DAY-O-LITE

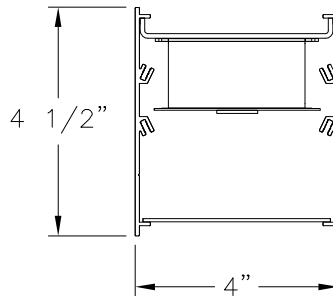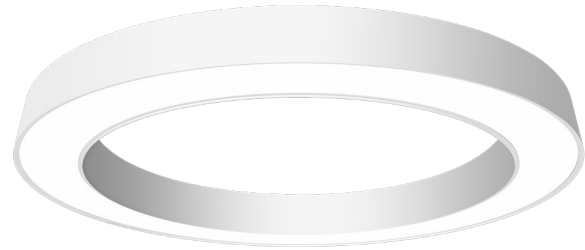## Compass Series | COML-44-DI

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"

4"

Ordering Guide

Declare. BAA Made in USA c ETL us CSA

MODEL	OPTICS	LED[1]	LUMENS[2]	SIZE	MOUNTING[3]	FINISH	OPTIONS
COML-44-DI	**DP**						
COML-44-DI Direct/Indirect	DP = Diffuse Polycarbonate w/clear acrylic dust covers (lay-in). 2 ft, 3 ft, and 4 ft diameters include a one piece lens. All other diameters consist of multiple lenses that match their respective section size and count.	**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** See page 3 for lumens for all diameters. **CUSTOM** Specify lumen value < HO.	2 = 2 ft 3 = 3 ft 4 = 4 ft 5 = 5 ft 6 = 6 ft 8 = 8 ft 10 = 10 ft 12 = 12 ft 16 = 16 ft 20 = 20 ft	AC = Aircraft Cable PD = Pendant Stem ACM = Mono Point (2'-4' only)	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 & OTHER** 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, 3500K, DP lens. Photometry page 3.

[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.

Key

○ Indicates suspension points.

✔ Indicates section breaks.

2', 3' 4' & 5' are single piece housings. 2', 3' & 4' w/single piece lens. 5' and greater include multiple lenses. 6' and up sections are all the same size for easy field assembly.


2' DIA. 3' DIA. 4' DIA. 5' DIA. 6' DIA.

8' DIA. 10' DIA.

12' DIA.
16' DIA.
20' DIA.
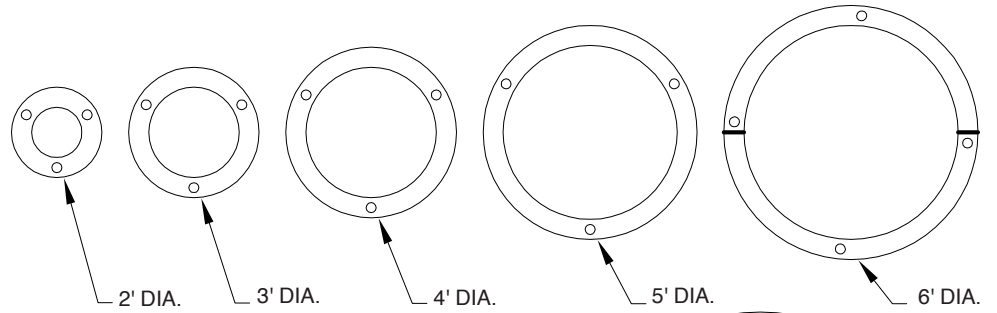
Lumens

DIA'	LO LUMENS	SO LUMENS	HO LUMENS
2	5,693	7,590	9487
3	9,405	12,540	15,675
4	13,118	17,490	21,863
5	17,820	23,760	29,700
6	21,285	28,380	35,475
8	27,473	36,630	45,788
10	35,640	47,520	59,400
12	43,065	57,420	71,775
16	58,350	77,800	97,250
20	73,260	97,680	121,100
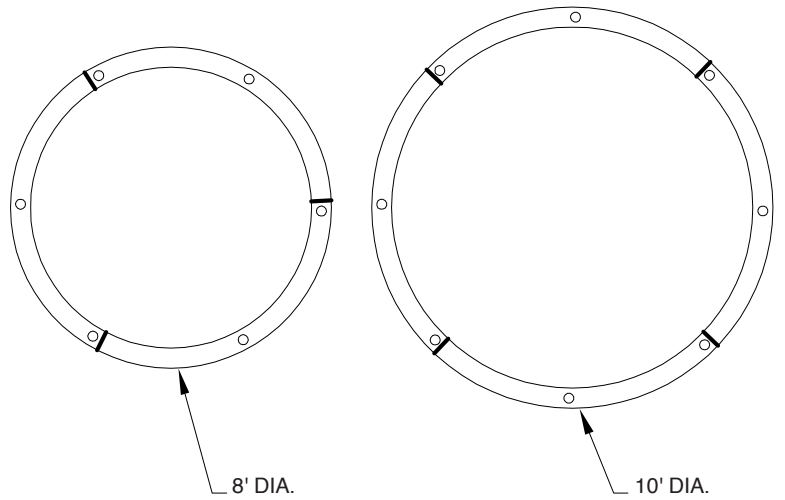
Electrical

DIA'	LO W	LO LPW	SO W	SO LPW	HO W	HO LPW
2	52	109	70	108	88	108
3	86	109	115	109	145	108
4	120	109	160	109	202	108
5	162	110	216	110	272	109
6	193	110	257	110	324	109
8	250	110	334	110	421	109
10	323	110	431	110	543	109
12	391	110	522	110	658	109
16	532	110	709	110	893	109
20	668	110	890	110	1121	108
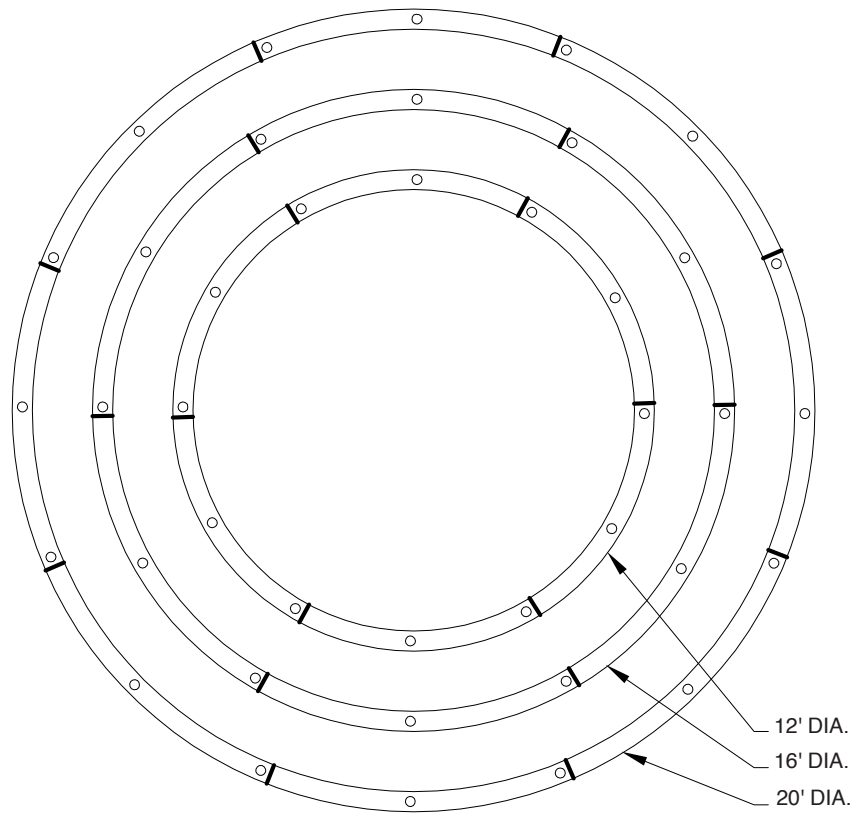
Mechanical

DIA'	DIA"	SEC. CNT.	LENS CNT.	SEC. LGTH.	MTG. PTS.
2	23"	1	1	23"	3
3	35"	1	1	35"	3
4	47"	1	1	47"	3
5	60"	1	2	60"	3
6	72"	2	2	72"	4
8	96"	3	3	83 1/8"	6
10	120"	4	4	84 7/8"	8
12	144"	6	6	72"	12
16	192"	6	6	96"	12
20	240"	8	8	91 7/8"	16

3500K @ 80CRI, 4', DP 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

Suspensions

Standard suspension options include adjustable self-locking aircraft cables (AC), a 3-into-1 monopoint (ACM) 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.

S
Surface
Mount

ACM
Monopoint
48" O.A.
(2', 3', 4')

AC
Aircraft Cable
48" Length

PD
Pendant Stem
24" Length
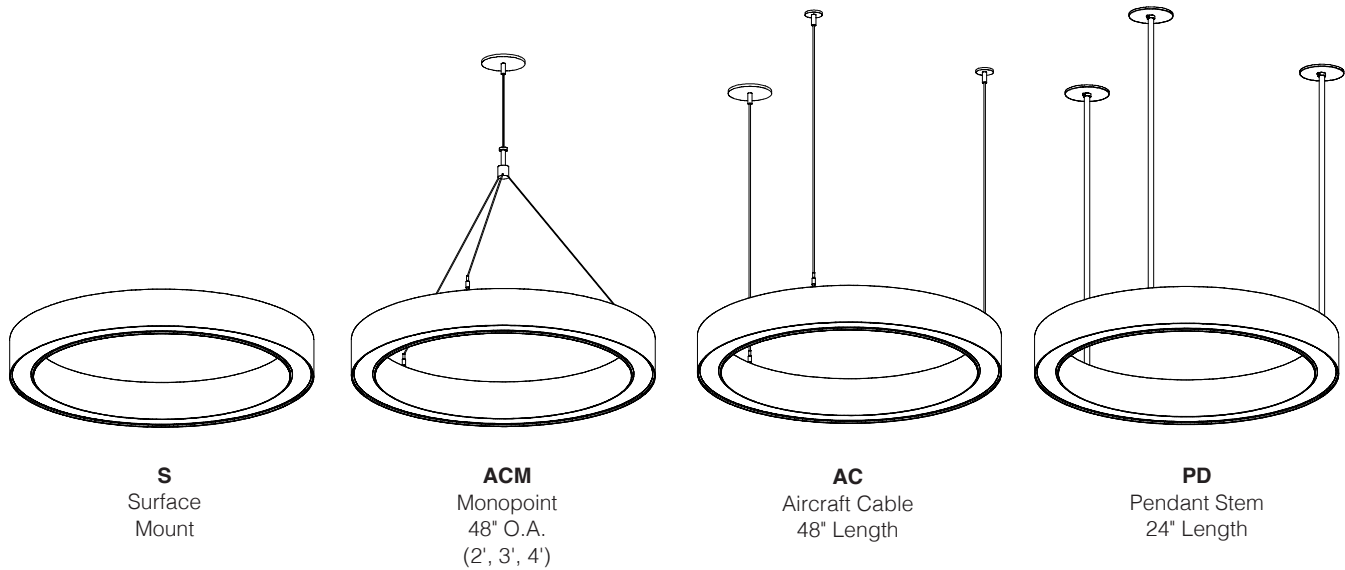
Consult factory for longer ACM, AC and PD suspension lengths.

See page 4 for number of AC & PD suspension points per diameter..

All feed canopies 5" dia., all non-feed canopies 2" dia.

All canopies white unless requested otherwise.

Mounting

4 1/2"

4"

AC, ACM
Feed Canopy 5"

4 1/2"

4"

AC
Non-Feed Canopy 2"

4 1/2"

4"

PD
5" Canopies
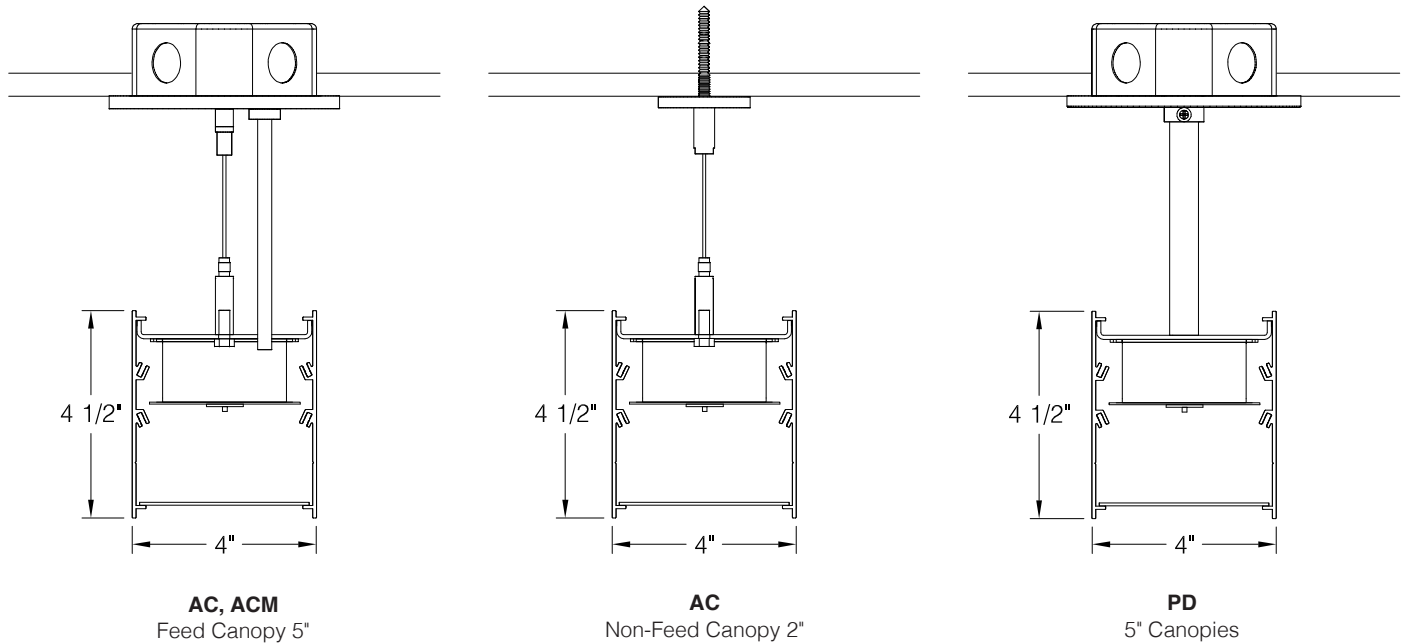
AC-PF = Replacement Power Feed Kit w/5" canopy.
AC-NF = Replacement Non/Feed Kit w/2" canopy.
Consult factory for custom lengths and either 5 or 6 wire power feeds.

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, 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, rigid pendant stems and 3-into-1 monopoint (to 4' dia only). 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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