DAY·O·LITE

Affinity Series | AFNL 2x2

Date	Notes
Project	
Type Qty	

24" x 24" Grid O.C.
[609.6 mm x 609.6 mm]

5 1/8"
[130.3mm]

20 = 2" Drop Lens
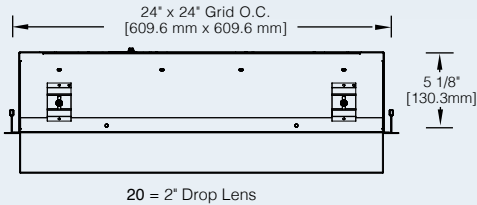
Direct
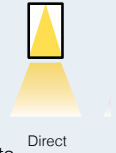
Features

Adjustable drop lens troffer. Order from flush to 7" drop in 1" increments (factory-set). May be field adjusted in 1/2" increments - see page 2.

LED optimized optics for smooth even illumination and high efficiency.

Installs in a variety of suspended grid ceilings, including Slot Grid and Tegular.

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

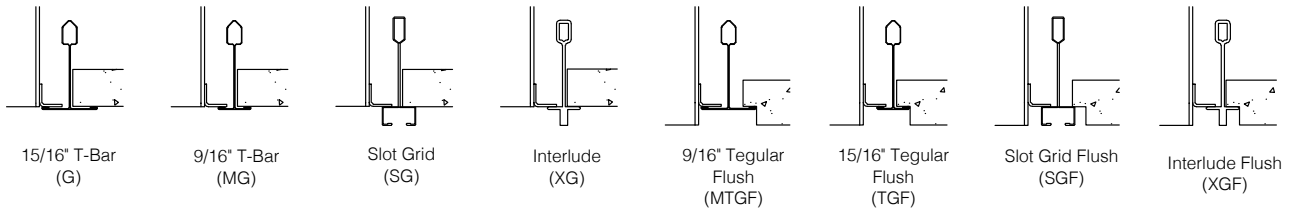| MODEL	OPTICS	CCT[1]	LUMENS[2]	SIZE	MOUNTING[3]	FINISH	OPTIONS
AFNL-D	**WOA**						
AFNL-D Direct	WOA = White Opal Acrylic lens Select from the various factory-set lens drop options below. 00 = Flush 10 = 1" drop 20 = 2" drop 30 = 3" drop 40 = 4" drop 50 = 5" drop 60 = 6" drop 70 = 7" drop Lens may be field adjusted in 1/2" increments. See page 2 for details.	27 = 2700K 80CRI 30 = 3000K 80CRI 35 = 3500K 80CRI 40 = 4000K 80CRI 50 = 5000K 80CRI 90 CRI add "9" Ex: 940 = 4000K @ 90 CRI **TUNABLE WHITE & COLOR[1]** 2-Channel White 2DIM10 = for 0-10V 2DALI = for DALI 2DMX = for DMX 2PSQ = for Lutron 2SNS = for Signify 2CAS = for Casambi 3-Channel White 3DML = for DLM 3-Channel Color RGB 4-Channel Color/White RGBW 5-Channel Color/Warm White/Cool White RGBWW	**2X2 LUMENS** LO = 2235 (21W, 106LPW) SO = 2980 (28W, 106LPW) HO = 3700 (35W, 103LPW) For lens in flush lens position. See page 2 for performance at other lens depths. Consult factory for additional lumen packages.	22 = 2x2	G = Grid MG = Mini Grid SG = Slot Grid F = Flange See all mounting options page 2.	W = White CC = Custom Color	**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™ LDE5 = 5-Series 5% EcoSystem™ L3DA3W = Hi-Lume™ 1% 3-Wire LTEA2W = Hi-Lume 1% 2-Wire 120V **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

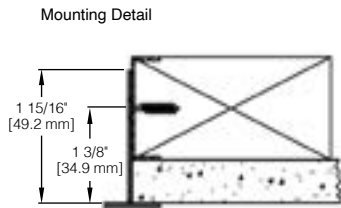[1]Tunable white, tunable color and RGB/W options detailed on page 3.

[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 2 for photometry for lens options. [3]See page 2 for ceiling mounting options details and full specifications.

Mounting Options

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

Drywall Ceiling

Mounting Detail

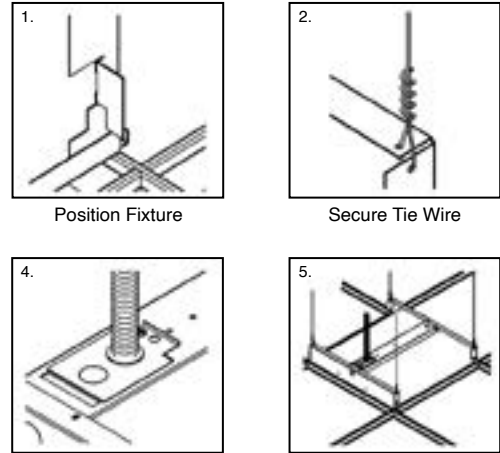1 15/16" [49.2 mm]

1 3/8" [34.9 mm]

Flange Kit for drywall ceilings available:
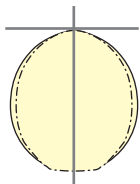
FK-22 for 2x2

Grid Ceiling

Five-step Universal Installation Sequence.

Complete Installation Instructions for grid and drywall ceiling types are available at: www.dayolite.com

1.

2.

Position Fixture

Secure Tie Wire

3.

4.

5.

Photometry

AFNL-D-**00**-40-SO-22
(flush lens)

CCT: 4000K
Watts: 28
Lumens: 2979
LPW: 106
Distribution:
100% Direct

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

CCT: 4000K
Wattts: 28
Lumens: 2863
LPW: 102
Distribution:
100% Direct

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

CCT: 4000K
Watts: 28
Lumens: 2739
LPW: 98
Distribution:
100% Direct

AFNL-D-**70**-40-SO-22
(7" lens drop)

CCT: 4000K
Watts: 28
Lumens: 2669
LPW: 95
Distribution:
100% Direct

Field Adjustment of Drop Lens

Affinity may be specified in lens drop increments of 1" (factory-set) as shown on the Ordering Guide (page 1) and below. Whithin each of those specified settings there are additional field adjustments in 1/2" icrements in the ranges shown below.

This allows for up to 17 different lens drop settings for maximum creativity in any interior environment.

LENS	FIELD ADJUMENTS IN 1/2" INCREMENTS					
00 = Flush	0.0"	0.5"	0.1"	1.5"	2.0"	2.5"
01 = 1"	0.0"	0.5"	0.1"	1.5"	2.0"	2.5"
02 = 2"	0.0"	0.5"	0.1"	1.5"	2.0"	2.5"
03 = 3"	2.5"	3"	3.5"	4"	4.5"	5.0"
04 = 4"	2.5"	3"	3.5"	4"	4.5"	5.0"
05 = 5"	2.5"	3"	3.5"	4"	4.5"	5.0"
06 = 6"	5.0"	5.5"	6.0"	6.5"	7.0"	7.5"
07 = 7"	5.0"	5.5"	6.0"	6.5"	7.0"	7.5"

Tunable White & Tunable Color[1]

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
2PSQ	for Lutron Quantum control
2SNS	for control via Signify SNS sensors
2CAS	for control via Casambi BLE wireless devices

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

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

RGB & RGBW TUNABLE COLOR

RGB = Red, Green, Blue color mixing LEDs

RGB/W = Red, Green, Blue + White of chosen CCT

Dimming form 100% to 1%.

90+ CRI w/3SDCM color accuracy

10W/ft. nominal power

Notes:

RGB requires an RGB DMX or DALI controller (by others)

RGBW requires an RGBW DMX or DALI contoller (by others)

All channels on one driver is standard, if isolating the White from the RGB channels is desired please consult factory.

RGB and RGBW are not recommended for tunable white applications.

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
RGB65	for DMX control w/6500K white

Add Suffix **DAL** for DALI Control to codes above.

5-CHANNEL TUNABLE WHITE AND COLOR

RGBWW = Red, Green, Blue, Warm White, Cool White.

Consult factory for RGBWW tunable white/color options.

[1]Consult factory for all tunable white tund tunable color options. Some drivers not integral to standard fixture housing.

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

Specifications

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

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

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

LEDS: Modules in 27/30/35/40 & 50K CCT, 80 CRI (90CRI available). Two, three and five channel White Tuning options available. Lumen maintenance minimum L_{70}= 50,000 hours. 3 SDCM color consistency. Zhaga™ compliant (Book 7). Field replaceable.

DRIVER: Standard 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). -20°C to +50°C operating range. FCC Title 47 Part 15 Class A electromagnetic compliance. <24dB Class A sound rating. Field replaceable.

MOUNTING: Typical 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 option with Flange).

FINISH: Fixture housing and steel components are 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. Inherently protected; suitable for insulated ceilings. Dry and damp location suitable. Union Made in the United States of America. I.B.E.W.