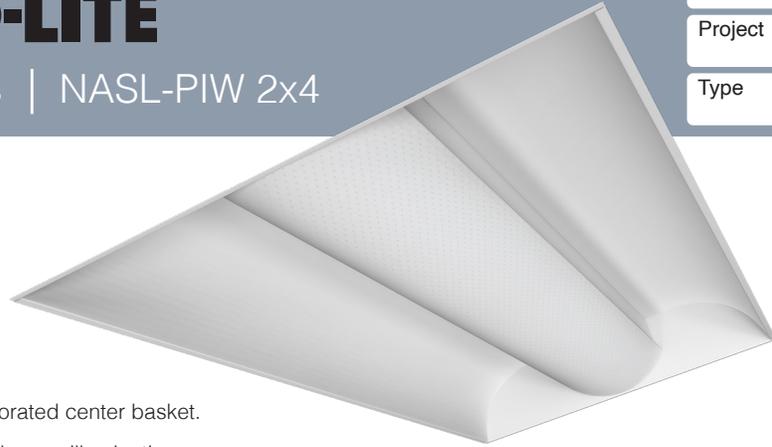




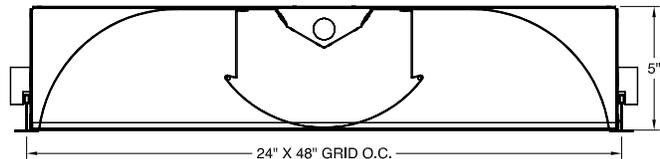
# New Age Series | NASL-PIW 2x4

Date	Notes
Project	
Type	Qty



## Features

- Durable steel housing with perforated center basket.
- LED optimized optics for smooth even illumination without glare.
- For installation in a wide variety of suspended grid ceilings, including Slot Grid and Tegular.
- High efficiency 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; tunable color.
- A **Declare** Red List Approved Product.



## Ordering Guide

MODEL	OPTICS	CCT <sup>1</sup>	LUMENS	SIZE	MOUNTING <sup>4</sup>	FINISH	OPTIONS
<b>NASL-PIW-D</b>	<b>PF</b>		<b>VHO</b>	<b>24</b>			
NASL-PIW-D Direct	PF = Perforated with white acrylic overlay.	<b>STATIC WHITE<sup>1</sup></b> 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K  <b>BIOS SkyBlue<sup>2</sup></b> Spectrally optimized circadian solutions.  <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  <b>DIM-TO-WARM</b> (2700K-6500K) DTW = Dim-to-Warm  <b>RGB + WHITE<sup>3</sup></b> RGB = RGB RGBW = RGBW	LO = 3300 (40W, 83LPW)  SO = 4400 (53W, 83LPW)  HO = 5300 (66W, 82LPW)  VHO = 6300 (76W, 80LPW)  Consult factory for additional lumen packages.  All values are nominal.	24 = 2x4	G = Grid MG = Mini Grid  SG = Slot Grid  S = Surface F = Flange  See all mounting options page 2.	W = White CC = Custom Color  AMW = Anti-Microbial White	<b>ROUND END CAPS</b> RE = Round End Caps  <b>DIMMING DRIVERS</b> DIM10 = 0-10V (1%) - <b>Standard</b> DIMCF = Dim-to-Off (Comfort Fade) DIMOF = Dim-to-Off DIMSR = 0-10V (5.0%) Sensor Ready DIMST = Step Dimming (40%/100%) DALI = DALI (5.0%) DMX = DMX  <b>LUTRON™ DIMMING DRIVERS</b> LDE1 = Hi-Lume™ 1% EcoSystem™ L3DA3W = Hi-Lume™ 1% 3-Wire  <b>SENSORS &amp; CONTROLS</b> ESN = Philips™ EasySense DAY = Daylight Harvesting OCC = Occupancy Sensor CAS = Casambi Bluetooth control VDO = Vive Sensor by Lutron AWNR = Athena RF/Node AWNS = Athena Wireless Sensor  <b>EMERGENCY</b> EMC = Emergency Circuit EPC7 = 7W Emergency Battery Pack  Consult factory for other wattages.

<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, and RGBW ordering codes page 2.

<sup>4</sup>See page 4 for mounting option details.



### 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 of - consult factory for all 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 of - 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 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.

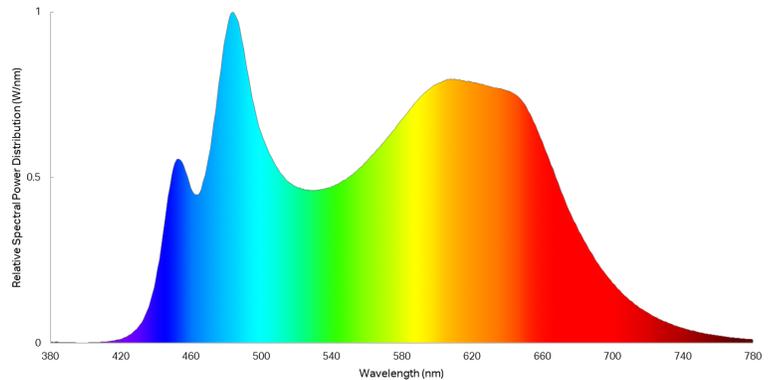
Applications:

- 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

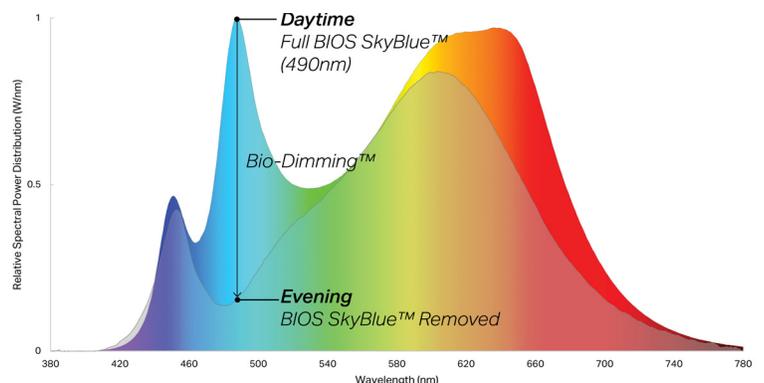
BIOS Biological  
Dynamic White  
Ordering Codes:

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

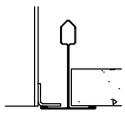
BIOS Biological  
Tunable White  
Ordering Codes:

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

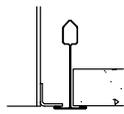
BIOS Biological Dynamic 3500K



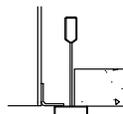
## Mounting Options



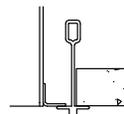
15/16" T-Bar  
(G)



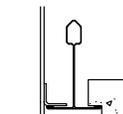
9/16" T-Bar  
(MG)



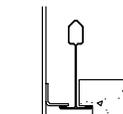
Slot Grid  
(SG)



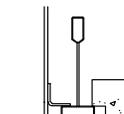
Interlude  
(XG)



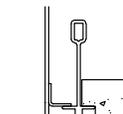
15/16" Tegular  
Flush  
(TGF)



9/16" Tegular  
Flush  
(MTGF)



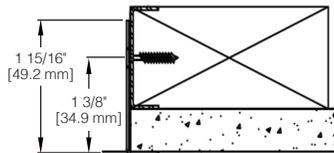
Slot Grid Flush  
(SGF)



Interlude Flush  
(XGF)

## Drywall Ceiling

Mounting Detail



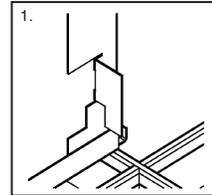
Flange Kit for drywall ceilings available:

FK-14 for 1x4      FK-24 for 2x4  
FK-22 for 2x2      FK-44 for 4x4

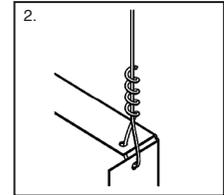
## Grid Ceiling

Five-step Universal  
Installation Sequence.

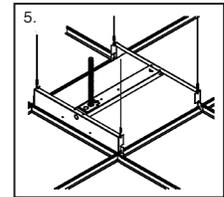
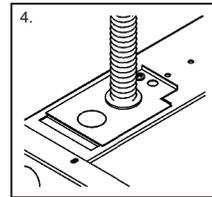
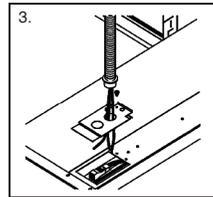
Complete Installation  
Instructions for grid  
and drywall ceiling types  
are available at:  
[www.dayolite.com](http://www.dayolite.com)



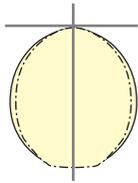
Position Fixture



Secure Tie Wire



## Photometry



**NASL-PIW-D-PF-40-LO-24**

CCT: 4000K  
WATTS: 40  
LUMENS: 3300  
LPW: 83  
Distribution:  
100% Direct

**NASL-PIW-D-PF-40-SO-24**

CCT: 4000K  
WATTS: 53  
LUMENS: 4400  
LPW: 83  
Distribution:  
100% Direct

**NASL-PIW-D-PF-40-HO-24**

CCT: 4000K  
WATTS: 66  
LUMENS: 4400  
LPW: 82  
Distribution:  
100% Direct

**NASL-PIW-D-PF-40-VHO-24**

CCT: 4000K  
WATTS: 76  
LUMENS: 6300  
LPW: 80  
Distribution:  
100% Direct

## Specifications

**CONSTRUCTION:** 20 gauge CRS housing and internal components.

**REFLECTOR:** 20 gauge CRS finished in highly reflective baked white enamel with pre-finished reflective LED tray.

**OPTICS:** Perforated with white acrylic overlay.

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

**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 in an exposed inverted T-bar ceiling. Fixtures are supplied with four support brackets for additional support to T-bar. May also be installed in a plaster ceiling (F/TRL mounting option with Flange).

**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. RoHS compliant. DLC V5.1 listed and Declare Red List Approved.