

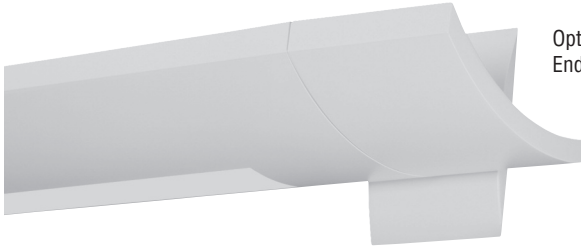


Date

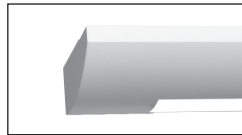
Project

Type

Comments



Optional Curved Endcap shown



Flat Endcap

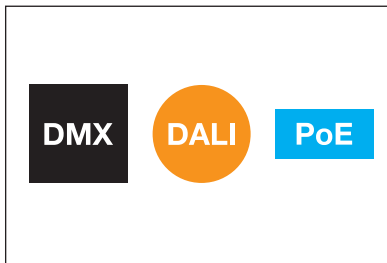
Diffuse Center Optic shown
Signal White is standard finish

Optional Standoff Mount shown

DESCRIPTION

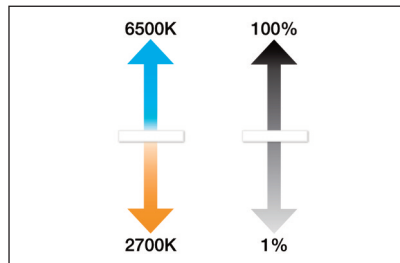
Series 12 LED is a luminaire with a classic curved shape and is available with 2 light engines. The luminaire uses mid-power LEDs for long life and enhanced performance. It is available with a standard flat endcap or an optional extended diecast aluminum endcap. This Product is enrolled in the International Living Future Institute (ILFI) Declare 2.0 Program and is third-party verified with options achieving Red List Approved and Declared status.

TUNABLE WHITE FEATURES



MULTIPLE CONTROL ARCHITECTURES

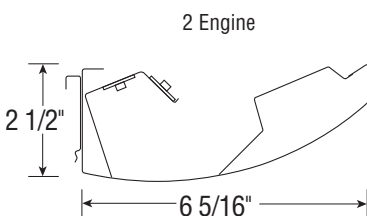
Qualified DMX, DALI (open and proprietary), or PoE (Power over Ethernet).



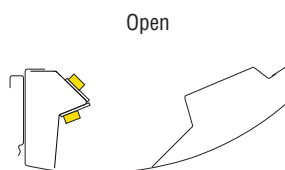
TUNABLE WHITE

Any CCT between 2700K and 6500K with excellent CRI and R9 values; dimming from 100% to 1%.

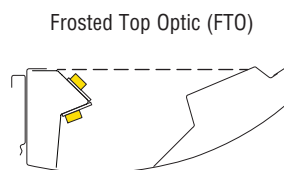
LIGHT ENGINE



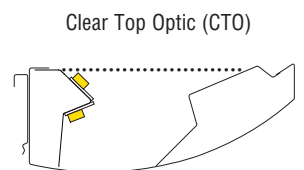
OPTIC OPTIONS



Open



Frosted Top Optic (FTO)

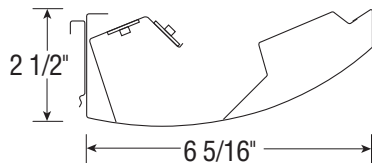


Clear Top Optic (CTO)

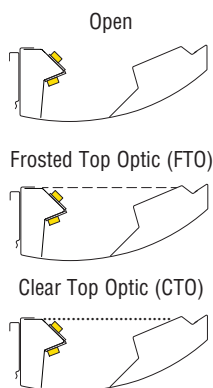
Tunable White Series 12 LED Wall Mount Indirect/Direct - 2E

2E FEATURES

DIMENSIONS & LIGHT ENGINE



OPTIC OPTIONS



Date _____

Project

Type

Comments

ORDERING GUIDE:

Sample Number: S12 LED WM ID - DCO - 8' - 2E - V - 8TW - OPEN - 91 - 120V - SC - SUR - FE - RLA

Series 12 LED WM ID
 Finelite **Series 12 LED WM ID**
 Shielding (**DCO**, **WCB**, **PLV**)
 Length / Pre-qualified Controls by Others (**4'**, **8'**, multiples standard)
 Light Engine System (**2E** - 2 Light Engine)
 Light Output (**B** - Boosted Standard, **V** - Very High)
 LED CRI/CCT (**8TW** - 80 CRI min, Tunable White; **9TW** - 90 CRI min, unable White. See below for Tunable White controls options)
 Optic (**OPEN** - standard, **FTO** - Frosted Top Optic, **CTO** - Clear Top Optic)
 91 Low Gloss White (**91**)
 Voltage (**120V**, **277V**)
 Circuiting (**SC** - Single Circuit)¹
 Mounting (**SUR** - Surface Mount (standard), **SO** - Standoff Mount, **MB** - Mounting Bracket)
 Endcap (**FE** - Flat Endcap (standard), **CE** - Curved Endcap)
 Integrated Sensors (**OBO** - Occupancy, **OBD** - Daylight, **W601** - Wattstopper Wireless Sensor², **OBE** - Enlighted³, **CLM** - Encelium Sensor, **RE7** - nLight Air Sensor, **AOCC-W** - Lutron Athena Sensor (Device Color White)⁴, **AOCC-B** - Lutron Athena Sensor (Device Color Black)⁴, **ARF-W** - Lutron Athena RF (Device Color White)⁴, **ARF-B** - Lutron Athena RF (Device Color Black)⁴)
 Special Options (**RLA** - Red List Approved, **RLD** - Declared Label)

¹Contact factory for switching options.

²LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected / LMFS-601 w/ DALI driver, only 1 driver can be connected.

³Enlightened components installed by Finelite, provided by others

⁴ Only available with DALI drivers - AOCC & ARF up to 4 drivers can be connected.

DMX drivers made by others choose one of the following feed lengths below. DMX Pendant Feed Length (5 ft., 12 ft., 30 ft.) _____

TUNABLE WHITE CONTROLS OPTIONS: SELECT ONE

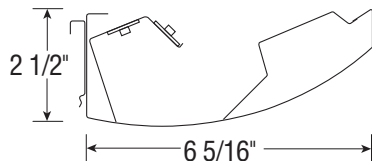
- ☐ Controls by others with pre-qualified DMX driver
- ☐ Controls by others with pre-qualified DALI driver
- ☐ Controls by Lutron with pre-qualified Lutron driver

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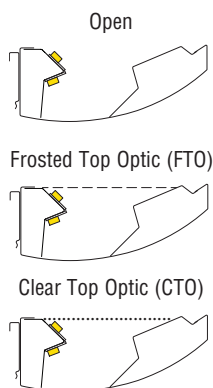
Tunable White Series 12 LED Wall Mount Indirect/Direct - 2E

2E FEATURES

DIMENSIONS & LIGHT ENGINE



OPTIC OPTIONS



Date _____

Project

Type

Comments

ORDERING GUIDE:

Sample Number: S12 LED WM ID - DCO - 8' - 2E - V - 8TW - OPEN - 120V - SC - SUR - FE - RLA

Series 12 LED WM ID

Finelite **Series 12 LED WM ID**

Shielding (**DCO**, **WCB**, **PLV**)

Length / Pre-qualified Controls by Others (**4'**, **8'**, multiples standard)

Light Engine System (**2E** - 2 Light Engine)

Light Output (**B** - Boosted Standard, **V** - Very High)

LED CRI/CCT (**8TW** - 80 CRI min, Tunable White; **9TW** - 90 CRI min, unable White.
See below for Tunable White controls options)

Optic (**OPEN** - standard, **FTO** - Frosted Top Optic, **CTO** - Clear Top Optic)

Voltage (**120V**, **277V**)

Circuiting (**SC** - Single Circuit)¹

Mounting (**SUR** - Surface Mount (standard), **SO** - Standoff Mount, **MB** - Mounting Bracket)

Endcap (**FE** - Flat Endcap (standard), **CE** - Curved Endcap)

Integrated Sensors (**OBO** - Occupancy, **OBD** - Daylight, **W601** - Wattstopper Wireless Sensor², **OBE** - Enlited³,
CLM - Encelium Sensor, **RE7** - nLight Air Sensor, **AOCC-W** - Lutron Athena Sensor (Device Color White)⁴,
AOCC-B - Lutron Athena Sensor (Device Color Black)⁴, **ARF-W** - Lutron Athena RF (Device Color White)⁴,
ARF-B - Lutron Athena RF (Device Color Black)⁴)

Special Options (**RLA** - Red List Approved, **RDL** - Declared Label)

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²LMFS-601 w/ 0-10V driver(s) and LMFI-111, up to 6 drivers may be connected / LMFS-601 w/ DALI driver, only 1 driver can be connected.

³Enlightened components installed by Finelite, provided by others

⁴ Only available with DALI drivers - AOCC & ARF up to 4 drivers can be connected.

DMX drivers made by others choose one of the following feed lengths below. DMX Pendant Feed Length (5 ft., 12 ft., 30 ft.) _____

TUNABLE WHITE CONTROLS OPTIONS: SELECT ONE

- ☐ Controls by others with pre-qualified DMX driver
- ☐ Controls by others with pre-qualified DALI driver
- ☐ Controls by Lutron with pre-qualified Lutron driver

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2E OPEN PHOTOMETRY - 4 ft. Luminaire



Series 12-LED-WM-ID-DCO-2E-V-835-OPEN

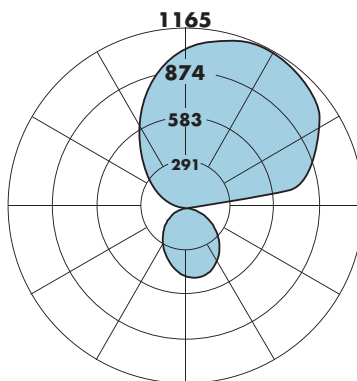
Distribution: 75% up / 25% down

Efficacy: 113 lumens per watt

Total Luminaire Output: 4624 lumens (1156 lumens/foot)
40.9 watts (10.2 watts/foot)

CCT: 3500K

ITL LM79 Report 85167



CANDLEPOWER SUMMARY						
	0.0	22.5	45.0	67.5	90.0	Flux
0	448	448	448	448	448	
5	457	456	454	450	445	42
15	454	452	446	435	423	119
25	421	420	413	399	384	175
35	366	365	359	347	330	203
45	297	296	292	283	269	203
55	221	220	219	214	204	177
65	144	143	145	142	138	130
75	70	70	72	73	72	71
85	12	12	13	15	16	17
90	1	1	1	0	0	
95	3	4	8	227	39	93
105	868	808	655	470	235	385
115	955	932	936	791	607	501
125	1090	1055	936	791	607	566
135	1120	1091	1004	916	757	578
145	1130	1114	1087	995	873	537
155	1164	1155	1119	1042	958	440
165	1145	1135	1112	1056	1013	286
175	1075	1071	1064	1057	1037	99
180	1040	1040	1040	1040	1040	

2E OPEN

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire		
	B*	V**
OPEN	2380	4624

Light Output, 3500K, 80 CRI (Lumens Per Foot)		
	B*	V**
OPEN	595	1156

Power, 3500K, 80 CRI (Watts Per Foot)		
	B*	V**
OPEN	5.1	10.2

Efficacy, 3500K, 80 CRI (Lumens Per Watt)		
	B*	V**
OPEN	117	113

* Family Correlation based on 4 ft. luminaire 3500K Very High Output (V) test - 120V.

** Based on ITL reports above.

B - Boosted Standard Output, V - Very High Output

Lumen Adjustment Factors - 80 CRI

2700K	0.968
3000K	0.985
3500K	1.000
4000K	1.032
6500K	1.032

Lumen Adjustment Factors - 90 CRI

2700K	0.731
3000K	0.746
3500K	0.760
4000K	0.789
6500K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

SAMPLE LUMEN ADJUSTMENT CALCULATION

Boosted Standard Output (B), 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output =
2380 lm x 0.789 = 1878 lm

Total Light Output per Foot =
595 lm/ft x 0.789 = 469 lm/ft

watts/foot = 5.1 W/ft

$$\text{Efficacy} = \frac{469 \frac{\text{lm}}{\text{ft}}}{5.1 \frac{\text{W}}{\text{ft}}} = 92 \text{ lm/W}$$

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SPECIFICATIONS

CONSTRUCTION: Body is 20-gauge die-formed steel with an 18-gauge die-formed internal joiner system. Plug-together wiring standard. All components are hard-tooled to tolerances of +/- 0.010".

ENDCAPS: The Flat Endcap (**FE**) is standard and made of 20-gauge die-formed steel adding 1/8" at each end. The optional Curved Endcap (**CE**) is an aluminum die-cast endcap with a 1/8" reveal adding 5.0" at each end.

OPTICS:

Open	Standard
FTO	Frosted Top Optic
CTO	Clear Top Optic

SHIELDING OPTIONS:

DCO Diffuse Center Optic, 73% transmissive, 99% diffusion.

WCB White Cross Baffle, 23 cell baffles, per 4-foot section spaced 1/2" apart and finished with 96% reflective white paint.

PLV Parabolic Louver, Semi-specular louvers with straight edges, spaced approximately 1-3/16" apart.

LIGHT OUTPUT: Two lumen packages available, Boosted Standard (**B**) and Very High (**V**). A separate chart summarizes lumen distribution and wattage. Light engines are replaceable.

LUMEN MAINTENANCE: 90% of initial light output (L90) at 100,000+ hours; 70% of initial light output (L70) at 200,000+ hours.

TUNABLE WHITE DRIVER: Replaceable LED driver. Driver is accessible from below the ceiling. 120/277V. Power Factor: ≥ 0.90. Total Harmonic Distortion (THD): < 20%. Dimming Range: 100 - 1%. Expected driver lifetime: 100,000 hours.

TUNABLE WHITE PRE-QUALIFIED DRIVERS BY OTHERS

DMX	DALI	POE set up	LUTRON
EldoLED	EldoLED	Contact Factory	LUTRON

NOTE: For a complete list of system option/limitations [please click here](#).

LUTRON DRIVER OPTIONS: LUT-ES1: Hi-lume 1% EcoSystem with Soft-On, Fade to Black dimming (LDE1 series); Contact factory for availability of discontinued Lutron drivers.

ELECTRICAL:

Emergency Option DMX: Battery backup only.

Emergency Option DALI: Battery backup, optional emergency-to-generator/inverter wiring

Emergency Option LUTRON: Battery backup, optional emergency-to-generator/inverter wiring.

Emergency Option PoE: Contact factory.

Battery Backup: Factory-choice battery pack available (8 ft. minimum fixture length). Backup batteries deliver 2392 lumens. A 4 ft. section will be illuminated in emergency mode. Backup battery will operate at 6500K in emergency.

MOUNTING: 50" Fully Adjustable (**FA**) plated steel aircraft cable with safety stop hardware standard. Contact factory for additional lengths up to 150". Optional semi-adjustable Aircraft Cable (**AC**) (± 0.5") in lengths of 12", 15", 18", 21", 24", 27", 30", 36".

DMX MOUNTING: For grid ceiling applications, the dual GridBox™ mounting is supplied (standard). For hard ceiling applications the ceiling mounting box is supplied (standard). For details, see Mounting Features (page 2). DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths. Available DMX pendant feed lengths are 5 ft., 12 ft., and 30 ft. (5 ft. standard.)

DMX INTERCONNECTION CABLES: Luminaires are prewired with plug-and-play interconnected cables to support easy plug-together joining of fixture runs. DMX to RJ45 adapters and an RJ45 terminator for every 32 DMX drivers are included.

FINISHES: Finelite Signal White (**SW**) powder coat, Finelite Black (**RAL 9005**) with semi gloss fine texture (**FB**), and Satin Aluminum (**SA**) are standard. Optional Adders: 179 RAL colors.¹

FEED: Standard with one 18-gauge single-circuit feed. 14-gauge feed used when fixture current exceeds 5 amps. DMX and power feed at same location (standard). DMX feeds cannot be cut or spliced. DMX feeds should be ordered based on fixed lengths.

LENGTHS: Standard 4 ft., and 8 ft., sections lengths can be combined to make longer runs.

LABELS: Fixture and electrical components are ETL listed conforming to UL 1598 in the U.S.A. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.130 (G), this luminaire contains an internal driver disconnect. UL 924 and UL 2108 - PoE options available on request. Damp Location. Finelite products use electronic components that are RoHS compliant, and the mechanical components of the luminaire have been verified to not knowingly contain any restricted substances listed per RoHS Directive 2015/863. Finelite makes the specification process easy when putting healthier products on your projects. Simply add – **RLA** (Red List Approved) or – **RLD** (Red List Declared Label) to your part number.

WEIGHT: With Flat Endcaps (**FE**) - 2.0 lb/ft; with Curved Endcaps (**CE**) - 2.6 to 3.6 lb/ft.

WARRANTY: 10-year performance-based warranty on all standard components. Qualified drivers by others and optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.

¹ 20 business days lead time for color