DAY-O-LITE

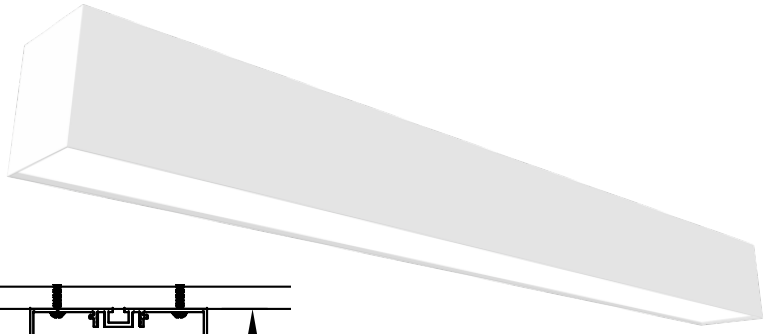
Profile Series | PRFL-44AS-D Hall Lyter

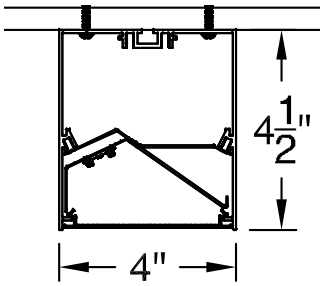
Date	Notes
Project	
Type Qty	

Features

PRL-44AS Hall Lyter features an assymetrical distribution designed to light hallways and corridors to an average of 50fc from one side only.

- Adjustable LED Tray for precise length adjustment.
- LED optimized optics for smooth, efficient illumination.
- Individual fixtures, continuous rows or custom patterns.
- Programmable driver for custom lumen packages.
- 0-10V dimming to 1% standard. Dim-to-off available.
- Sensor Ready for wireless Smart Lighting Solutions.
- 80/90CRI, Tunable White, RGBW & RGBWW.
- Bios SkyBlue™ circadian solutions available.
- Declare Red List Approved.
- Chicago Plenum Rated.[7]
- Damp location suitable.





Surface Mount Shown

Asymmetric

Ordering Guide

Declare. BAA

MODEL	OPTICS	LED[1]	LUMENS[2]	SIZE	MOUNTING[3]	FINISH	OPTIONS
PRFL-44AS-D	**AS**						
PRFL-44AS-D Asymmetric	AS = Asymmetrical Lens (snap-in)	**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** (DMX) RGB = RGB RGBW = RGBW RGBWW = RGBWW	**STANDARD** LO = 630/ft (5W/ft, 126LPW) SO = 836/ft (7W/ft, 124LPW) HO = 1025/ft (9W/ft, 121LPW) **CUSTOM** Specify lumen value < 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. 48 = 48 ft) P = Pattern[6]	AC = Aircraft Cable PD = Pendant Stem S = Surface	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** FWH = Flexible Wiring Harness **CHICAGO PLENUM**[7] CP = Chicago Plenum housing

[1]**All 90 CRI, BIOS, Tunable White, DTW,** and **RGB/W** options and Ordering Codes page 2.
[2]Lumens at 80CRI, 3500. Photometry page 5/6. Custom lumens may be specified below HO.
[3]See page 6 for mounting detail.
[4]All Sensor & Control options page 2.
[5]EPC6 is standard unless otherwise specified. EPC for use with Static White only.
BAA letter of compliance available at www.dayolite.com.
[6]For Patterns please provide a dimensioned drawing. Day-O-Lite will provide factory drawings to finished dimensons for approval.
[7]Order must specify option **CP** (Chicago Plenum) for approved housing.

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.

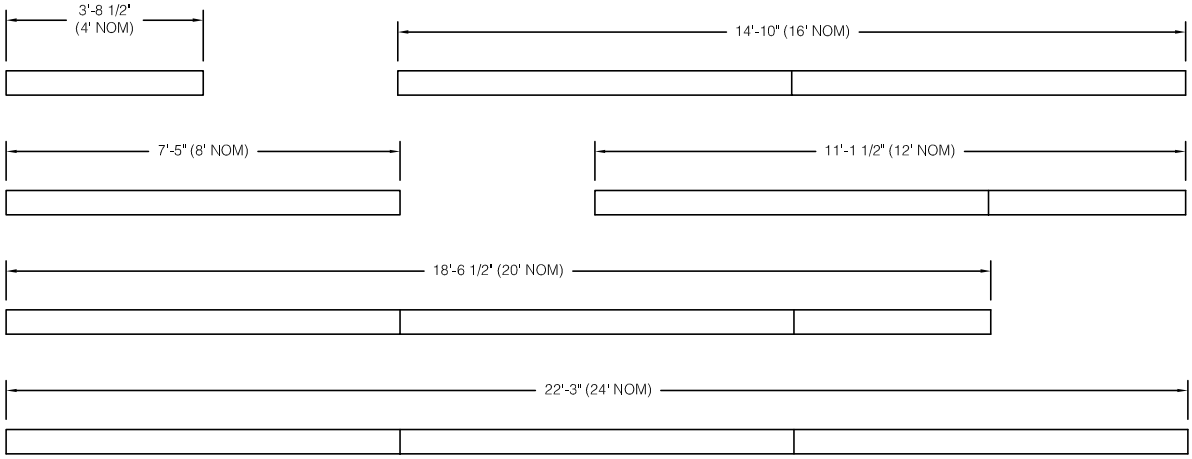
[3]All RGB, RGBW, RGBWW and ADV options for **DMX** control (by others). 80 CRI standard. All fixtures with **DMX** drivers include **DMX** cabling prewired to the driver/s, terminated with an RJ45 mail adapter ease of installation.

Individual Fixtures & Continuous Rows

NOMINAL LENGTH	ACTUAL LENGTH
4'	3' 8-1/2"
8'	7' 5"
12'	11' 1-1/2"
16'	14' 10"
20,	18' 6-1/2"
20'	22' 3"

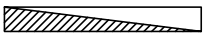
Individual fixtures and rows are continuously illuminated and joined with included aligner brackets and hardware. Fixtures up to 8' nominal and continuous rows up to 24' nominal are dimensioned as shown below.

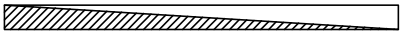
Continuous rows longer than 8' and patterns, including EPC/EMC and sensor locations must be approved prior to manufacturing. See following page for specifying patterns.



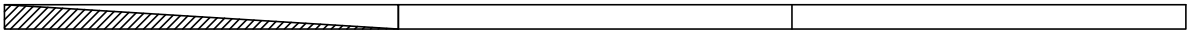
Emergency & Sensor Locations

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.

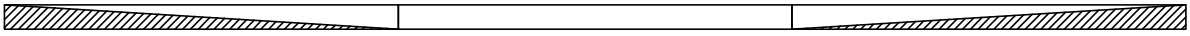
4' Individual 

8' Individual 

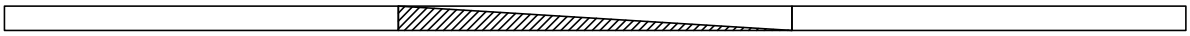
For continuous rows longer than 8' one EPC/EMC will be located in the feed section (end-left) of the row as shown below.

24' Row (3x8') 

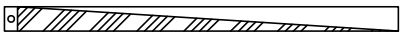
If two EPC/EMC's are required their default locations will be in the feed section (end-left) and last section (end-right) as below.

24' Row (3x8') 

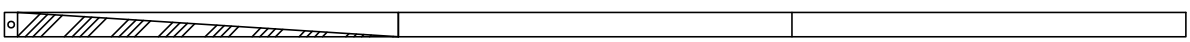
Custom placement of one or more EPC/EMC's must be clearly identified during ordering.

24' Row (3x8') 

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

8' Individual 

SENSORS for rows by default 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.

24' Row (3x8') 

Pattern Guide

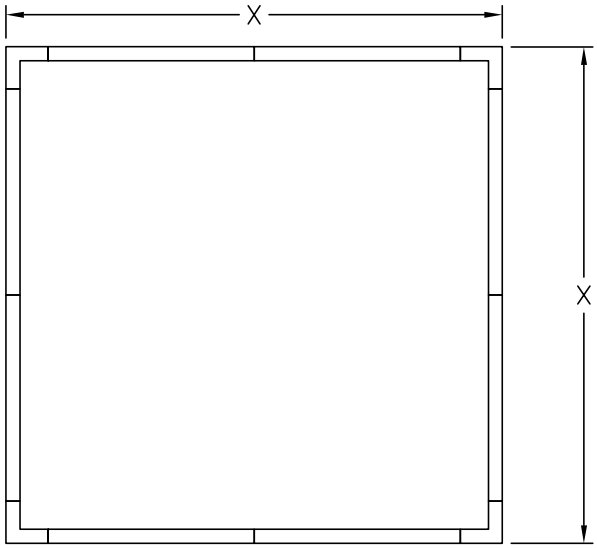
Profile may be specified in patterns of virtually any configuration. All patterns and corners are continuously illuminated and joined with included aligner brackets and joining hardware. See examples below for suggestions with actual and nominal dimensions. Day-O-Lite's custom manufacturing capabilities allow the specification of custom angled connectors to make non-square patterns possible. (See ILX example below).

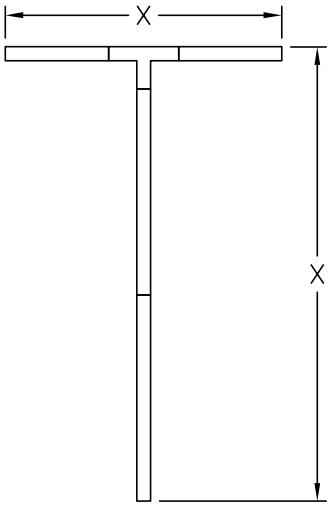
All corners and connectors are fully welded to ensure correct dimensions and "square" joinery when assembled.

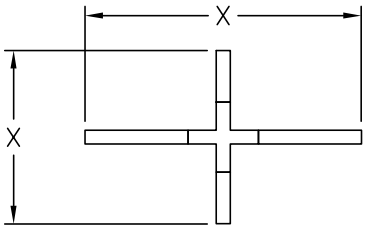
How to Specify

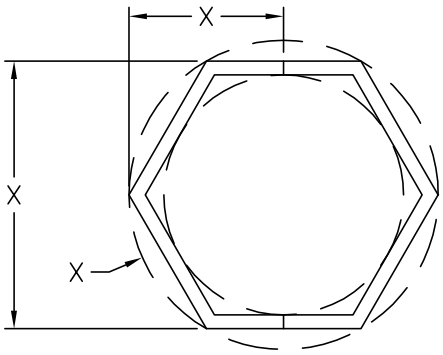
1. Submit your pattern to Day-O-Lite in dimensioned CAD file or submit a fully dimensioned PDF file.
2. If EPC/EMC or Sensors are to be included their location needs to be clearly noted.
3. Day-O-Lite will design your pattern to as close as is nominally possible given standard LED module lengths, including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

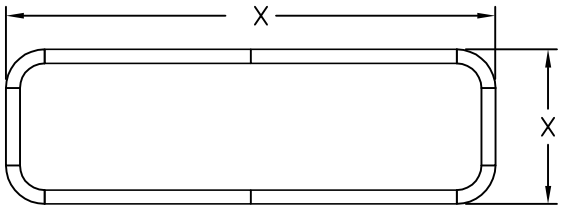
Pattern Examples



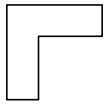




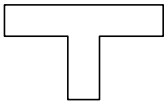




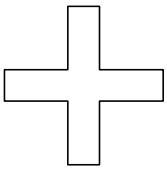
Illuminated Connectors



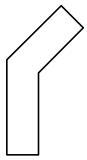
ILC2 = 90° Corner



ILC3 = 90° Tee



ILC4 = 90° Cross



ILCX = X° Custom

ILCR = Custom Radius

Photometrics

Diagrams below show floor level foot-candles at standard reflectances (80/50/20). Fixtures surface mounted to the ceiling in one row of an open-ended hallway in Low Output (LO) and Standard Output (SO) Lumens.

IES file: PRFL-44AS-D_IES.zip available at www.dayolite.com.

32' x 6' x 8' Hall
One Side - SO

35.0	41.0	36.0
42.0	49.0	44.0
46.0	54.0	49.0
49.0	58.0	52.0
51.0	59.0	54.0
52.0	61.0	55.0
52.0	61.0	56.0
52.0	62.0	56.0
52.2	61.4	55.8
51.7	60.9	55.2
50.8	60.0	54.0
49.0	58.0	53.0
47.0	55.0	49.0
42.0	50.0	45.0
36.0	42.0	38.0

32' x 8' x 8' Hall
One Side - LO

36.0	39.0	36.0	30.0
41.0	44.0	41.0	34.0
46.0	49.9	45.0	37.0
48.0	52.0	48.0	40.0
50.0	53.0	50.0	41.0
51.0	55.0	51.0	42.0
52.0	55.0	52.0	43.0
52.0	56.0	52.0	43.0
52.0	56.0	52.0	43.0
52.0	55.0	51.0	43.0
51.0	54.0	50.0	42.0
49.0	52.0	49.0	40.0
46.0	50.0	46.0	38.0
42.0	45.0	41.0	34.0
36.0	39.0	36.0	30.0

32' x 8' x 8' Hall
One Side - SO

48.0	52.0	48.0	39.0
55.0	58.0	54.0	45.0
61.0	65.0	60.0	49.0
64.0	69.0	64.0	53.0
66.0	71.0	66.0	55.0
68.0	73.0	68.0	56.0
69.0	74.0	69.0	57.0
69.0	74.0	69.0	58.0
69.0	74.0	69.0	58.0
69.0	74.0	68.0	57.0
67.0	72.0	67.0	56.0
65.0	70.0	65.0	54.0
62.0	66.0	61.0	50.0
56.0	60.0	55.0	46.0
48.0	52.0	48.0	39.0

Photometrics

Diagrams below show floor level foot-candles at standard reflectances (80/50/20). Fixtures surface mounted to the ceiling in one row of an open-ended hallway in Low Output (LO) and Standard Output (SO) Lumens.

IES file: PRFL-44AS-D_IES.zip available at www.dayolite.com.

Photometrics: 35000K @ 80CRI, AS 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

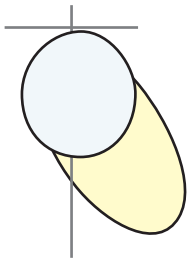
32' x 10' x 10' Hall
One Side - LO

25.0	30.0	30.0	25.0	19.0
30.0	35.0	35.0	29.0	22.0
33.0	39.0	38.0	32.0	25.0
35.8	41.0	41.0	34.0	27.0
36.0	43.0	42.0	36.0	28.0
37.0	44.0	44.0	37.0	29.0
38.0	44.0	44.0	37.0	29.0
39.0	45.0	44.0	38.0	29.0
38.0	45.0	44.0	38.0	29.0
38.0	44.0	44.0	38.0	29.0
37.0	44.0	44.0	38.0	28.0
36.0	43.0	43.0	36.0	28.0
33.0	39.0	38.0	32.0	25.0
30.0	35.0	35.0	30.0	22.0
26.8	30.0	30.0	26.0	20.0

32' x 10' x 10' Hall
One Side - SO

34.0	40.0	40.0	33.0	26.0
40.0	47.0	46.0	39.0	30.0
44.0	51.0	51.0	43.0	33.0
46.0	55.0	54.0	46.0	35.0
48.0	57.0	56.0	48.0	37.0
49.0	58.0	58.0	49.0	38.0
50.0	59.0	59.0	50.0	39.0
50.0	60.0	59.0	50.0	39.0
50.0	60.0	59.0	50.0	39.0
50.0	59.0	59.0	50.0	39.0
50.0	59.0	58.0	50.0	38.0
49.0	57.0	57.0	48.0	37.0
47.0	55.0	55.0	46.0	36.0
44.0	51.0	51.0	43.0	33.0
40.0	47.0	46.0	39.0	30.0

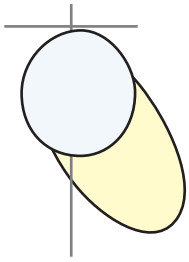
LO = Low Output



PRFL-44AS-D-**FLA**-40-**LO**-4

4000K CCT
WATTS: 20
LUMENS: 2520
LPW: 126

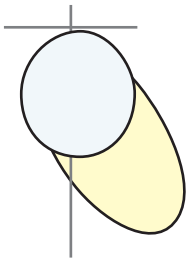
SO = Standard Output



PRFL-44AS-D-**FLA**-40-**SO**-4

4000K CCT
WATTS: 27
LUMENS: 3344
LPW: 124

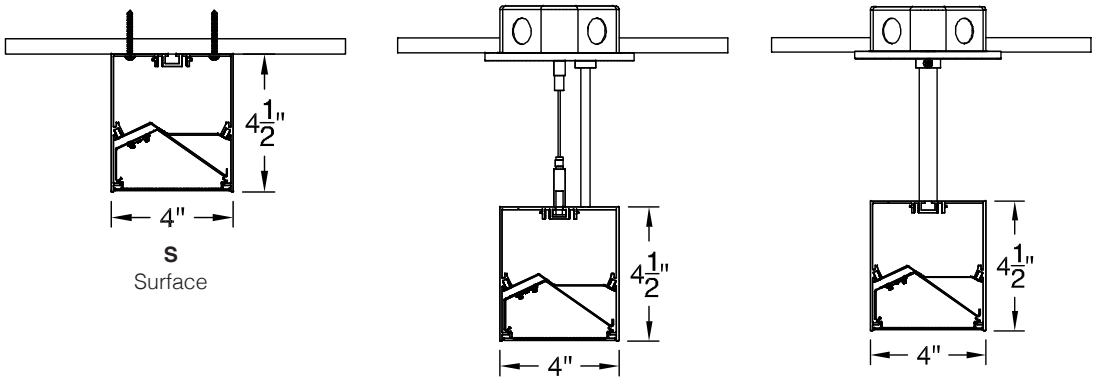
HO = High Output



PRFL-44AS-D-**FLA**-40-**HO**-4

4000K CCT
WATTS: 34
LUMENS: 4100
LPW: 121

Mounting



S
Surface

AC
Aircraft Cable

PD
Pendant Stem

Specifications

CONSTRUCTION: Extruded aluminum side housing. 20 gauge cold rolled steel top and internal components.

REFLECTOR: Highly reflective baked white enamel with pre-finished reflective LED tray.

OPTICS: Flush opal acrylic lens is standard.

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, 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 mounting is in suspended grid ceilings.

FINISH: Housing and components finished in baked white enamel.

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, BAA compliant, Declare Red List Approved, Chicago Plenum Approved.

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