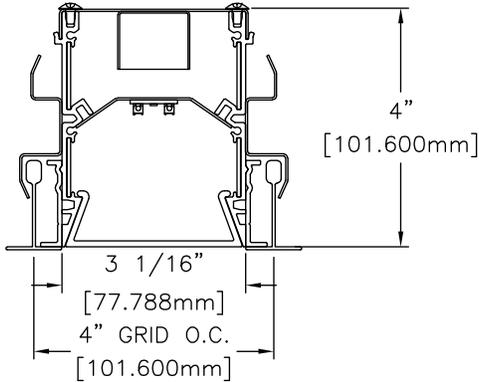
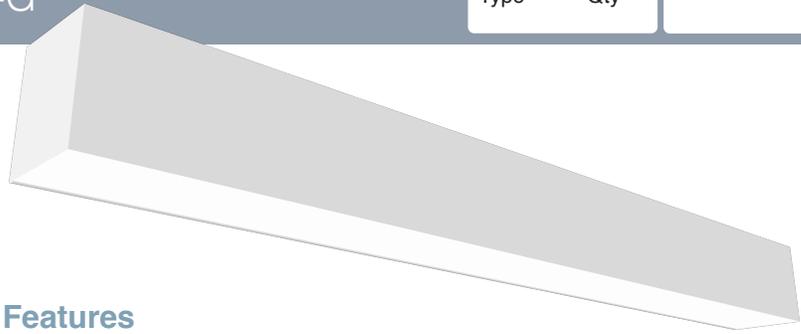


Date	Notes
Project	
Type Qty	



15/16" Grid (G) shown.  
See page 4 for additional  
grid ceiling options.



### Features

- Extruded aluminum housing w/steel end-plates & top.
- LED optimized optics for smooth even illumination end-to-end.
- For installation in a variety of suspended grid ceilings, including Slot Grid & Tegular.
- High efficiency programmable driver for custom lumen packages. 0-10V dimming to 1% standard.
- High efficacy LEDs in 80 or 90 CRI; tunable white & color. Bios SkyBlue™ circadian technology available.



### Ordering Guide

MODEL	OPTICS	CCT <sup>1</sup>	LUMENS	LENGTH <sup>4</sup>	MOUNTING <sup>5</sup>	FINISH	OPTIONS
<b>PRFL-44-D</b>							
PRFL-44-D Direct	FL = Flush Opal Acrylic (snap-in)	<p><b>STATIC WHITE<sup>1</sup></b> 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K</p> <p><b>BIOS SkyBlue<sup>2</sup></b> Spectrally optimized circadian solutions.</p> <p><b>TUNABLE WHITE<sup>3</sup></b> (2700K-6500K) 2DIM10 = for 0-10V 2DMX = for DMX 2PSQ = for Lutron 2ESN = for Philips 2CAS = for Casambi</p> <p><b>RGB + WHITE<sup>3</sup></b> RGB = RGB RGBW = RGBW</p> <p><b>ADVANCED COLOR<sup>3</sup></b> 125mm incremental pixel color control for chases and animated effects.</p>	<p>LO = 510/ft (5W/ft, 98LPW)</p> <p>SO = 680/ft (7W/ft, 98LPW)</p> <p>HO = 825 (9W/ft, 92LPW)</p> <p>Consult factory for additional lumen packages. All values nominal.</p>	<p>2 = 2 ft 3 = 3 ft 4 = 4 ft 5 = 5 ft 6 = 6 ft 7 = 7 ft 8 = 8 ft</p> <p>For other enter row length (e.g. 48 = 48 ft)</p>	<p>G = Grid MG = Mini Grid SG = Slot Grid</p> <p>See page 4 for additional options.</p>	<p>W = White CC = Custom Color AMW = Anti-Microbial White</p>	<p><b>DIMMING DRIVERS</b> DIM10 = 0-10V (1.0%) - <b>Standard</b> DIMSR = 0-10V (5.0%) Sensor Ready DIMST = Step Dimming (40%/100%) DALI = DALI (5.0%)</p> <p><b>LUTRON™ DIMMING DRIVERS</b> LDE1 = Hi-Lume™ 1% EcoSystem™ L3DA3W = Hi-Lume™ 1% 3-Wire</p> <p><b>SENSORS &amp; CONTROLS</b> ESN = Philips™ EasySense DAY = Daylight Harvesting OCC = Occupancy Sensor CAS = Casambi Bluetooth control VDO = Vive Sensor by Lutron</p> <p><b>EMERGENCY</b> EMC = Emergency Circuit GTD = Generator Transfer Device EPC4 = 4W Emergency Battery Pack EPC7 = 7W Emergency Battery Pack EPC10 = 10W Emergency Battery Pack EPC12 = 12W Emergency Battery Pack</p>

<sup>1</sup>CCT @ 80+CRI, 3SDCM. For 90CRI add prefix "9"; ex: 935 = 3500K, 90CRI.

<sup>2</sup>BIOS SkyBlue Biological Static & Dynamic page 3.

<sup>3</sup>Tunable White, RGB +White and Advanced Color ordering codes page 2.

<sup>4</sup>See page 4 for actual fixture lengths.

<sup>5</sup>See page 6 for grid ceiling mounting options.



### TUNABLE WHITE - Fixture Level Control



Day-O-Lite offers Tunable White in a range from 2700K-6500K CCT @ 80+CRI and 3SDCM color accuracy for a range of two-channel control options. Consult factory for 90CRI, electrical specifications and other details for each option below.

**2ESN** Option combines tunable white light with a fixture integrated occupancy and daylight harvesting sensor. CCT and intensity is controlled wirelessly with kinetic switches (by Illumra and others). Occupancy and daylight harvesting controlled automatically with parameters configurable with the Philips MasterConnect app available for Android and iPhone smart phones.

Applications:

- Spaces occupied overnight (~ 7pm to 7am)
- 24-hour spaces
- Shiftwork & Hospitals
- Senior Living, Alzheimer's Dementia & Assisted Living
- Higher Education, including student and staff
- Workplace, including areas occupied after 7pm

Ordering Codes:

- 2DIM10** = 0-10V
- 2DMX** = DMX
- 2PSQ** = Lutron Athena and Quantum
- 2CAS** = Casambi Wireless
- 2ESN** = Philips EasySense

### RGB + WHITE - Fixture Level Control



Combine RGB for color effects with LO/SO/HO white CCT's for **general illumination** in a host of applications. All options require DMX control (by others). 80CRI w/3SDCM color accuracy is standard. Consult factory for 90CRI, electrical specifications and other details for each option below. May not be compatible with all fixture variations - consult factory for details when ordering.

Applications:

- Entertainment Spaces
- Hospitality & Banquet
- Theatre & Stage
- Seasonal Applications
- Branding
- Wayfinding

Ordering Codes:

- RGB** = RGB only
- RGB27** = RGB w/2700K
- RGB30** = RGB w/3000K
- RGB35** = RGB W/3500K
- RGB40** = RGB w/4000K
- RGB50** = RGB w/5000K

### ADVANCED COLOR - 125mm Pixel Level Control



Day-O-Lite's Advanced Color options combine RGB or RGBW with multi-pixel control for advanced **chases**, animated **visual effects** and other programmable scenes with **125 mm pixel** granularity. Choose from a vibrant color palette with RGB or RGBW LEDs for seamless color mixing and dimming - the perfect replacement for glass neon with improved reliability and durability.

Requires configuration with a remote proprietary digital drive power supply. Auto-addressing makes setup and commissioning quick and easy. DMX (by others) required for control. May not be compatible with all fixture variations - consult factory for details when ordering.

Applications:

- Architectural Installations
- Digital Signage
- Arcades, Clubs
- Theatre & Stage
- Film & TV sets
- Indoor/Outdoor (IP66)

Ordering Codes:

- 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 pinpoint 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](http://www.bioslighting.com) or by contacting Day-O-Lite directly.

## BIOS Biological Static - Daytime Solution

BIOS Biological Static solutions are designed for daytime applications. BIOS Static Biological LED features key BIOS SkyBlue™ (490nm) for maximum daytime circadian impact. BIOS Static Biological LED Light Engines are available in 3000K, 3500K, and 4000K. Lighting controls are easy; simply switch the lights on/off or the lights can be dimmed using a single-channel constant current (CC) LED driver with any standard dimming interface.

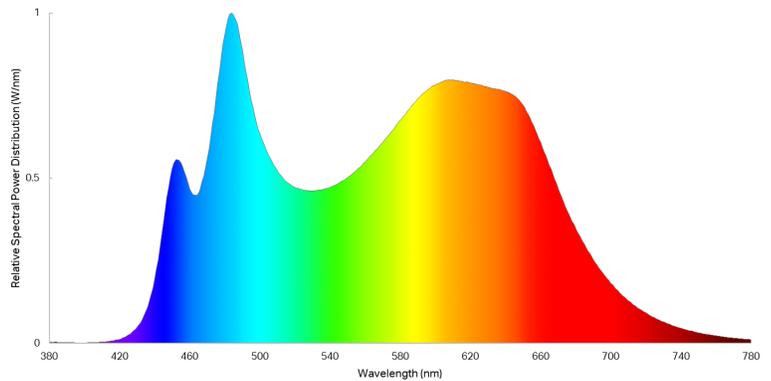
Applications:

- Spaces occupied during the daytime ~7am – 7pm
- K-12 Schools / Higher Education
- Offices
- Daytime Adult Care Facilities
- Medical Offices

BIOS Biological Static  
Ordering Codes:

- B30** = 3000K
- B35** = 3500K
- B40** = 4000K

BIOS Biological Static 3500K



## BIOS Biological Dynamic - Day & Night Solution A

BIOS Biological Dynamic solutions are 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™ altogether, providing a minimal circadian stimulus after hours. Available in 3000K-2700K, 3500K-3000K and 4000K-3500K. Simply dim the lights in the evening to remove the daytime SkyBlue wavelengths (490nm) and convert your lights from day mode to night mode via a single controller (0-10V, ELV, DMX, Wireless).

## BIOS Biological Tunable White - Day & Night Solution B

BIOS Biological Tunable solutions are 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™ altogether, providing a minimal circadian stimulus after hours. Available in 3000K-2700K, 3500K-3000K and 4000K-3500K. Simply dim the lights in the evening to remove the daytime SkyBlue wavelengths (490nm) and convert your lights from day mode to night mode via a single controller (0-10V, ELV, DMX, Wireless).

BIOS Biological Tunable is also compatible with two-channel color tuning systems. Simply dim the lights in the evening to convert your lights from day mode to night mode via a multi-channel controller (0-10V, ELV, DMX, Wireless). 3000K, 3500K and 4000K CCTs all dim to 2700K.

Applications:

- Spaces occupied overnight (~ 7pm to 7am)
- 24-hour spaces
- Shiftwork & Hospitals
- Senior Living, Alzheimer's Dementia & Assisted Living
- Higher Education, including student and staff
- Workplace, including areas occupied after 7pm

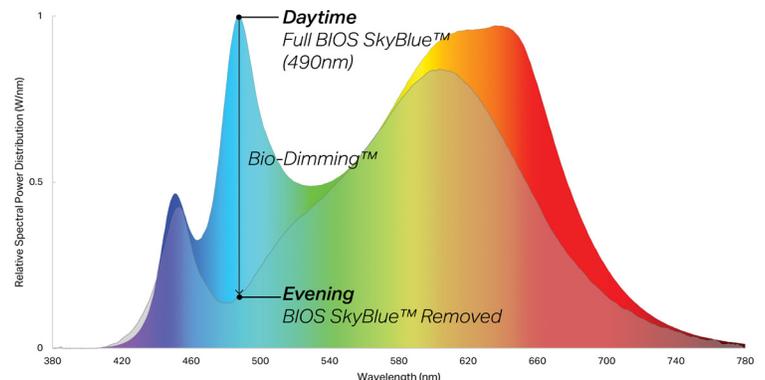
BIOS Biological  
Dynamic White  
Ordering Codes:

- B30D** = 3000K-2700K
- B35D** = 3500K-3000K
- B40D** = 4000K-3500K

BIOS Biological  
Tunable White  
Ordering Codes:

- B30T** = 3000K-2700K
- B35T** = 3500K-2700K
- B40T** = 4000K-2700K

BIOS Biological Dynamic 3500K

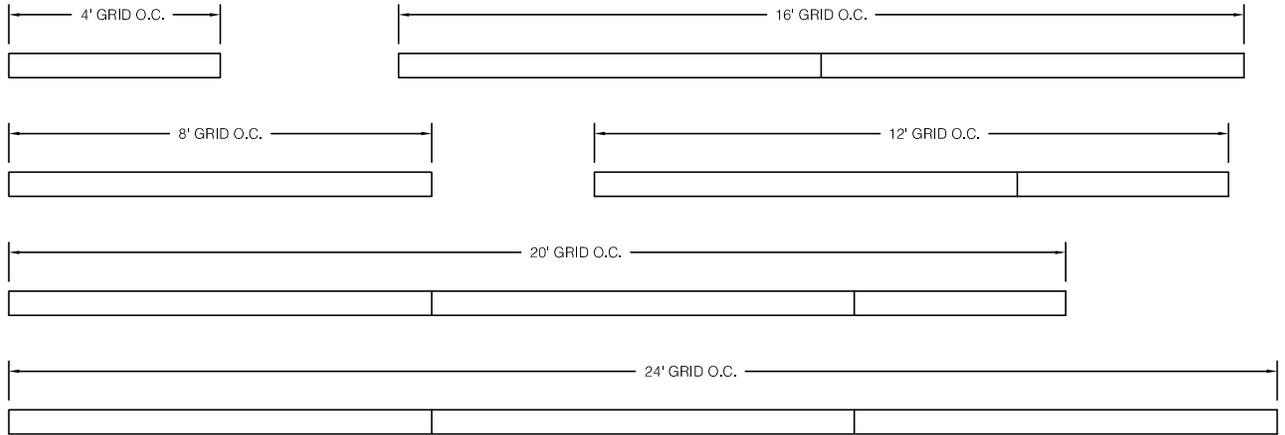


## Individual Fixtures & Continuous Rows

NOMINAL LENGTH	GRID O.C.
2'	2'
4'	4'
8'	8'
12'	12'
16'	16'
20'	20'
24'	24'

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 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.

## Pattern Guide

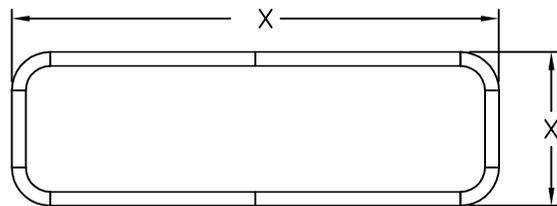
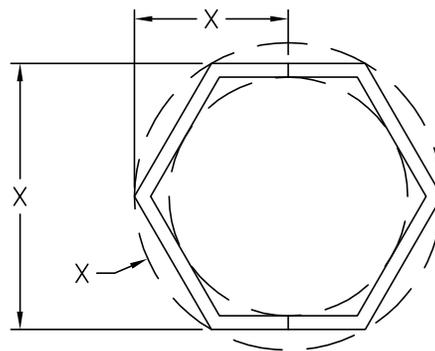
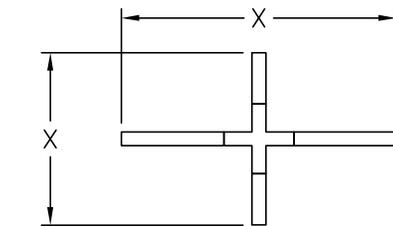
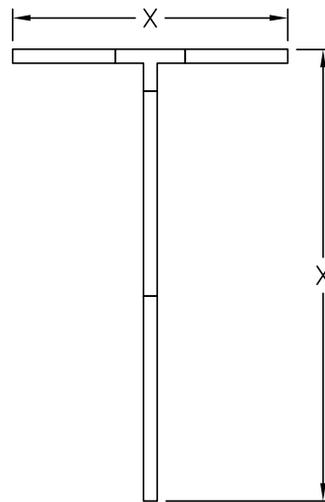
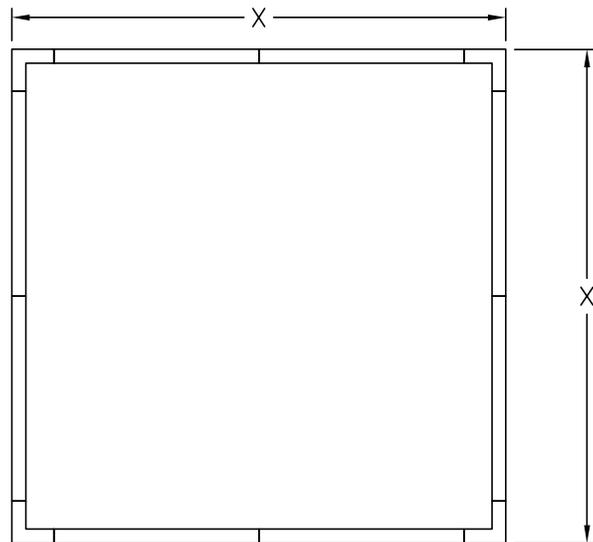
Profile may be specified in patterns of virtually any configuration. All patterns and corners are continuously illuminated and joined with included aligner brackets and joining hardware. See examples below for suggestions with actual and nominal dimensions. Day-O-Lite's custom manufacturing capabilities 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.

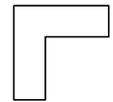
## How to Specify

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.

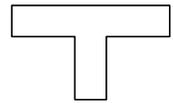
## Pattern Examples



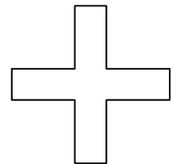
## Illuminated Connectors



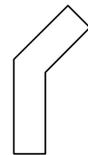
ILC2 = 90° Corner



ILC3 = 90° Tee



ILC4 = 90° Cross

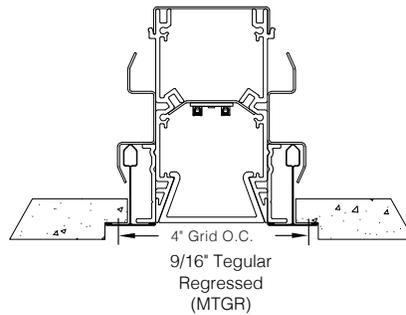
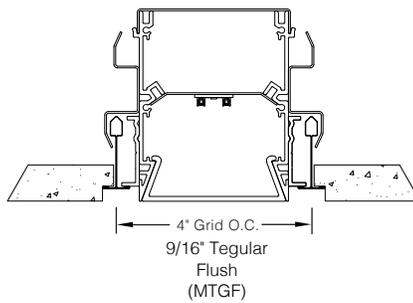
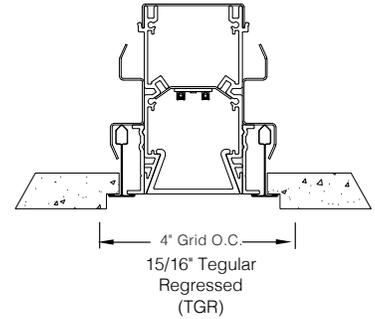
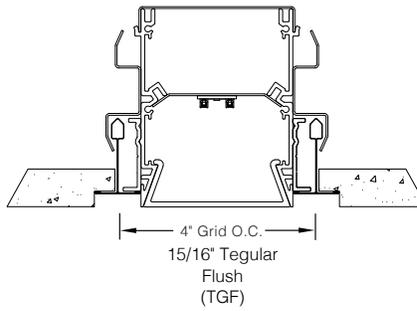
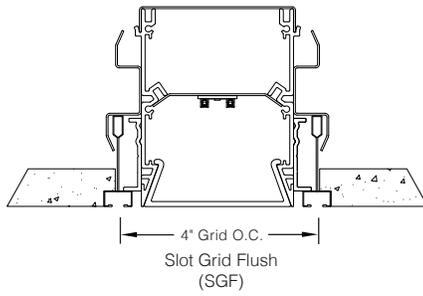
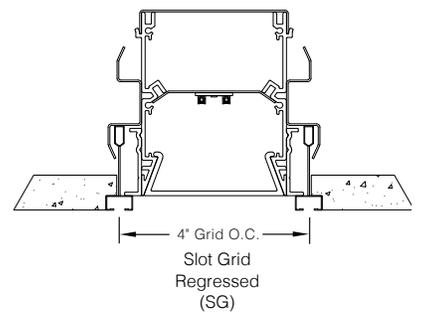
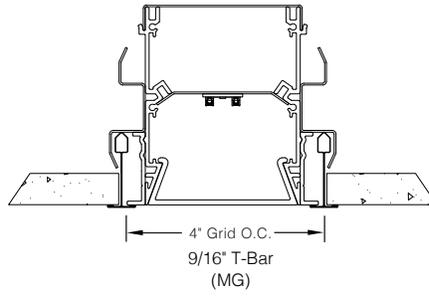
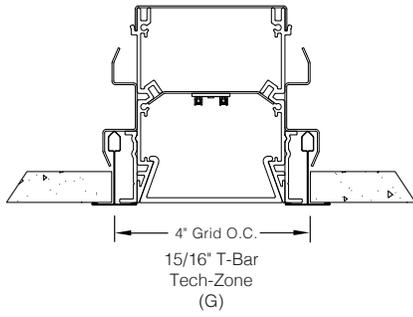


ILCX = X° Custom



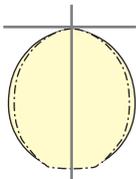
ILCR = Custom Radius

### Recessed Mounting Options



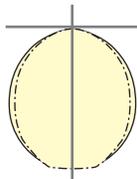
### Photometry

PRFL-44-D-FL-40-LO-4-G



4000K CCT  
WATTS: 21  
LUMENS: 2054  
LPW: 98  
Optical Distribution:  
100% Direct

PRFL-44-D-FL-40-SO-4-G



4000K CCT  
WATTS: 28  
LUMENS: 2738  
LPW: 98  
Optical Distribution:  
100% Direct

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## 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 Satin Ice (SI) acrylic regressed, opal acrylic flush (FL) and opal acrylic drop (DL) lenses are available. Diffuse Polycarbonate (DP) lay-in lens available for matching ARCL-24-D series.

**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 and Tunable White options available.

**DRIVER** Standard driver is Class 2 AOC 0-10V to 1%, 120/277V input, PF > 90%, THD < 20 @ 120V. Additional dimming protocols available. All drivers prewired from factory for connection to control system (by others); field replaceable.

**MOUNTING:** Install in an exposed inverted T-bar ceiling. Fixtures are supplied with four support brackets for additional support to T-bar.

**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.