# **Affinity Series** | AFNL 2x2

Date

Project

Notes

Type Qty

# **Features**

Adjustable drop lens troffer. Flush to 7" drop in 1" increments. May be field adjusted to 1/2" increments. LED optimized optics for smooth, efficient illumination. Programmable driver for custom lumen packages. 0-10V dimming to 1% standard or Dim-to-Off. DMX, Lutron and DALI protocols also available. Sensor Ready for wireless Smart Lighting Solutions. 80/90CRI, Tunable White, RGBW & RGBWW. Bios SkyBlue<sup>™</sup> circadian solutions available. Compatible with Armstrong<sup>®</sup> ceiling systems.

Declare Red List Approved.

# 

#### 2" Len Drop Shown



# **Ordering Guide**

MODEL	OPTICS	CCT <sup>1</sup>	LUMENS <sup>2</sup>	SIZE	<b>MOUNTING</b> <sup>3</sup>	FINISH	OPTIONS
AFNL-D	WOA			22			
AFNL-D Direct	WOA = White Opal Acrylic lens 00 = Flush 10 = 1° drop 20 = 2° drop 30 = 3° drop 40 = 4° drop 50 = 5° drop 70 = 7° drop	STATIC WHITE 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K BIOS SkyBlue Spectrally optimized circadian solutions. TUNABLE WHITE (2700K-6500K) 2DIM10 = for O-10V 2DMX = for DMX 2ESN = for Casambi 2LUT = for Lutron DIM-TO-WARM DTW = Dim-to-Warm RGB & WHITE RGB = RGB RGBW = RGBW RGBWW = RGBWW (2700K-6500K)	STANDARD LO = 2235 (20W, 111LPW) SO = 2863 (27W, 106LPW) HO = 3700 (35W, 100LPW) For lens in flush lens position. See page 2 for performance at other lens depths. CUSTOM For custom lumens specify value < HO.	22 = 2x2	G = Grid 15/16" T-Bar MG = Mini Grid 9/16" T-Bar SG = Slot Grid SGF = Slot Grid Flush XG = Interlude XGF = Interlude Flush 15/16" T-Bar XGF = Tegular Flush 9/16" T-Bar S = Surface F = Flange	W = White CC = Custom Color	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 <sup>4</sup> AVO = Avi-On Sensor CAS = Casambi Wireless Control EMERGENCY & OTHER <sup>5</sup> EMC = Emergency Circuit EPC4 = 4W Emergency Battery Pack EPC6 = 6.5W Emergency Battery Pack EPC12 = 12W Emergency Battery Pack EPC12 = 12W Emergency Battery Pack EPC12 = 12W Emergency Battery Pack EPC4 = MEMERGENCY & MINER FWH = Flexible Wiring Harness DWH = DMX Wiring Harness FK22 = Flange Kit

<sup>1</sup>All LED, BIOS, Tunable White, DTW, and RGB/W options and Ordering Codes page 2.

<sup>2</sup>Lumens at 80CRI, 4000K, SI lens. Photometry page 3.

<sup>3</sup>See page 3 for all mounting options.

<sup>4</sup>All Sensor & Control options page 2. Sensors remote mount only.

<sup>5</sup>EPC6 is standard unless otherwise specified. EPC not for DMX drivers.

BAA letter of compliance available at www.dayolite.com.

# DAY-O-LITE

# 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 White<sup>1</sup> (2700K-6500K)

2DIM10 = 0-10V 80 CRI 2DMX = DMX 80 CRI 2CAS = Casambi Wireless 80 CRI 2ESN = Philips EasySense 80 CRI 2LUT = Lutron (LD2) 80 CRI

92DIM10 = 0-10V 90 CRI 92DMX = DMX 90 CRI 92CAS = Casambi Wireless 90 CRI 92ESN = Philips EasySense 90 CRI 92LUT = Lutron (LD2) 90 CRI

#### Dim-to-Warm<sup>2</sup>

DTW = 6500K-2700K 80 CRI 9DTW = 6500K-2700K 90 CRI

#### RGB/W<sup>3</sup>

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

#### 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)
- BNV = BubblyNet Occ/Day
- ENC = Encelium Occ/Day
- ENL = EnLighted Occ/Day/Temp 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

#### Wireless Control\*

CAS = Casambi

\*Sensors for remote mount only.

Sensors and control options to be commissioned wirelessly in the field by qualified controls personnel with applicable apps (by others).

#### **Other Options**

Other sensor and wireless control options are available. Contact factory for details.

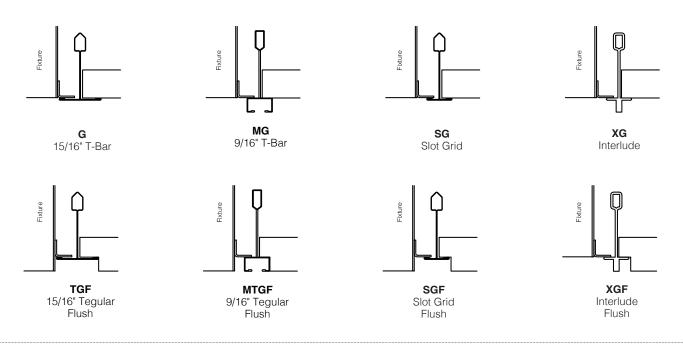
<sup>1</sup>Tunable white may be controlled by a number of dimming protocols as shown.

<sup>2</sup>Dim-to-Warm mimics incandescent dimming by warming the CCT from 6500K to 2700K as light levels are dimmed.

<sup>3</sup>All RGB, RGBW and RGBWW options for DMX control (by others). 80 CRI standard.

**DAY-O-LITE** 

# Grid Ceiling Mounting Options



### **Photometry**



AFNL-D-00-40-SO-22 AFNL-D-20-40-SO-22 (2" lens drop)

CCT: 4000K Wattts: 27 Lumens: 2863 LPW: 106

AFNL-D-50-40-SO-22 (5" lens drop)

CCT: 4000K Watts: 27 Lumens: 2739 LPW: 101

AFNL-D-70-40-SO-22 (7" lens drop) CCT: 4000K Watts: 27 Lumens: 2669

LPW: 99

40000K @ 80CRI, SI 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

#### **Specifications**

CONSTRUCTION: Die-formed, 20-gauge, cold rolled steel.

(flush lens)

CCT: 4000K

Lumens: 2979

Watts: 27

LPW: 110

**REFLECTOR:** Highly reflective, die-formed steel finished in baked white enamel is standard.

OPTICS: LED optimized white opal acrylic. Specifiable in 1" drop increments. May be field adjusted to 1/2" increments if desired.

LED: Static white LED modules in 27/30/35/40 & 50K CCT, 80/90CRI. Lumen maintenance minimum L<sub>20</sub> = 50,000 hours. 3 SDCM color consistency. BIOS SkyBlue, RGB, RGBW, RGBWW. Tunable White and Dim-to-Warm options available.

DRIVER: Standard driver is Class 2 AOC 0-10V to 1%, Dim-to-Off available. 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); field replaceable.

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, I.B.E.W, BAA compliant, Declare Red List Approved.

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