DAY·O·LITE

Profile Series | PRFL-24-I-WM

DLC QPL LISTED

Date	Notes
Project	
Type	Qty	

1/4"
[6.586mm]

4 1/2"
[114.300mm]

2 3/4"
[69.850mm]

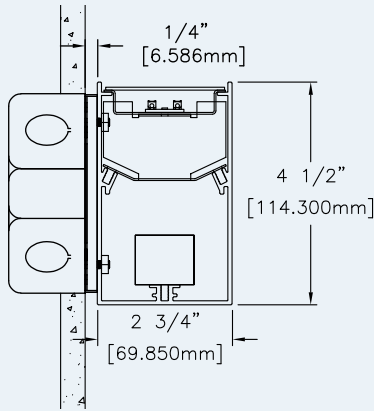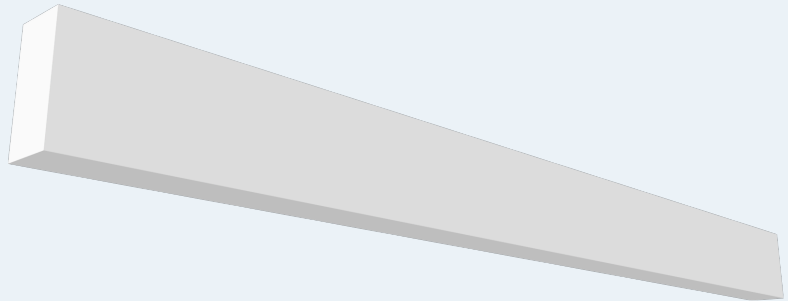Indirect

Clear Acrylic (CA) shown.
See page 3 for other
lens details.

Features

Extruded aluminum housing w/welded end-plates.

LED optimized optics in multiple configurations from end-to-end.

Indirect performance in an architecturally clean wall mount luminaire.

High efficiency programmable driver for custom lumen packages. 0-10V dimming to 1% standard.

High efficacy LEDs in 80 or 90 CRI; two or three channel tunable white; five channel tunable color.

Ordering Guide

MODEL	OPTICS	CCT	LUMENS[2]	LENGTH[3]	MOUNTING[4]	FINISH	OPTIONS[5]
PRFL-24-I							
Profile 24 Indirect	CA = Clear Acrylic (Standard)	27 = 2700K 80CRI	**STD LUMENS**	2 = 2 ft	WM = Wall Mount	W = White	**DIMMING DRIVERS**
	FL = Flush Opal Acrylic (snap-in)	30 = 3000K 80CRI	LO = 675/ft (5W/ft, 123LPW)	3 = 3 ft		CC = Custom Color	DIM10 = 0-10V (1.0%)
	PL = 1" Pop Opal Acrylic (snap-in)	35 = 3500K 80CRI	SO = 900/ft (7W/ft, 129LPW)	4 = 4 ft		AMW = Anti-Microbial White	DIMSR = 0-10V (5.0%) Sensor Ready
	SI = Satin Ice Acrylic (lay-in)	40 = 4000K 80CRI	HO = 1100 (9W/ft, 122LPW)	5 = 5 ft			DIMST = Step Dimming (40%/100%)
	AS = Asymmetric (lay-in)	50 = 5000K 80CRI		6 = 6 ft			DALI = DALI (5.0%)
	CM = Collimating (lay-in)	For 90 CRI add "9" prefix. Ex: 940 = 4000K @ 90 CRI	**DLC LUMENS**	7 = 7 ft			**LUTRON™ DIMMING DRIVERS**
	BW = Bat Wing (lay-in)		30D = 30K/850/ft, (7W/ft, 121LPW)	8 = 8 ft			LDE1 = Hi-Lume™ 1%-H EcoSystem™
		TUNABLE WHITE[1] (2-Channel)	35D = 35K/880/ft, (7W/ft, 125LPW)	For other enter row length (e.g. 48 = 48 ft)			LDE5 = 5-Series 5% EcoSystem™
		2DIM10 = for 0-10V	40D = 40K/900/ft, (7W.ft, 128LPW)				L3DAE = Hi-Lume™ 1% EcoSystem™
		2DMX = for DMX					L3DA3W = Hi-Lume™ 1% 3-Wire
		2DLM = for DLM	Consult factory for custom lumen packages.				LTEA2W = Hi-Lume™ 1% 2-Wire FFC
		TUNABLE WHITE[1] (3-Channel)					**SENSORS & CONTROLS**
		3DMX = for DMX	All values nominal.				ESN = Philips™ EasySense
		3DML = for DLM					DAY = Daylight Harvesting
		TUNABLE COLOR[1] (Lumenetix araya5)					OCC = Occupancy Sensor
							LVC = 2-Channel LV Controler
		LX10 = for 0-10V					**EMERGENCY**
		LXDX = for DMX					EPC4 = (4W) 480 Delivered Lumens
		LXDL = for DLM					EPC7 = (7W) 840 Delivered Lumens
		LXDA = for DALI					EPC10 = (10) 1200 Delivered Lumens
		LXLT = for EcoSystem					EPC12 = (12W) 1440 Delivered Lumens
							GTD = Generator Transfer Device
		For RGB and RGB/W options please consult factory.					EMC = Emergency Circuit

[1]Tunable white, tunable color options detailed on page 4.

[2]Delivered Lumens are Standard Output (SO) and Low Output (LO) at 80+CRI 4000K CCT. Use the following multiplier to estimate delivered lumens at other CCTs: 2700K = 0.94, 3000K = 0.96, 3500K = 0.98, 5000K = 1.02. All values nominal. See page 3 for photometry for other lens options.

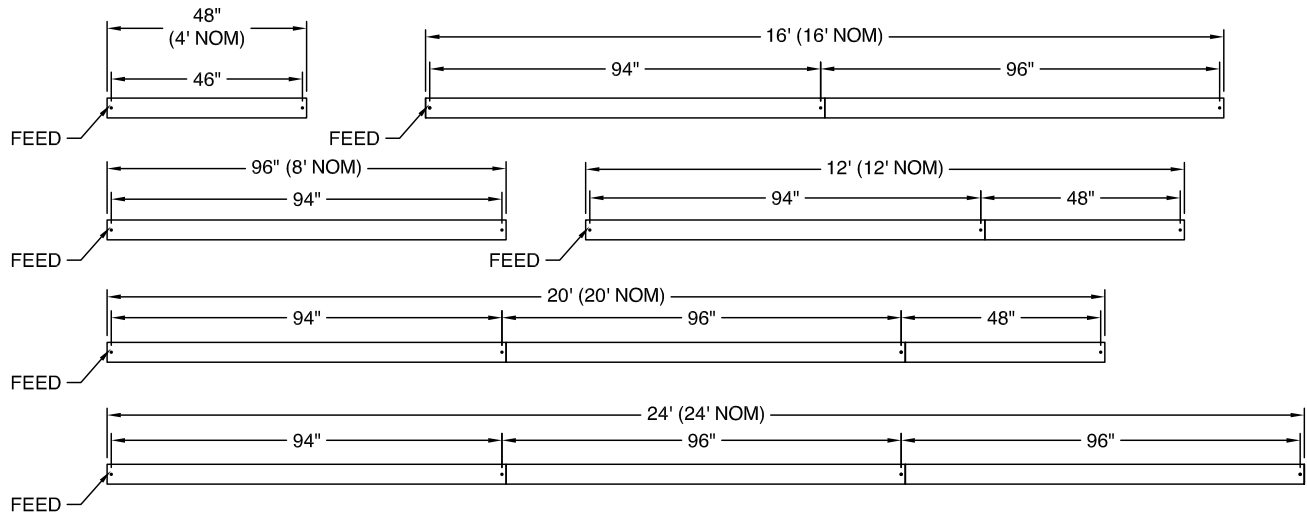[3]See page 2 for actual fixture lengths and mounting locations.

Individual Fixtures & Continuous Rows

NOMINAL LENGTH	ACTUAL LENGTH	WALL BRKTS.	WALL O.C. 1	WALL O.C. 2	WALL O.C. 3
4'	48"	2	46"		
6'	72"	2	70"		
8'	96"	2	94"		
12'	144"	3	94"	48"	
16'	192"	3	94"	96"	48"
20'	240"	4	94"	96"	48"
24'	288"	4	94"	96"	96"

Individual fixtures and rows are continuously illuminated and joined with included aligner brackets and hardware. Power feed locations and mounting locations are shown below.

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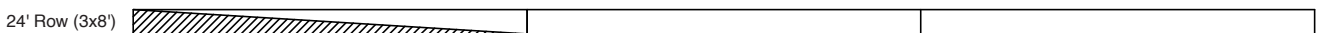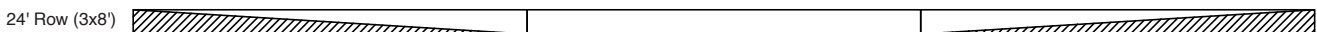

Emergency & Sensor Locations

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 overide device.

4' Individual

8' Individual

For individual fixtures to 8' EPC/EMC will power entire fixture.

24' Row (3x8')

For continuous rows longer than 8' one EPC/EMC will be located in the feed section (end-left) of the row as shown below.
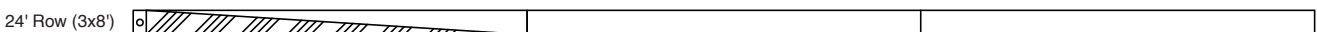
24' Row (3x8')

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')

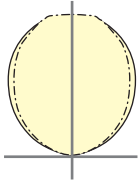Custom placement of one or more EPC/EMC's must be clearly identified during ordering.

8' Individual

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

24' Row (3x8')

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.
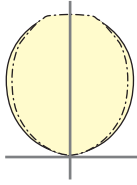
Photometry

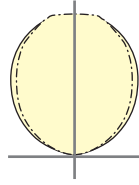PRFL-24-I-CA-40-SO-4
Clear Dust Cove (CA)

PRFL-24-I-SI-40-SO-4
Satin Ice Lens (SI)

PRFL-24-I-FL-40-SO-4
Flush Lens (FL)

PRFL-24-I-PL-40-SO-4-WM
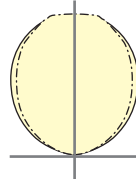Pop Lens (PL)

4000K CCT
WATTS: 28
LUMENS: 3608
LPW: 129
Distribution:
100% Indirect

4000K CCT
WATTS: 28
LUMENS: 3258
LPW: 116
Distribution:
100% Indirect

4000K CCT
WATTS: 28
LUMENS: 3010
LPW: 107
Distribution:
100% Indirect

4000K CCT
WATTS: 28
LUMENS: Consult Factory
LPW: Consult Factory
Distribution:
100% Indirect

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 Clear acrylic (CA) dust covers are standard. LED optimized Satin Ice (SI), opal acrylic flush (FL) and opal acrylic Pop (PL) lenses optional. Asymmetric (AS), Collimating and (BW) Bat Wing (BW) lenses also available.

LED LED modules in 30/35/40 & 50K CCT, 80/90CRI. Lumen maintenance minimum L_{70}= 50,000 hours. 3 SDCM color consistency.

DRIVER Pre-wired Class 2 AOC electronic driver, 120/277V input, PF > 90%, THD < 20 @ 120V. 0-10V dimming to 1%. 20C-50C operating range. Field replaceable.

MOUNTING: Standard installation is wall mount with included mounting brackets and hardware. Requires single-gang j-box supplied by others.

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. RoHS compliant.

Day-O-Lite offers a variety of tunable white and tunable color options for a range of human centric applications and budgets. It is recommended that a recognized authority on the benefits and best practices of tunable white be consulted prior to specification. As a rule, fewer channels will provide a basic level of performance for budget conscious applications. Conversely, an increased number of channels, a wider CCT range, higher CRI and more precise color consistency may be more appropriate depending on the application and desired results.

HOW TO SPECIFY

Select from the various channel/control options below and insert desired **Ordering Code** into the **COLOR TEMP** column of the Ordering Guide on page 1. No need to add a dimming option as the codes include the chosen protocol.

2-CHANNEL TUNABLE WHITE OPTIONS

2700K - 6500K CCT range

1000L/ft LED modules @ 4000K

80+ CRI w/3SDCM color accuracy

10W/ft. nominal power

Ordering Codes

2DIM10 for 0-10V control
2DALI   for DALI control
2DMX   for DMX control
2LTQ   for Lutron Quantum control
2SNS   for control via Signify SNS sensors
            (requires wireless control by others)

LEGRAND BLANCO MULTI-CHANNEL OPTIONS

Blanco-2

Blanco-2 mixes two channels of white LEDs to approximate the blackbody curve for tunable white applications. CCT and intensity may be adjusted with controls by others.

3000K-5000K CCT range

1000L/ft LED modules @ 4000K

90+ CRI w/2SDCM color accuracy

10W/ft. nominal power

Ordering Codes

B2DLM   for DLM control
B2DIM10 for 0-10V control
B2DMX   for DMX control

Blanco-3

Blanco-3 mixes three channels of white LEDs across a wider range of color temperatures for more demanding tunable white applications. CCT and intensity may be adjusted with controls by others.

2700K-6500K CCT range

1000L/ft. LED modules @ 4000K

90+ CRI w/SDCM color accuracy

10W/ft. nominal power

Ordering Codes

B3DLM   for DLM control
B3DIM10 for 0-10V control
B3DMX   for DMX control

LUMENETIX ARAYA5 TUNABLE COLOR

araya5 by Lumenetix mixes five colors of LEDs for advanced tunable color that closely matches the black body locus for the most demanding human centric applications. CCT and intensity may be controlled via 0-10V, DALI, DLM and Lutron EcoSystem controls. CCT, intensity, hue and saturation may be controlled via DMX controls. Ideal for use in hospitals, therapy and recovery centers, and assisted living facilities.

On board Bluetooth low energy (BLE)

1650K-8000K CCT range w/90+ CRI

Dimming form 100% to 1% or 0.1%

Gradients of saturated color and hue from 1-100%

2SDCM - thermal/optical feedback for color accuracy

Ordering Codes

LX10   for 0-10V control
LXDX   for DMX controls
LXDL   for DLM controls
LXLT   for Lutron EcoSystem controls
LXDA   for DALI controls

RGB & RGB/W TUNABLE COLOR

RGB = Red, green, blue color mixing LEDs

RGB/W = Red, green, blue w/white of chosen CCT

Dimming form 100% to 1%.

90+ CRI w/3SDCM color accuracy

10W/ft. nominal power

Ordering Codes

RGB   for DMX control
RGB27   for DMX control w/2700K white
RGB30   for DMX control w/3000K white
RGB35   for DMX control w/3500K white
RGB40   for DMX control w/4000K white
RGB50   for DMX control w/5000K white
RRB65   for DMX control w/6500K white

Day-O-Lite makes no claims as to the psychological or physiological efficacy of the white color tuning options offered herein.