DAY·O·LITE

PNRL Series | PNRL Perimeter

Date	Notes
Project	
Type Qty	

1'−0 5/16"
[312.83mm]

8 1/4"
[209.65mm]
OAH

6 1/4"
[158.85mm]

7"
[177.80mm]

9 1/4"
[235.41mm]

Telescoping LED Tray
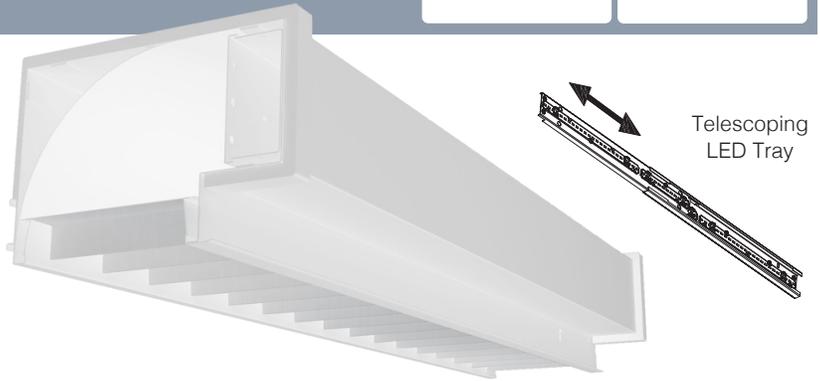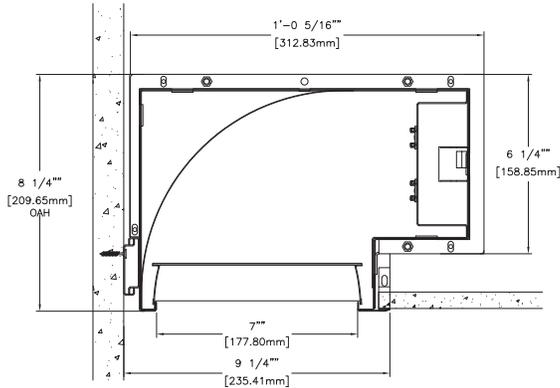
Perimeter

Features

Traditional louvered perimeter wall washer.

Parabolic or steel cross blade louvers for glare reduction and smooth illumination.

Innovative telescoping end allows 24" of adjustment for perfect wall-to-wall illumination.

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[1]	LUMENS[2]	LENGTH[4]	MOUNTING[4]	FINISH	OPTIONS
PNRL-D							
PNRL-D Direct Perimeter	PBL = Semi-specular Parabolic Louvers w/ acrylic overlay SCB = Steel Cross-Blade lovers w/acrylic overlay	**STATIC WHITE[1]** 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K **BIOS Skyblue[2]** Spectrally optimized circadian solutions. **TUNABLE WHITE[3]** (2700K-6500K) 2DIM10 = for 0-10V 2DMX = for DMX 2PSQ = for Lutron 2SNS = for Signify 2CAS = for Casambi **RGB + WHITE[3]** RGB = RGB RGBW = RGBW **ADVANCED COLOR[3]** 125mm incremental pixel color control for chases and animated effects.	LO = 708/ft (10W/ft, 71LPW) SO = 949/ft (14W/ft, 67LPW) HO = 1181/ft (18WL/ft, 65LPW) Values above with PBL Optics. Consult factory for additional lumen packages. All values nominal.	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)	G = Grid F = Flanged TRL = Trim-less	W = White CC = Custom Color AMW = Anti-Microbial White	**DIMMING DRIVERS** DIM10 = 0-10V (1.0%) - **Standard** DIMSR = 0-10V (5.0%) Sensor Ready DIMST = Step Dimming (40%/100%) DALI = DALI (5.0%) **LUTRON™ DIMMING DRIVERS** LDE1 = Hi-Lume™ 1% EcoSystem™ L3DA3W = Hi-Lume™ 1% 3-Wire **SENSORS & CONTROLS** ESN = Philips™ EasySense DAY = Daylight Harvesting OCC = Occupancy Sensor CAS = Casambi wireless VDO = Vive Sensor by Lutron **EMERGENCY** 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 Some options not integral to fixture. Please consult factory.

[1] CCT @ 80+CRI, 3SDCM. For 90CRI add prefix "9"; ex: 935 = 3500K, 90CRI.

[2] BIOS Skyblue Biological Static & Dynamic page 3.

[3] Tunable White, Color+White and Advanced color ordering codes page 2.

[4] See page 4 for actual fixture lengths and mounting locations.

made in USA

c UL us

RoHS Compliant

LUTRON 2016 OEM ADVANTAGE ACCOUNT

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.

2SNS 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 Quantum
2CAS = Casambi Wireless
2SNS = 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 variations of PRFL-24 -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 variations of PRFL-24 - consult factory for all 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 pin-point 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.

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
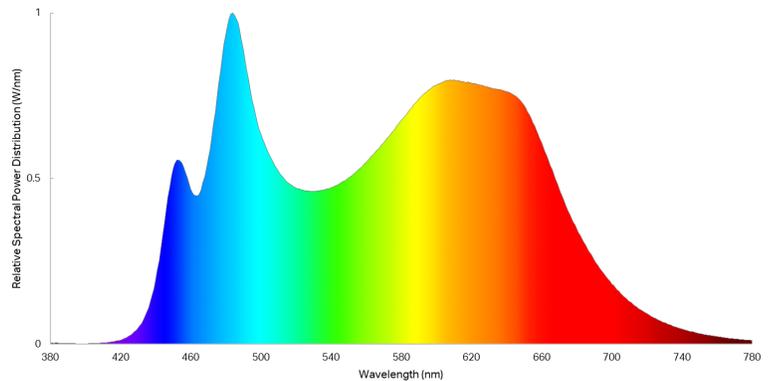
BIOS Biological Dynamic - Day & Night Solution **A**

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 SkyBlueTM (490nm) for maximum daytime circadian impact, while the evening spectrum removes BIOS SkyBlueTM 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

Daytime
Full BIOS SkyBlue™
(490nm)

Bio-Dimming™

Evening
BIOS SkyBlue™ Removed
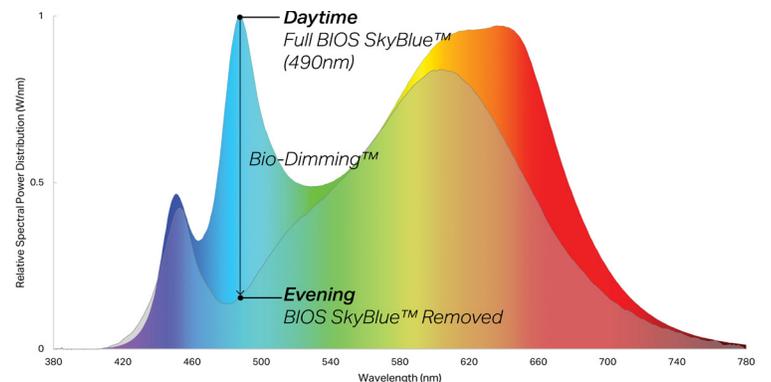
Individual Fixtures & Continuous Rows

NOMINAL LENGTH	MIN LENGTH	MAX LENGTH
4'	4'	4'
8'	6'	8'
12'	10'	12'
16'	14'	16'
20'	18	20'
24'	22'	24'

Table shows minimum and maximum field adjustable length with included telescoping end (shown at right of fixtures lengths below). Illumination is continuous along entire 24" telescoping section. See PRNL Install Guide at www.dayolite.com for details.

Exact adjustment lengths are dependant on overall specified length of individual fixture or row. Detail will be noted on factory issued drawings for approval.

Continuous rows longer than 24' and patterns, including EPC/EMC and sensor locations must be approved prior to manufacturing.
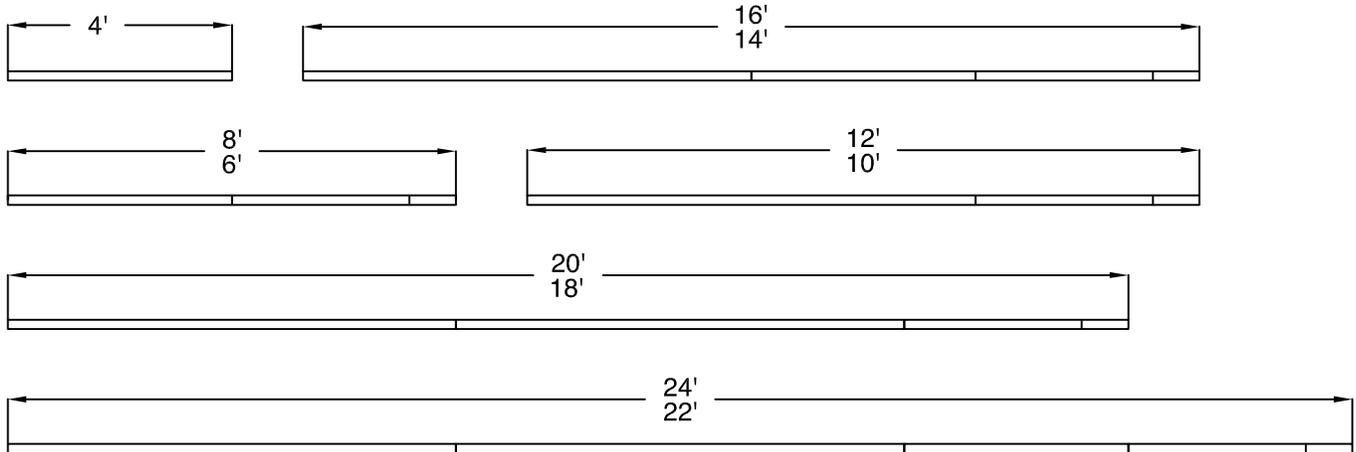
EPC/EMC Locations

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.

Pattern Guide

PNRL 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. Day-O-Lite's custom manufacturing capabilities allow the specification of custom corners of any degree (see ILX example below).

How to Specify

1. Submit your pattern to Day-O-Lite in a 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
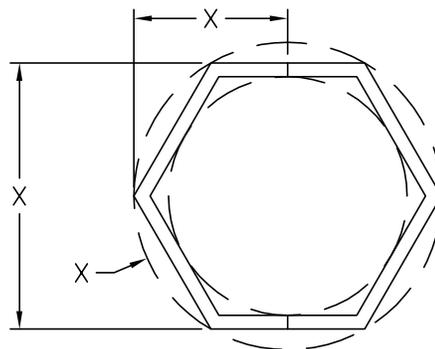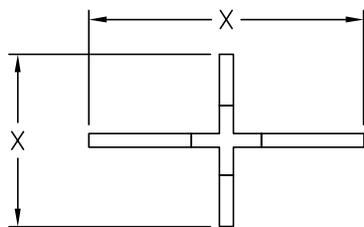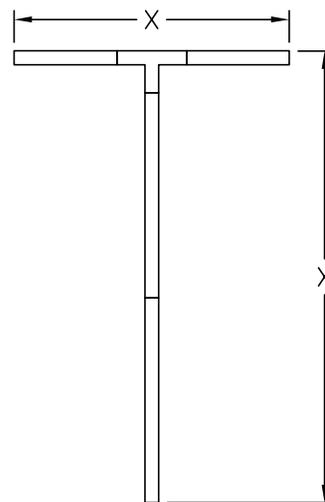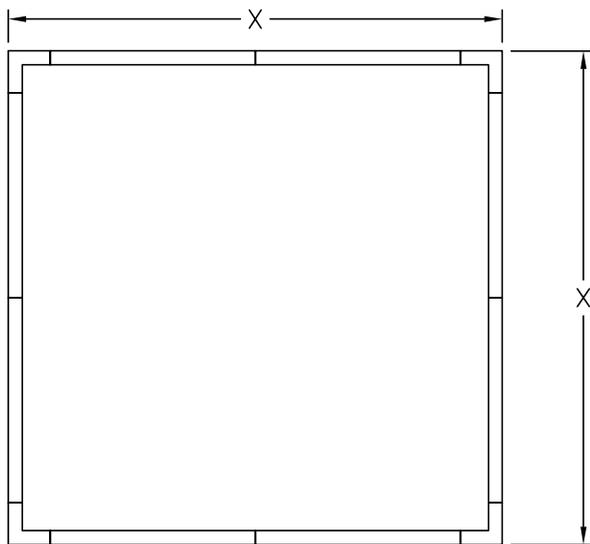
Illuminated Connectors

ILC2 = 90º Corner

ILC3 = 90º Tee

ILC4 = 90º Cross
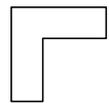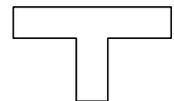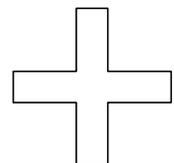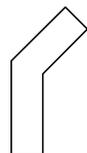
ILCX = Xº Custom

Photometry

PNRL-D-PBL-40-**LO**-4-G
Satin Ice Lens (SI)
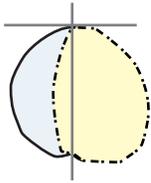
4000K CCT
WATTS: 20
LUMENS: 2832
LPW = 71
Distribution:
100% Direct

PNRL-D-PBL-40-**SO**-4-G
Satin Ice Lens (SI)
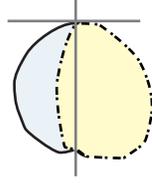
4000K CCT
WATTS: 28
LUMENS: 3796
LPW = 67
Distribution:
100% Direct

PNRL-D-PBL-40-**HO**-4-G
Satin Ice Lens (SI)
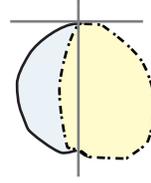
4000K CCT
WATTS: 35
LUMENS: 4724
LPW = 65
Distribution:
100% Direct

Grid Mounting Options

15/16" T-Bar (G) · 9/16" T-Bar (MG) · Slot Grid (SG) · Interlude (XG) · 15/16" Tegular Flush (TGF) · 9/16" Tegular Flush (MTGF) · Slot Grid Flush (SGF) · Interlude Flush (XGF)
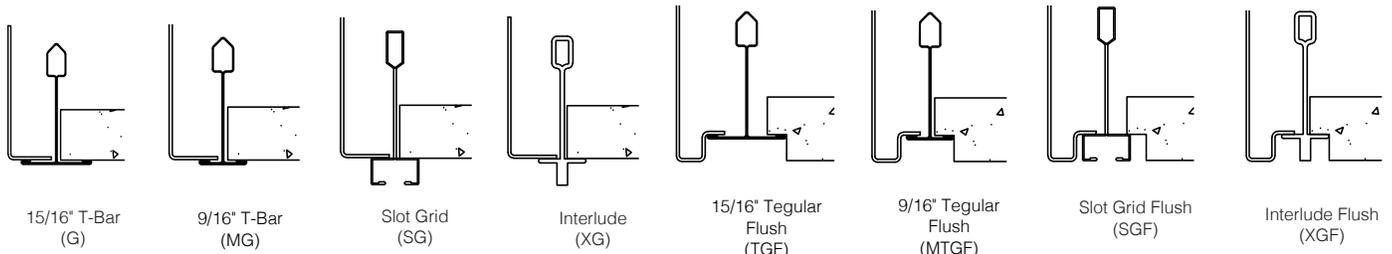
Specifications

CONSTRUCTION: Fully assembled, one-piece, die-formed, 20-gauge cold rolled steel housing. All housings interlock with a continuous wall rail system and accept tie wire (supplied by others) for mounting and leveling. All housings are self-flanged and join with alignment brackets to bolt together.

REFLECTOR: White polyflex, continuous to 44'.

OPTICS: Parabolic (PBL) semi-specular louvers or (SCB) steel cross blade louvers with acrylic overlay.

LEDS: LED modules in 30/35/40 & 50K CCT, 80+ CRI (90 CRI available). Lumen maintenance minimum L_{70} = 50,000 hours @ 25 C° ambient temperature. 3 SDCM color consistency. Zhaga™ compliant (Book 7); field replaceable.

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: Standard installation is an exposed inverted T-bar ceiling. Fixture installations are also available in miniature grid, drywall or plaster ceiling.

FINISH: Fixture housing and steel components are finished in baked white enamel applied over a five-stage pretreatment process.

CERTIFICATION: Luminaires are cETLus listed conforming to UL STD. 1598 and certified to CSA STD C22.2 NO. 250.0. Dry and damp location suitable. Union Made in the United States of America. I.B.E.W. RoHS compliant.