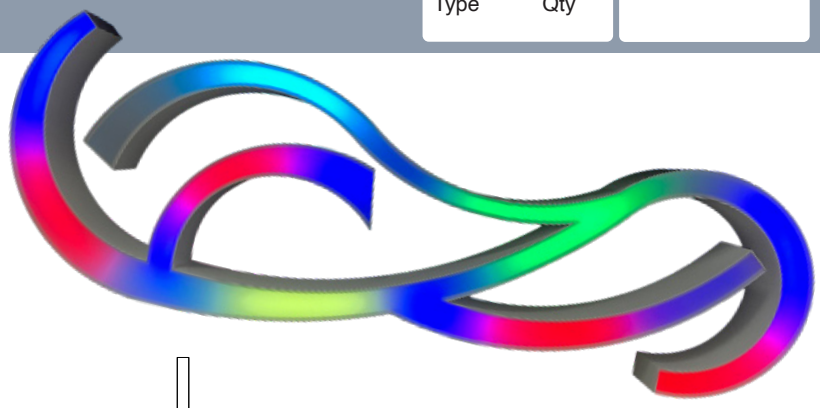
DAY-O-LITE

Arc Series | ARCL-44-D

Date	Notes
Project	
Type Qty	



Features

Custom-rolled aluminum housing w/welded end-plates.

LED optimized optics in multiple configurations.

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.

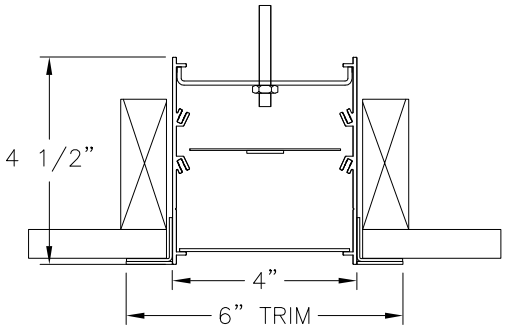
Sensor Ready for wireless Smart Lighting Solutions.

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

Bios SkyBlue™ circadian solutions available.

Advanced Color (RGBW) w/pixel control to 5".

Declare Red List Approved.



Ordering Guide

MODEL	OPTICS	LED[1]	LUMENS[2]	SIZE	MOUNTING[3]	FINISH	OPTIONS
ARCL-44-D	**DP**						
ARCL-44-D Direct	DP = Diffuse Polycarbonate (lay-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.	LO = 600/ft (5W/ft,115LPW) SO = 800/ft (7W/ft,113LPW) HO = 950/ft (9W, 109LPW) **CUSTOM** Specify lumen value < HO.	Arc is a 100% customizable product. See page 3 for instrucions for creating SIZE ordering code.	F = Flange TRL = Trimless	W = White CC = Custom Color AMW = Anti-Microbial White	**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** TCW = Two Circuit Wiring FWH = Flexible Wiring Harness DWH = DMX Wiring Harness

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

[2]Lumens at 80CRI, 4000K, DP 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.

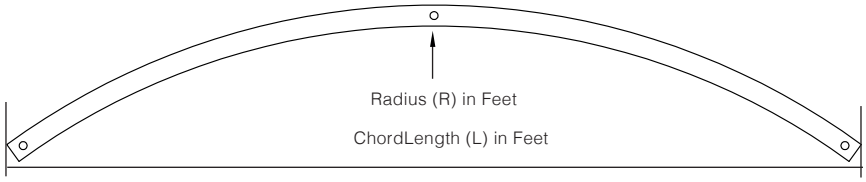
BAA letter of compliance available at www.dayolite.com.

Configuring Size Code

Arc may be ordered in virtually any radius and length and is easy to specify. Simply use order code "XRL" where XR = Radius, and L = Length in feet. Day-O-Lite will design length to closest LED module length and provide drawings for approval.

Examples:

30' radius, 20' length = 30R20
10' radius, 12' length = 10R12
6' radius, 4' length = 6R4



Pattern Guide

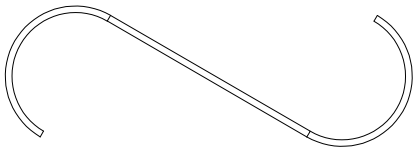
Arc may be specified in patterns of virtually any configuration. All patterns and radii are continuously illuminated and joined with included aligner brackets and joining hardware. See examples below for pattern suggestions. All Arc connectors and housings are fully welded to ensure correct dimensions without light leaks when assembled.

How to Specify

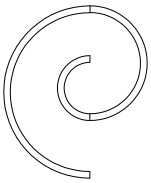
1. Submit your pattern to Day-O-Lite in dimensioned CAD file or submit a fully dimensioned PDF file.
2. If EPC/EMC or Sensors are to be included their location needs to be clearly noted.
3. Day-O-Lite will design your pattern to as close as is nominally possible given standard LED module lengths, including connectors.
4. Day-O-Lite will supply a detailed drawing for approval with final dimensions. All patterns must be approved prior to manufacture.

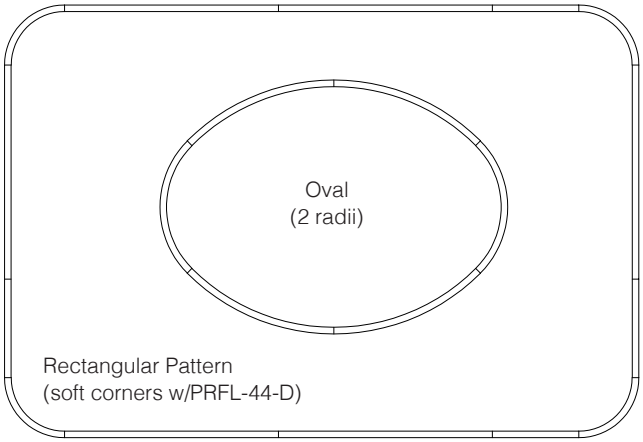
Pattern Examples

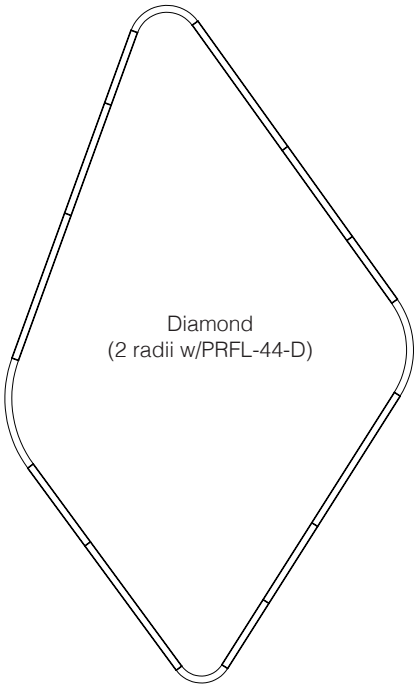
Hooks
(1 radii w/PRFL-44-D)



Spiral
(3 radii)





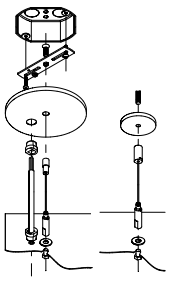


Patterns shown are examples. Day-O-Lite can custum design/build virtually any shape pattern using ARCL and PRFL (linear) product lines. All patterns continuously illuminated.

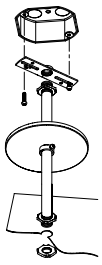
Standard Suspensions

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

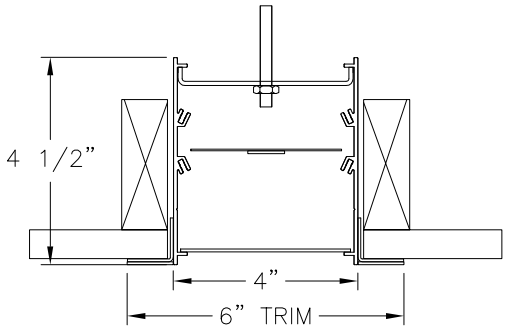


PD = Pendant Stem

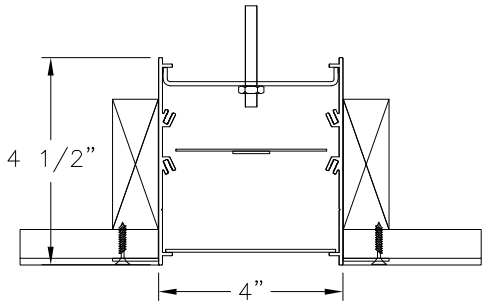
Photometry

ARCL-44-D-DP-40-SO-4
Diffuse Polycarbonate (DP)

Additonal Mounting Options

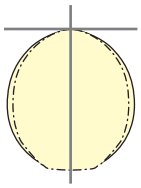


Flange (F)



Trimless (TRL)

Photometry



ARCL-44-D-DP-40-**LO**-4

4000K CCT
WATTS: 20
LUMENS: 2293
LPW: 115

ARCL-44-D-DP-40-**SO**-4

4000K CCT
WATTS: 27
LUMENS: 3058
LPW: 113

ARCL-44-D-DP-40-**HO**-4

4000K CCT
WATTS: 35
LUMENS: 3822
LPW: 109

40000K @ 80CRI, DP 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

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 Diffuse Polycarbonate lens is standard.

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, 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 installation is in dry wall ceiling via 1/4-20 rods (by others). Optional mounting yokes are available.

FINISH: Housing and components finished in baked white enamel.

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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