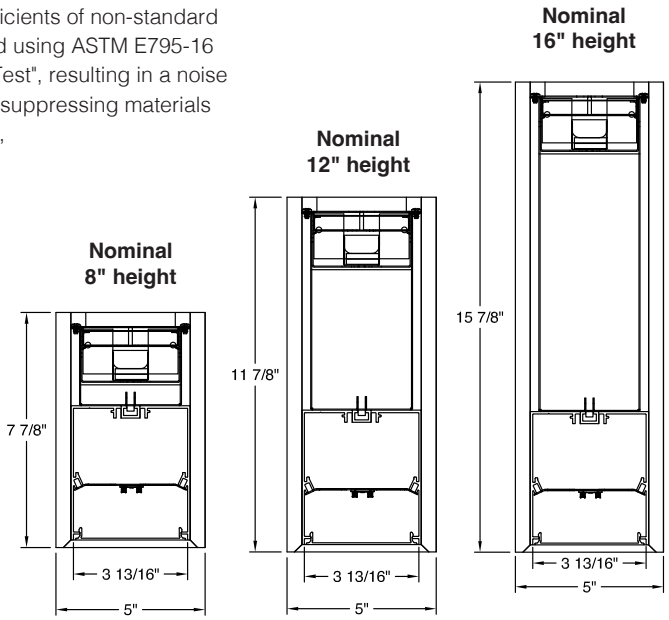
Smoke, Pewter and Slate are standard colors; consult factory for lead-times on other colors. Acoustic panels ship affixed to luminaires and are held in place by stop-blocks and double-sided tape to prevent bowing. On-site removal may result in damage and void warranty. Fixtures must be stored and installed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

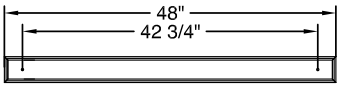
100% recyclable material

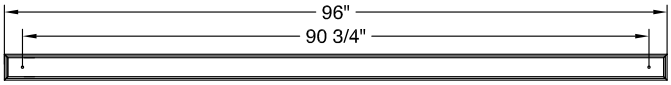
Individual Fixtures & Continuous Rows

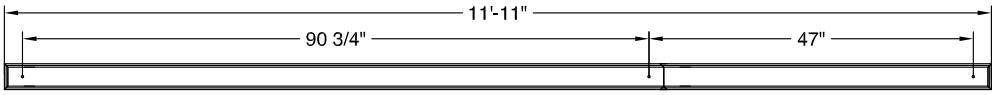
NOMINAL LENGTH	ACTUAL LENGTH	SUSP. 1 O.C.	SUSP. 2 O.C.
4'	48"	42 3/4"	
8'	96"	90 3/4"	
12'	11'-11"	90 3/4"	47"
16'	15'-11"	90 3/4"	95"

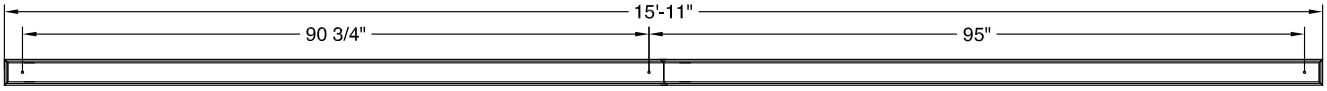
Individual fixtures and rows are continuously illuminated and joined with included aligner brackets and hardware. Mounting locations shown below.

Continuous rows longer than 8', including EPC/EMC and sensor locations must be approved prior to manufacturing.





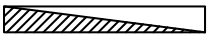




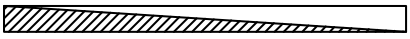
Emergency & Sensor

EPC will control entire length of individual fixtures. Individual fixtures of differing lengths will deliver the same lumens under EPC power (a 4' fixture will deliver the same total lumens over half the length of an 8' fixture). **EMC** controlled individual fixtures will deliver lumens per foot as originally specified, unless dimmed at time of power loss. Consult factory for EMC dimming override device.

4' Individual

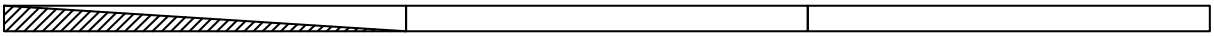


8' Individual



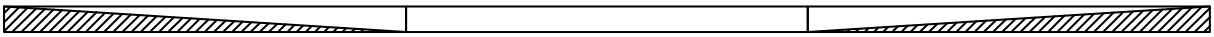
For individual fixtures to 8' **EPC/EMC** will power entire fixture.

24' Row (3x8')



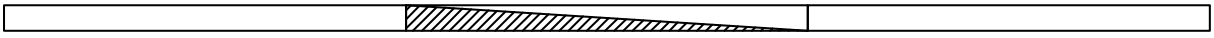
For continuous rows longer than 8' one **EPC/EMC** will be located in the feed section (end-left) of the row.

24' Row (3x8')



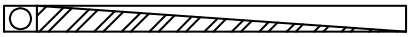
If two **EPC/EMC**'s are required their locations will be in the feed section (end-left) and last section (end-right).

24' Row (3x8')



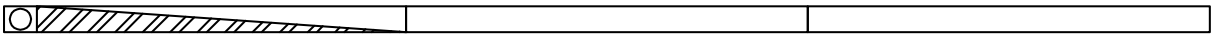
Custom placement of one or more **EPC/EMC**'s must be clearly identified during ordering.

8' Individual



SENSORS for individual fixtures will control entire length of fixture and will be located on feed end of fixture.

24' Row (3x8')

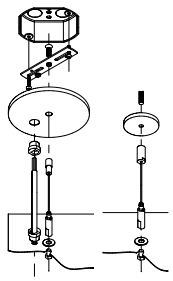


SENSORS for rows will control the feed section (end-left) of the row. Sensors can control more than an 8' section within a row. Consult factory for sensor/section options, or for multiple sensors in a continuous row.

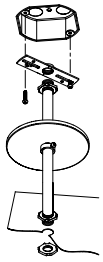
Standard Suspensions

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.

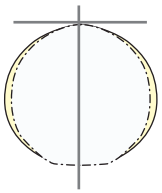


AC = Aircraft Cable



PD = Pendant Stem

Photometry



PRFL-44-D-FL-35-**LO**-4
Flush Lens

3500K CCT
WATTS: 20
LUMENS: 2296
LPW: 115

PRFL-44-D-FL-35-**SO**-4
Flush Lens

3500K CCT
WATTS: 27
LUMENS: 3060
LPW: 115

PRFL-44-D-**BK**-35-**SO**-4
Black Out Lens (BK)

3500K CCT
WATTS: 27
LUMENS: 125
LPW: 18

PRFL-44-D-FL-35-**HO**-4
Flush Lens

3500K CCT
WATTS: 33
LUMENS: 3823
LPW: 115

3500K @ 80CRI, 4', FL 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 @ 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: Highly reflective baked white enamel with pre-finished reflective LED tray.

OPTICS: Opal acrylic Flush lens is standard. 1" acrylic Drop lens, Steel Cross Baffle with acrylic overlay, Asymmetrical, Batwing, and Collimating lenses available.

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, RGBWW, Advanced Color, Tunable White and Dim-to-Warm options available; field replaceable.

DRIVER: Standard driver is Class 2 AOC 0-10V to 1%, Dim-to-Off available. 120/277V input, PF > 90%, THD < 20 @ 120V. DMX, DALI & Lutron protocols available. All drivers prewired 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. May also be surface ceiling mounted.

FINISH: Housing and components finished in baked white enamel. Canopies and pendant stems are white enamel unless otherwise specified. 5" Feed canopy w/2" Suspension canopies.

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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