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.

4 1/2"

2 3/4"

Ordering Guide

Declare. BAA

MODEL	OPTICS	LED[1]	LUMENS[2]	SIZE	MOUNTING[3]	FINISH	OPTIONS
ARCL-24-DI	**DP**						
ARCL-24-DI Direct/Indirect	DP = Diffuse Polycarbonate w/clear acrylic dust covers. (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 = 685/ft Indirect 485/ft Direct (11W/ft, 116LPW) SO = 915/ft Indirect 645/ft Direct (14W/ft, 114LPW) HO = 1130/ft Indirect 800/ft Direct (18W/ft, 110LPW) **CUSTOM** Specify lumen value < HO.	Arc is a 100% customizable product. See page 3 for instrucions for creating SIZE ordering code.	AC = Aircraft Cable PD = Pendant Stem	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.

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).

Other Options

Other sensor and wireless control options
are available. Contact factory for details.

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[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.

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

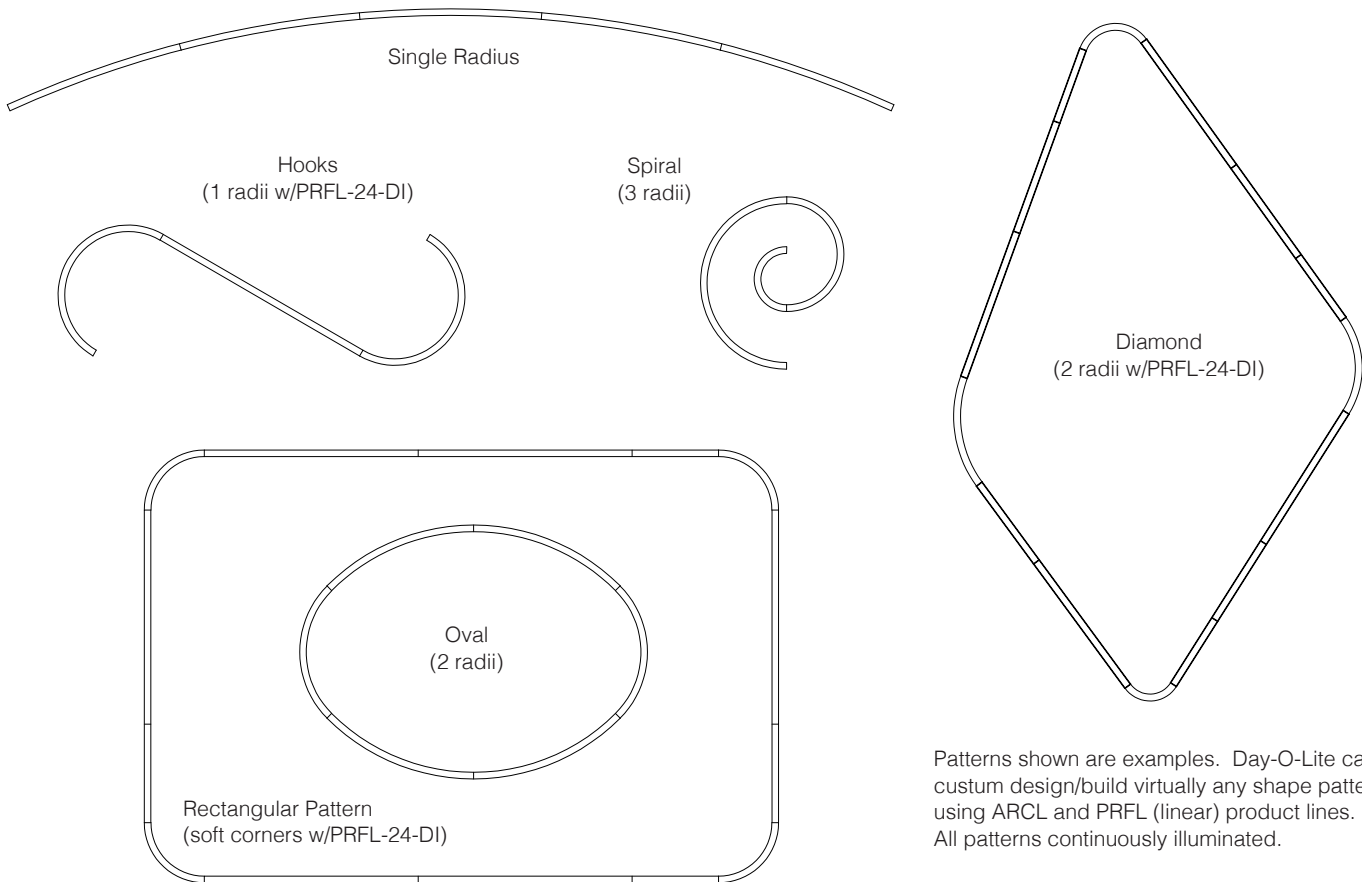Radius (R) in Feet

ChordLength (L) in Feet
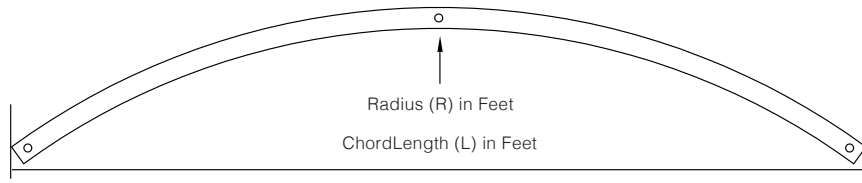
Pattern Guide

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

Single Radius

Hooks
(1 radii w/PRFL-24-DI)

Spiral
(3 radii)

Diamond
(2 radii w/PRFL-24-DI)

Oval
(2 radii)

Rectangular Pattern
(soft corners w/PRFL-24-DI)

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
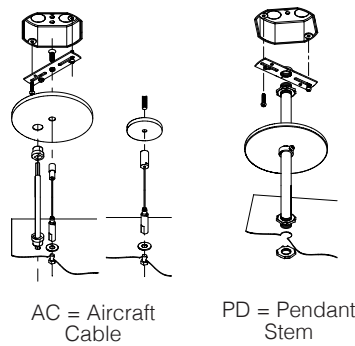
Photometry
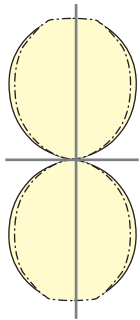
ARCL-24-DI-DP-40-**LO**-4

4000K CCT
WATTS: 40
LUMENS: 4632
LPW: 116
Distribution:
47% Direct
53% Indirect

ARCL-24-DI-DP-40-**SO**-4

4000K CCT
WATTS: 54
LUMENS: 6176
LPW: 114
Distribution:
47% Direct
53% Indirect

ARCL-24-DI-DP-40-**HO**-4

4000K CCT
WATTS: 70
LUMENS: 7720
LPW: 110
Distribution:
47% Direct
53% Indirect

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, w/clear acrylic dust covers indirect.

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 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.

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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