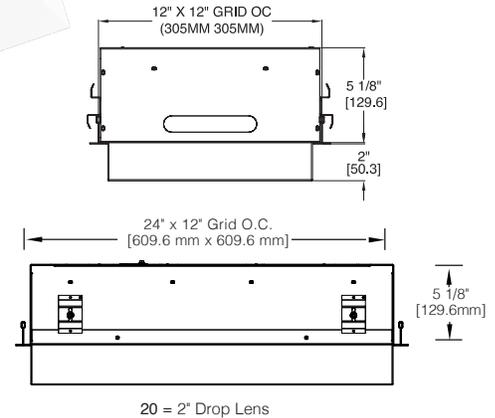
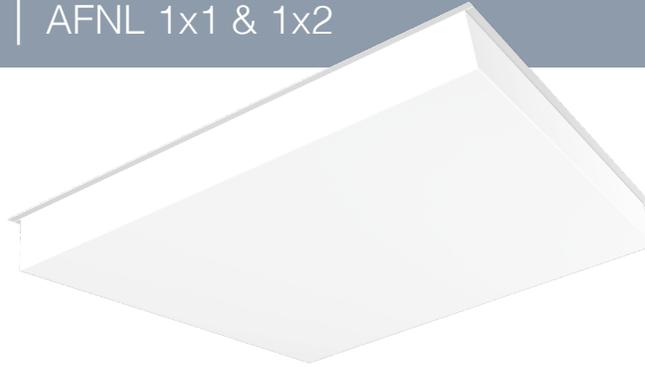




Affinity Series | AFNL 1x1 & 1x2

Date	Notes
Project	
Type	Qty



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	LUMENS ²	SIZE	MOUNTING ³	FINISH	OPTIONS
AFNL-D	SI						
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	1x1 LUMENS LO = 950 (10W, 97LPW) SO = 1265 (13W, 97LPW) HO = 1580 (16W, 97LPW) 1x2 LUMENS LO = 1900 (20W, 97LPW) SO = 2530 (26W, 97LPW) HO = 3160 (32W, 97LPW) For lens in flush lens position. See page 2 for performance at other lens depths. Consult factory for additional lumen packages.	11 = 1x1 12 = 1x2	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
	TUNABLE WHITE & COLOR¹ <u>2-Channel White</u> 2DIM10 = for 0-10V 2DALI = for DALI 2DMX = for DMX 2PSQ = for Lutron 2SNS = for Signify 2CAS = for Casambi <u>3-Channel White</u> 3DML = for DLM <u>3-Channel Color</u> RGB <u>4-Channel Color/White</u> RGBW <u>5-Channel Color/Warm White/Cool White</u> RGBWW						

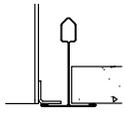
¹Tunable white, tunable color and RGB/W options detailed on page 3. Consult factory for tunable white options available for 1x1 and 1x2 configurations.

²Delivered 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. All values are nominal.

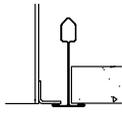
³See page 2 for ceiling mounting options details and full specifications.



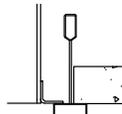
Mounting Options



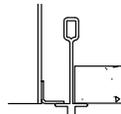
15/16" T-Bar (G)



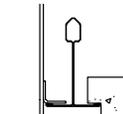
9/16" T-Bar (MG)



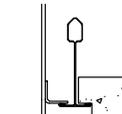
Slot Grid (SG)



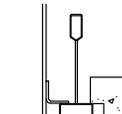
Interlude (XG)



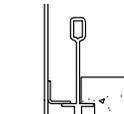
9/16" Tegular Flush (MTGF)



15/16" Tegular Flush (TGF)



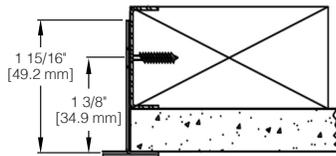
Slot Grid Flush (SGF)



Interlude Flush (XGF)

Drywall Ceiling

Mounting Detail



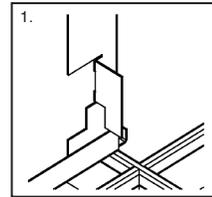
Flange Kit for drywall ceilings available:

- FK-11 for 1x1
- FK-12 for 1x2

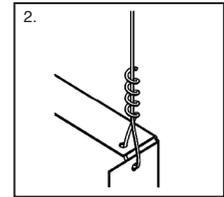
Grid Ceiling

Five-step Universal Installation Sequence.

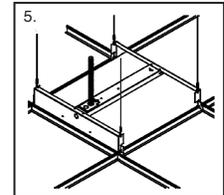
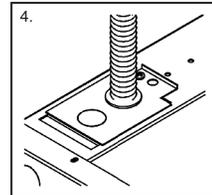
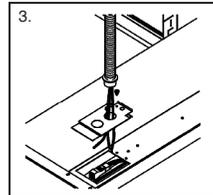
Complete Installation Instructions for grid and drywall ceiling types are available at: www.dayolite.com



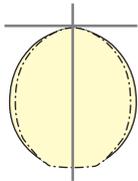
Position Fixture



Secure Tie Wire



Photometry



AFNL-D-00-40-SO-11 (flush lens)

CCT: 4000K
Watts: 13
Lumens: 1265
LPW: 97
Distribution: 100% Direct

AFNL-D-00-40-SO-12 (flush lens)

CCT: 4000K
Watts: 26
Lumens: 2530
LPW: 97
Distribution: 100% Direct

AFNL-D-20-40-SO-11 (2" lens drop)

CCT: 4000K
Watts: 13
Lumens: 1213
LPW: 93
Distribution: 100% Direct

AFNL-D-20-40-SO-12 (2" lens drop)

CCT: 4000K
Watts: 26
Lumens: 2426
LPW: 93
Distribution: 100% Direct

AFNL-D-50-40-SO-11 (5" lens drop)

CCT: 4000K
Watts: 13
Lumens: 1141
LPW: 88
Distribution: 100% Direct

AFNL-D-50-40-SO-12 (5" lens drop)

CCT: 4000K
Watts: 26
Lumens: 2282
LPW: 88
Distribution: 100% Direct

AFNL-D-70-40-SO-11 (7" lens drop)

CCT: 4000K
Watts: 13
Lumens: 1100
LPW: 85
Distribution: 100% Direct

AFNL-D-70-40-SO-12 (7" lens drop)

CCT: 4000K
Watts: 26
Lumens: 2200
LPW: 85
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. Within each of those specified settings there are additional field adjustments in 1/2" increments in the ranges shown below.

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

LENS	FIELD ADJUSTMENTS 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"

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 controller (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.

¹Consult factory for all tunable white and 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: LED modules¹ 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.