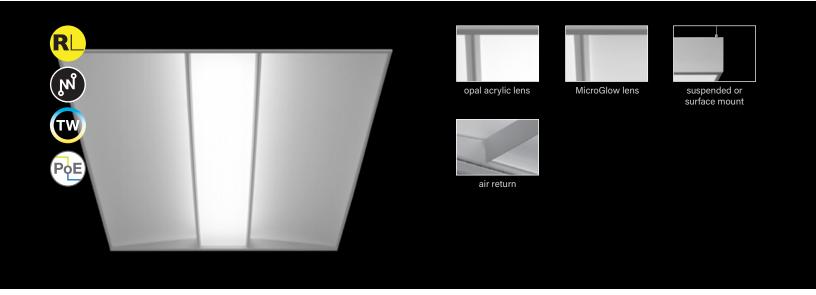
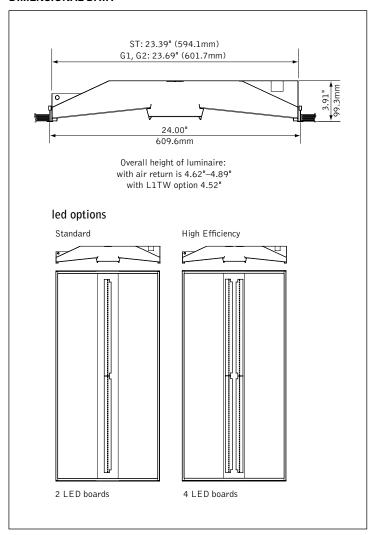
# Equation<sup>™</sup> 2 2x4





## **DIMENSIONAL DATA**



## **FEATURES**

Equation 2 blends sleek aesthetics with uniform diffuse illumination.

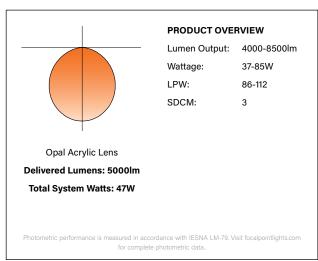
Center diffuser features MicroGlow prismatic lens for brightness control and visual comfort. Opal acrylic center lens may also be specified.

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

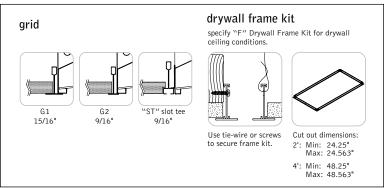
Connected Solutions: Integrates with wired and wireless building lighting control systems.

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, 3SDCM. 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

## Labels

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

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

## Lumen Maintenance

Calculated: L70 at 460,000 hours Reported: L70 at >61,000 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		Tested System Watts	LPW	Lumen Output		Tested System Watts	LPW
4000	4000L	33	119	6000	6000LH	47	123
	4000LH	31	126	6500	6500LH	51	122
4500	4500L	39	112	7000	7000LH	55	121
	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				
	5500LH	43	124				

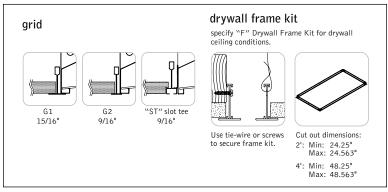
Based on 3500K, 80 CRI, Opal Acrylic Lens. Lumen multipliers: 90+ CRI = 0.87, MicroGlow Prismatic Lens = 0.94. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

ST	ANDARD WHITE		EEO2
	FEQ2 24		
	24		
	Shielding	A.C.	
Micro	Opal Acrylic Lens Glow Prismatic Lens	AC MG	
	Lumen Output		
	4000 Lumens	4000L	
Standard	4500 Lumens	4500L	
Output	5000 Lumens 5500 Lumens	5000L 5500L	
	5500 Lumens	3300L	
	4000 Lumens	4000LH	
	4500 Lumens	4500LH	
	5000 Lumens	5000LH	
1.05.00	5500 Lumens	5500LH	
High Efficiency	6000 Lumens 6500 Lumens	6000LH 6500LH	
Lincichey	7000 Lumens	7000LH	
	7500 Lumens	7500LH	
	8000 Lumens	8000LH	
	8500 Lumens	8500LH	
07001/	Color Temperature	071/ 0071/	
	80+ CRI <b>or</b> 90+ CRI 80+ CRI <b>or</b> 90+ CRI	27K or 927K 30K or 930K	
	80+ CRI or 90+ CRI	35K or 935K	
	80+ CRI or 90+ CRI	40K or 940K	
	Circuit		1C
	Single Circuit	1C	
	Voltage UNV 120/277 Volt	UNV	
	347 Volt	347	
(Transformer required for all	drivers except LD1 and CLM1. Not available with EM)		
	Low Voltage	LV	
	n & Dimming Level	LD4	
(Not Right Ligh	-10V - 10% Dimming that as standard, consult factory) 0-10V - 1% Dimming	LD1 L11	
	age, PoE compatible	LVN	
(No driver. Not avai	ilable with EM. LV Voltage only.) EcoSystem (LDE1) -	LH1	
Editori i i Edito	1% Dimming		
	Step Dimming	SD5	
	DLM - 1% Dimming (Not available with CP.)	DLM1	
Wattsto Low De	opper Fixture Sensor ensity – 1% Dimming	LMFS1	
Wattsto High De	ppper Fixture Sensor	LMFSD	
Enlighted Smart S	ensity – 1% Dimming ensor - 1% Dimming	ENL1	
	Connected Lighting	CLM1	
	odule - 1% Dimming (Maximum 5500 Lumens)	ND/E4	
	abled – 1% Dimming (Not available with CP)	NXE1	
WaveLin	x Pro – 1% Dimming	WLXP	
	Mounting 24" Aircraft Cable	C24	
	48" Aircraft Cable	C48	
	96" Aircraft Cable	C96	
	Drywall Frame Kit	F	
(Not available with (Cut out dimension	CLM1, DLM1, NLT1 or NXE1.) ons: Min: 24.25"/Max: 24.563" Min: 48.25"/Max: 48.563")		
	Min: 48.25"/Max: 48.563") 15/16" Grid	G1	
	9/16" Grid	G2	
	Slot Tee	ST	
(Not available with	Surface Mount CLM1, DLM1, NLT1 or NXE1.)	SM	
(NOT available with	Factory Options		
	Air Return	AR	
(Overall height	with Air Return is 4.62"-4.89")	CP	
	(Not available with flex whip)	CP	
	Emergency Battery	EM	
WILII	Integral Test Switch (Cannot combine with 347V)		
	ity Flex Whip (120V)	FNY1	
6' New York C	ity Flex Whip (277V)	FNY2	
	6' Flex Whip	FW	1441
	Finish Matte Satin White	WH	WH
	THE COURT WITH		



fixture: project

## MOUNTING INFORMATION



## **TUNABLE WHITE PERFORMANCE CHART**

Lumen Output		Delivered Lumens	· · · · · · · · · · · · · · · · · ·	
4000	4000L	3998	41	98
	4000LH	4002	40	101
4500	4500L	4497	46	98
	4500LH	4510	45	101
5000	5000L	5011	51	98
	5000LH	5015	50	101
5500	5500L	5517	61	91
	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

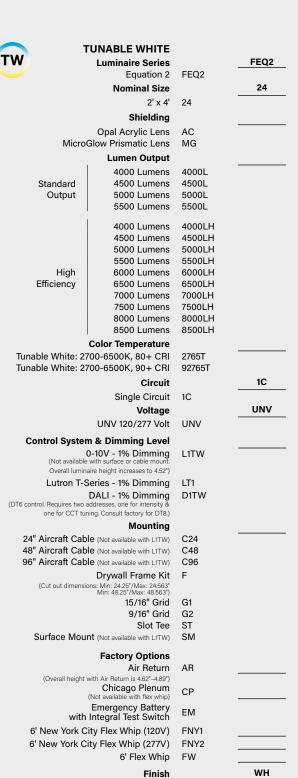
Based on 2700K, 80 CRI, Opal Acrylic Lens. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

## **Lumen Multipliers**

CRI	Multiplier					
80+	1.00					
90+	0.89					
Shielding	Multiplier					
AC	1.00					
MG	0.04					

## Wattage Multipliers

ССТ	Multiplier				
2700K	1.00				
3000K	0.92				
3500K	0.88				
4000K	0.86				
5000K	0.85				
5700K	0.87				
6500K	0.90				



Matte Satin White

WH



## Equation<sup>™</sup> 2 2x4

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
		LMFC-011	DLM	DLM	Enabled	No	Wired	Advance by Signify, Optotronic by eldoLED
	DLM1						503 000 000	
WATTSTOPPER°	LMFS1	LMFS-601 & LMFI-111	DLM	DLM	Enabled	No	Wireless -	Advance by Signify
	LMFSD	LMFS-601	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
@CRESTRON &	L11	Specified Driver	0-10V	Crestron Zūm Wireless & SpaceBuilder	Enabled	No	Wired	Advance by Signify
ENCELIUM	CLM1	ZBHA-CLM- DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	Optotronic by eldoLED Advance by Signify
€ Enlighted	ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	Advance by Signify
<b>ELUTRON</b>	LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	Lutron Hi-Lume
N LIGHTING CONTROLS	NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled	No	Wired	Optotronic by eldoLED

<sup>\*</sup>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.