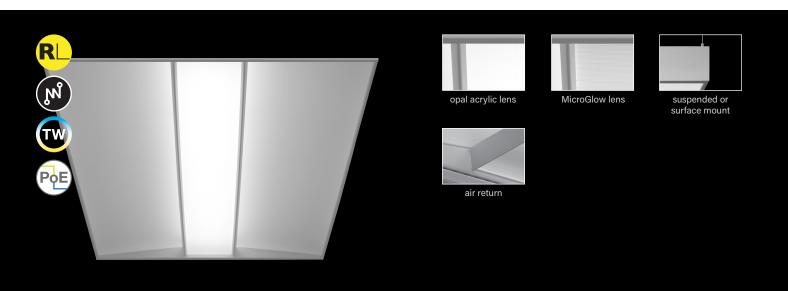
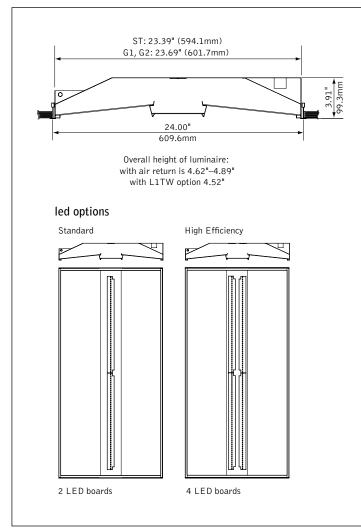
# Equation<sup>®</sup> 2 2x4





### **DIMENSIONAL DATA**



## FEATURES

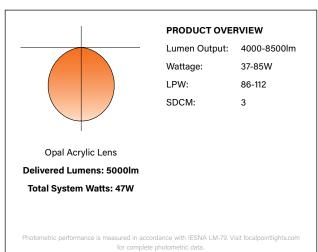
Equation" 2 blends sleek aesthetics with uniform diffuse illumination.

Center diffuser features MicroGlow prismatic lens for brightness control and visual comfort. Opal acrylic center lens may also be specified.

Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

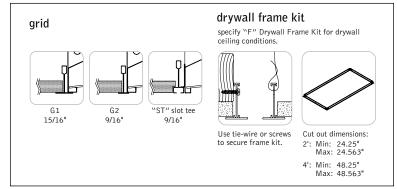
Connected Solutions: Integrates with wired and wireless building lighting control systems.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.



#### PERFORMANCE

#### MOUNTING INFORMATION



#### SPECIFICATIONS

#### LED System

Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 2700K, 3000K, 3500K, 4000K or Tunable White (2700K-6500K), with CRI>80 or CRI>90, 35D0CM. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. Contact factory for additional color temperature and CRI options. 0-10V dimming driver standard. LED modules and drivers are replaceable from below.

#### Construction

One piece 24 Ga. steel reflector and housing. Bottom access 24 Ga. steel driver compartment. Positional brackets supplied as standard. Standard weight: 27.3 lbs. Surface-mount/suspended weight: 35.5 lbs.

#### Optic

24 Ga. steel reflectors finished in matte satin white powder coat. 080" thick frosted white acrylic diffusers. Center shielding options include 080" thick opal acrylic lens or MicroGlow prismatic lens with optical filter overlay.

#### Electrical

Standard 120-277V driver includes 0-10V analog dimming. Power factor > .9. Optional Lutron EcoSystem or Step-dimming drivers available. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

#### Emergency

Emergency battery output—10 watts for 90 minutes. Emergency Circuit with Connected Solutions (DLM1, LMFS1, LMFSD, ENL1, CLM1, NXE1, WLXP) requires a UL924 compliant device, consult factory.

#### Labels

UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only.

#### Finish

Polyester powder coat applied over a multi-stage pre-treatment.

Lumen Maintenance								
Reported:	L70 at >61,000 hours	Calculated: L70 at 460,000 hours						
	L80 at >61,000 hours	L80 at 280,000 hours						
(Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.)								

#### Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

#### Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

#### STANDARD WHITE PERFORMANCE CHART

Lumen Output Sys		Tested System Watts	LPW	Lumen Output		Tested System Watts	LPW
4000	4000L	33	119	6000	6000LH	47	123
4000	4000LH	31	126	6500	6500LH	51	122
4500	4500L	39	112	7000	7000LH	55	121
4500	4500LH	34	129	7500	7500LH	59	120
5000	5000L	45	106	8000	8000LH	63	119
	5000LH	37	129	8500	8500LH	67	118
5500	5500L	51	106				
5500	5500LH	43	124				

Based on 3500K, 80 CRI, Opal Acrylic Lens. Lumen multipliers: 90+ CRI = 0.87, MicroGlow Prismatic Lens = 0.94. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

SI	ANDARD WHITE		
	Luminaire Series		FEQ2
	Equation 2	FEQ2	
	Nominal Size		24
	2' x 4'	24	
		27	
	Shielding		
	Opal Acrylic Lens	AC	
Micro	alow Prismatic Lens	MG	
	Lumen Output		
	4000 Lumens	4000L	
Standard	4500 Lumens	4500L	
Output	5000 Lumens	5000L	
	5500 Lumens	5500L	
1	4000 Lumens		
		4000LH	
	4500 Lumens	4500LH	
	5000 Lumens	5000LH	
	5500 Lumens	5500LH	
High	6000 Lumens	6000LH	
Efficiency	6500 Lumens	6500LH	
	7000 Lumens	7000LH	
	7500 Lumens	7500LH	
	8000 Lumens	8000LH	
	8500 Lumens	8500LH	
	Color Temperature		
2700K, 8	30+ CRI or 90+ CRI	27K <b>or</b> 927K	
	30+ CRI or 90+ CRI	30K or 930K	
	30+ CRI or 90+ CRI	35K or 935K	
	30+ CRI or 90+ CRI	40K or 940K	
10001() 0			1C
	Circuit		
	Single Circuit	1C	
	Voltage		
	UNV 120/277 Volt	UNV	
	347 Volt	347	
ner required for all o	drivers except LD1 and CLM1. Not available with EM)		
	Low Voltage	LV	
ntrol System	n & Dimming Level		
-	10V - 10% Dimming	LD1	
(Not Right Light	as standard, consult factory)	LDT	
C	-10V - 1% Dimming	L11	
Low Volta	ge, PoE compatible able with EM. LV Voltage only.)	LVN	
(No driver. Not avail	able with EM. LV Voltage only.)	1 111	
on HI-Lume	EcoSystem (LDE1) - 1% Dimming	LH1	
	Step Dimming	SD5	
Wattstopper	DLM - 1% Dimming (Not available with CP.)	DLM1	
14/	(Not available with CP.)		
	pper Fixture Sensor nsity – 1% Dimming	LMFS1	
		LMFSD	
High De	pper Fixture Sensor nsity – 1% Dimming	LIVII SD	
ted Smart Se	ensor - 1% Dimming	ENL1	
ncelium CLM	Connected Lighting	CLM1	
	odule - 1% Dimming		
rrent NX Ena	(Maximum 5500 Lumens) bled – 1% Dimming	NXE1	
	(INOT available with CP.)		
WaveLinx	Pro – 1% Dimming	WLXP	
	Mounting		
	24" Aircraft Cable	C24	
	48" Aircraft Cable	C48	
	96" Aircraft Cable	C96	
	Drywall Frame Kit	F	
(Not available with	CLM1, DLM1, NLT1 or NXE1.) ns: Min: 24.25"/Max: 24.563" Min: 48.25"/Max: 48.563")		
(Cut out dimensio	ns: Min: 24.25"/Max: 24.563" Min: 48.25"/Max: 48.563")		
	15/16" Grid	G1	
	9/16" Grid	G2	
	Slot Tee	ST	
	Surface Mount CLM1, DLM1, NLT1 or NXE1.)	SM	
(Not available with			
	Factory Options		
(0)	Air Return	AR	
(Overall height v	vith Air Return is 4.62"-4.89")	CD	
,	Not available with flex whip)	СР	
(	Emergency Battery	EM	
with	Integral Test Switch		
(	Cannot combine with 347V)		
New York Ci	ty Flex Whip (120V)	FNY1	
New York Ci	ty Flex Whip (277V)	FNY2	
	6' Flex Whip	FW	
	El si a la		\A/LI

STANDARD WHITE



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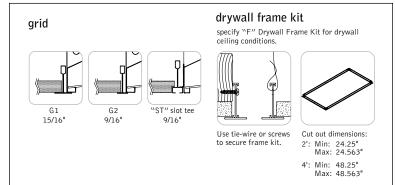
WH

Finish

Matte Satin White

WH

### MOUNTING INFORMATION



## TUNABLE WHITE PERFORMANCE CHART

Lumen Output		Delivered Lumens	Tested System Watts	LPW	
4000	4000L	3998	41	98	
4000	4000LH	4002	40	101	
4500	4500L	4497	46	98	
4500	4500LH	4510	45	101	
5000	5000L	5011	51	98	
5000	5000LH	5015	50	101	
5500	5500L	5517	61	91	
5500	5500LH	5517	59	94	
6000	6000LH	6061	64	95	
6500	6500LH	6512	67	98	
7000	7000LH	7006	71	98	
7500	7500LH	7519	77	98	
8000	8000LH	8006	82	98	
8500 8500LH		8512	86	99	

Based on 2700K, 80 CRI, Opal Acrylic Lens. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

#### **Lumen Multipliers**

Lumen Multipliers		Wattage Multipliers		
CRI	Multiplier	сст	Multiplier	
80+	1.00	2700K	1.00	
90+	0.89	3000K	0.92	
		3500K	0.88	
Shielding	Multiplier	4000K	0.86	
AC	1.00	5000K	0.85	
MG	0.94	5700K	0.87	
		6500K	0.90	

T W	UNABLE WHITE		FEQ2
	Equation 2	FEQ2	
	Nominal Size		24
	2' x 4'	24	
	Shielding		
	Opal Acrylic Lens	AC	
Micro	Glow Prismatic Lens	MG	
	4000 Lumens	4000L	
Standard	4500 Lumens	4000L 4500L	
Output	5000 Lumens	5000L	
	5500 Lumens	5500L	
	4000 Lumens	4000LH	
	4500 Lumens	4500LH	
	5000 Lumens	5000LH	
Lliab	5500 Lumens	5500LH	
High Efficiency	6000 Lumens 6500 Lumens	6000LH 6500LH	
Linciency	7000 Lumens	7000LH	
	7500 Lumens	7500LH	
	8000 Lumens	8000LH	
	8500 Lumens	8500LH	
	Color Temperature		
	700-6500K, 80+ CRI 700-6500K, 90+ CRI	2765T 92765T	
	Circuit	927031	1C
	Single Circuit	1C	
	Voltage	10	UNV
	UNV 120/277 Volt	UNV	
Control Syster	n & Dimming Level		
(Not available	0-10V - 1% Dimming with surface or cable mount. aire height increases to 4.52")	L1TW	
addresses, one for in	DALI - 1% Dimming rs DT6 control. It requires two tensity & one for CCT tuning. Extended lead time applies.)	D1TW	
	Mounting		
	le (Not available with L1TW)	C24	
	e (Not available with L1TW)	C48	
96" Aircraft Cab	le (Not available with L1TW)	C96	
(Cut out dimensio	Drywall Frame Kit ons: Min: 24.25"/Max: 24.563" Min: 48.25"/Max: 48.563")	F	
	15/16" Grid	G1	
	9/16" Grid Slot Tee	G2 ST	
Surface Mou	nt (Not available with L1TW)	SM	
	Factory Options		
	Air Return	AR	
(Overall height	with Air Return is 4.62"-4.89")		
	(Not available with flex whip)	СР	
	Emergency Battery Integral Test Switch	EM	
	ity Flex Whip (120V)	FNY1	
6' New York C	ity Flex Whip (277V)	FNY2	
	6' Flex Whip	FW	
	Finish		WH

тw

Matte Satin White WH

## CONSCIENTIONS

## Equation<sup>™</sup> 2 2x4

LED

Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally reconfigured through the application software. Daylight harvesting, occupancy sensing, integration with HVAC systems, and individual controls enable the monitoring and modulating of light levels and temperature in order to save energy, reduce costs and maximize occupants' comfort. All Connected Solutions luminaires require a compatible building control system.<sup>†</sup>

Connected Solution	Ordering Code	Model #**	Protocol	Compatible Networks*	Occupancy & Daylight	Temperature Reporting	Communication to Luminaire	Drivers
	<b>b</b> .						Wired	
	DLM1	LMFC-011	DLM	DLM	Enabled	No	8	Advance by Signify, Optotronic by eldoLED
WATTSTOPPER®	LMFS1	LMFS-601 & LMFI-111	DLM	DLM	Enabled	No	Wireless	Advance by Signify
	LMFSD	LMFS-601	Wireless				Wireless	Optotronic by eldoLED (Dexal)
COOPER Lighting Solutions	WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Enabled	No	Wireless (WaveLinx Pro Wireless Area Controller)	Advance by Signify
	L11	Specified Driver	0-10V	Crestron Zūm Wireless & SpaceBuilder	Enabled	No	Wired	Advance by Signify
	CLM1	ZBHA-CLM- DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	<b>Optotronic by eldoLED</b> Advance by Signify
	ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	Advance by Signify
	LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	Lutron Hi-Lume
LIGHTING CONTROLS	NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled	No	Wired	Optotronic by eldoLED

\*Not all compatible networks may be listed. \*\*For performance data and additional control system details please visit the connected solutions manufacturer websites. Primary drivers are listed in **bold.** To specify a particular driver please consult factory. †Controls systems supplied by others.