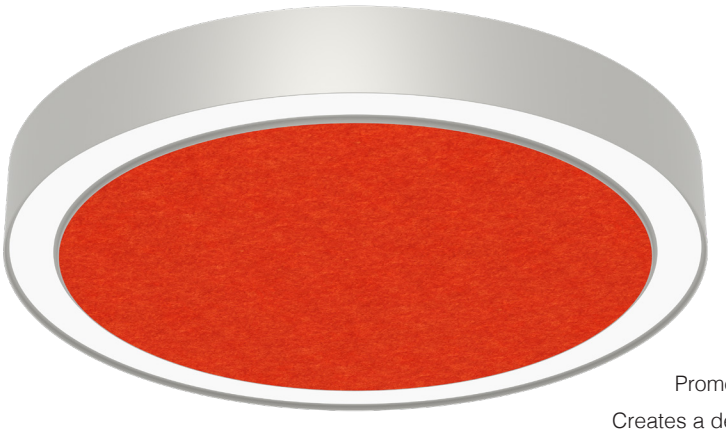
DAY-O-LITE

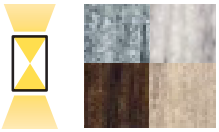
Compass Series | COML-24-DI Acoustic

Date	Notes
Project	
Type Qty	



Acoustic Options
and details page 5.

30 unique colors & 4 wood grain finishes.
See page 5 or **click here**.



Features

Combines noise control and illumination in a simple solution.

Promotes an inviting space for personal wellbeing, focus and concentration.

Creates a decorative floating ceiling in otherwise open-ceiling interior applications.

Boosts human performance by reducing distracting noise levels and reverberations.

Improves privacy during sensitive communcation by reducing echoes and reflected sound.

A **Declare** Red List Approved product.

Ordering Guide

MODEL	OPTICS	LED[1]	LUMENS[2]	SIZE	MOUNTING[3]	FINISH	OPTIONS
COML-24-DI	**DP**						
COML-24-DI Direct/Indirect Acoustic	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 80CRI 30 = 3000K 80CRI 35 = 3500K 80CRI 40 = 4000K 80CRI 50 = 5000K 80CRI **BIOS SkyBlue** Circadian solutions **TUNABLE 2**-Channel 2700K-6500K Fixed CCT Range 2DIM10 = for 0-10V 2DMX = for DMX 2ESN = for Philips 2CAS = for Casambi 2LUT = for Lutron **TUNABLE 3**-Channel 1800K-6500K 92 CRI Selectable CCT Range 3DIM10 = for 0-10V **DIM-TO-WARM** DTW = Dim-to-Warm (2700K-6500K) 0-10V 3DTW = Dim-to-Warm (1800K-6500K) 0-10V **RGB+WHITE** RGB = RGB RGBW = RGBW RGBWW = RGBWW (Specify "W" CCT	**STANDARD** See page 3 for lumens for all diameters. **CUSTOM** Specify lumen value < HO.	2 = 2 ft 3 = 3 ft 4 = 4 ft	AC = Aircraft Cable PD = Pendant Stem ACM = Mono Point (2'-4' only)	**FIXTURE HOUSING** W = White CC = Custom Color AMW = Anti Microbial White	**ACOUSTIC COLOR OPTIONS** See page 5 or **click here**. **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[1] **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

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

[2]Standard lumens for all diameters page 3. Custom lumens may be specified at an level below HO.

[3]See page 4 for suspension 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[1] 2-Channel
2700K-6500K 80 CRI
Fixed CCT Range

2DIM10 = 0-10V
2DMX = DMX 80
2CAS = Casambi Wireless
2ESN = Philips EasySense
2LUT = Lutron (LD2)

92DIM10 = 0-10V 90 CRI
92DMX = DMX 90 CRI
92CAS = Casambi Wireless 90 CRI
92ESN = Philips EasySense 90 CRI
92LUT = Lutron (LD2) 90 CRI

Tunable[1] 3-Channel
1800K-6500K 92 CRI
Selectable range CCT (factory set)

3DIM10 = 0-10V Dimming

Dim-to-Warm[2]
DTW = 6500K-2700K 80 CRI
9DTW = 6500K-2700K 90 CRI

3DTW = 6500K-1800K 92 CRI
Selectable range CCT (factory set).
To specify write in the desired range; eg. 65/18 = 6500K-1800K, or 57/22 = 5700K-2200K.

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
ADV = Advanced Color 125mm increment RGB or RGBW pixel control

Single Color
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 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)
AVN = Avi-On Node
BNV = BubblyNet Occ/Day
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

Sensors and control options to be commissioned wirelessly in the field by qualified controls personnel with applicable apps (by others).

Wireless Control

CAS = Casambi

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-Channel has a fixed range of 2700K-6500K. 3-Channel has a maximum range of 1800K-6500K, but other sub-ranges may be specified. 3-Channel Tunable White has a third diode to more closely approximate the black body curve in the mid CCT ranges. Contact Day-O-Lite for details.

[2]Dim-to-Warm mimics incandescent dimming by warming the CCT from 6500K-2700K (2DTW) or 6500K-1800K (3DTW) as light levels are dimmed.

[3]All RGB, RGBW, RGBWW and ADV options for **DMX** control (by others). 80 CRI standard. All fixtures with **DMX** drivers include **DMX** cabling prewired to the driver/s, terminated with an RJ45 mail adapter ease of installation.

Diameters

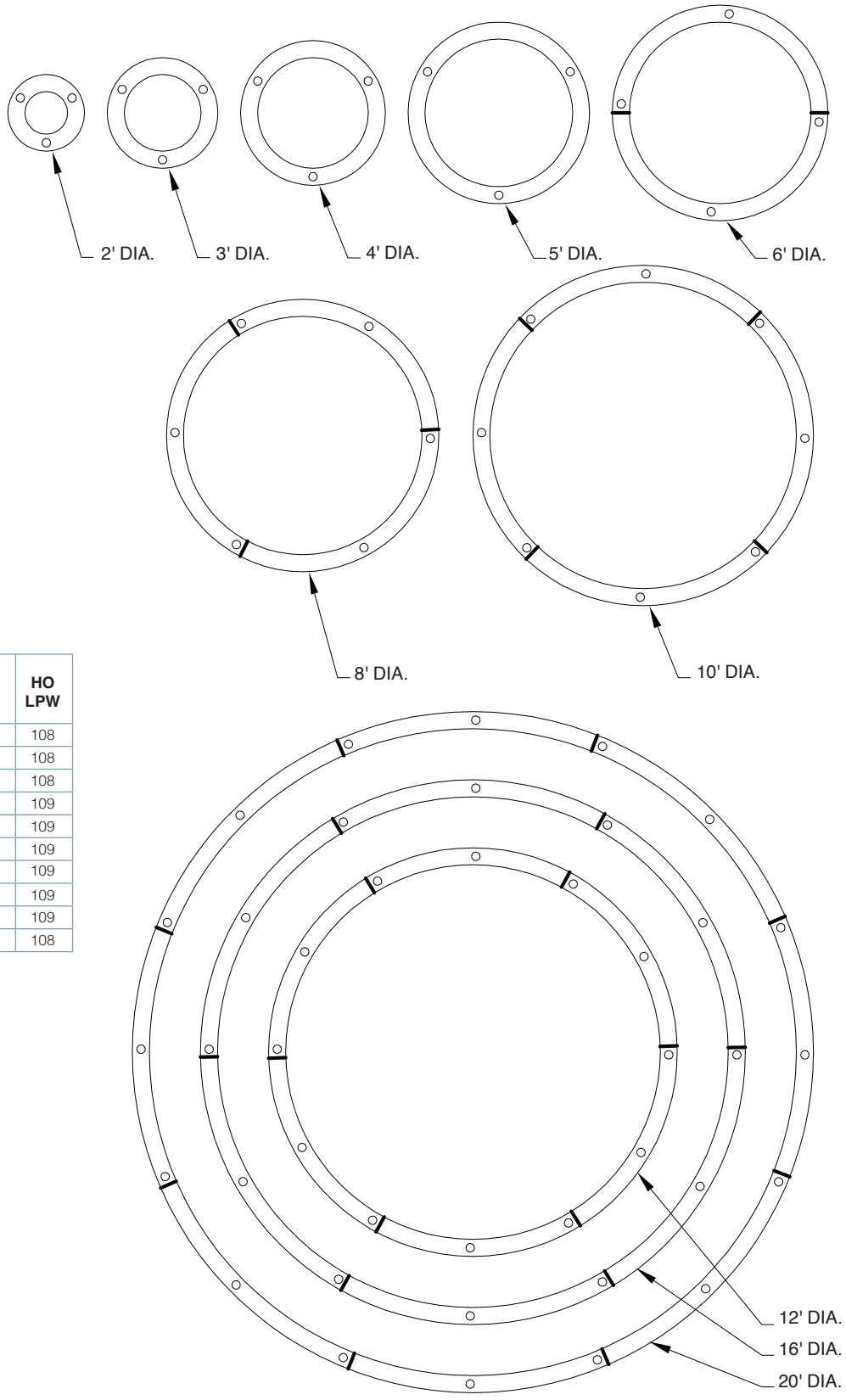
Compass may be ordered in diameters of 2', 3' & 4' consisting of a single fully welded assembly with a one piece lens. Larger diameters consist of equally sized sections joined in the field and ship with their own lens. Suspensions (page 5) include 3-into-1 monopoint, aircraft cable and stems.

Key

○ Indicates suspension points.

⬥ Indicates section breaks.

2', 3' 4' & 5' are single piece housings. 2', 3' & 4' w/single piece lens.



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

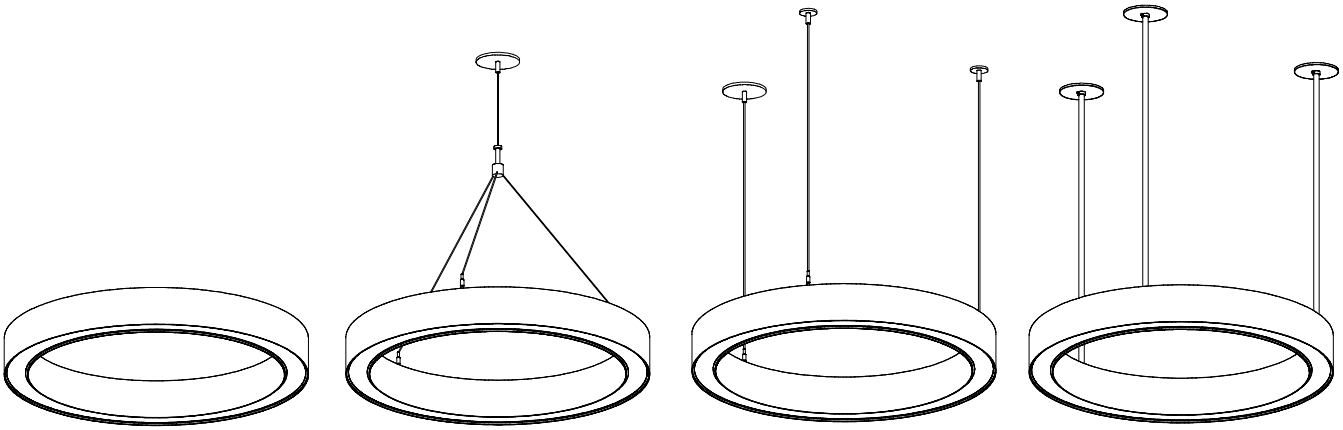
Mechanical

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

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

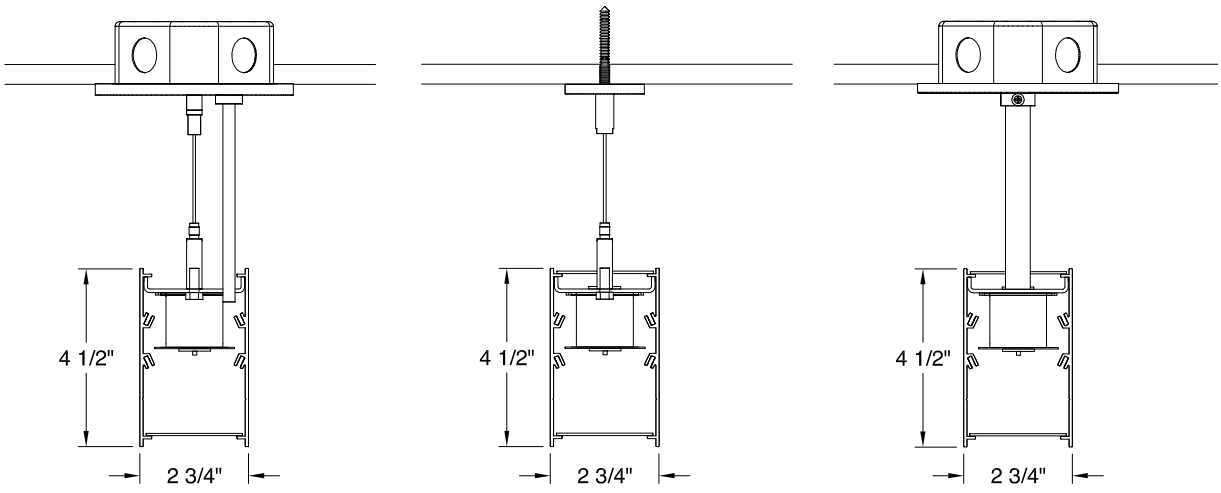
Consult factory for longer ACM, AC and PD suspension lengths.

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



AC, ACM
Feed Canopy 5"

AC
Non-Feed Canopy 2"

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.

ACOUSTIC COLOR GUIDE

Smoke[1], Pewter[2] and[3] Slate are standard colors; consult factory for lead-times on other colors including wood grains. Acoustic panels ship affixed to luminaires and are held in and double-sided tape to prevent bowing. Onsite removal may result in damage and void warranty.

Fixtures must be stored and installed in an interior dry location at a minimum of 52F. Class A Fire Rating, 1.6 Noise Reduction Coefficient (NRC) Moisture and Mold Resistant, UV fade resistant, 100% recyclable.

TR = Tar

SL = Slate[1]

PW = Pewter[2]

ST = Storm

GR = Greige

FO = Fossil

PB = Pebble

SM = Smoke[3]

IV = Ivory

LI = Linen

PA = Parchment

FR = Frost

GS = Grass

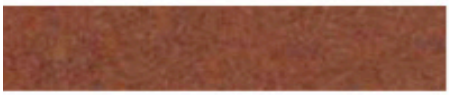
OV = Olive

MK = Malachite

MD = Meadow

SS = Sunshine

MD = Mandarin



BR = Brick

OC = Ochre

SF = Saffron

ED = Elderberry

BK = Bark

EC = Ecru

CA = Cadet

TW = Twilight

MI = Midnight

CH = Chambray

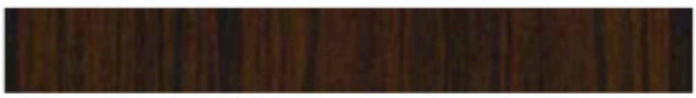
SK = Sky

CO = Cobalt

EU = Eucalyptus

IB = Ironbark

SG = Spotted Gum



MB = Merabau

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 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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