

# Equation® 2 2x2

LED



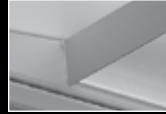
opal acrylic lens



MicroGlow lens

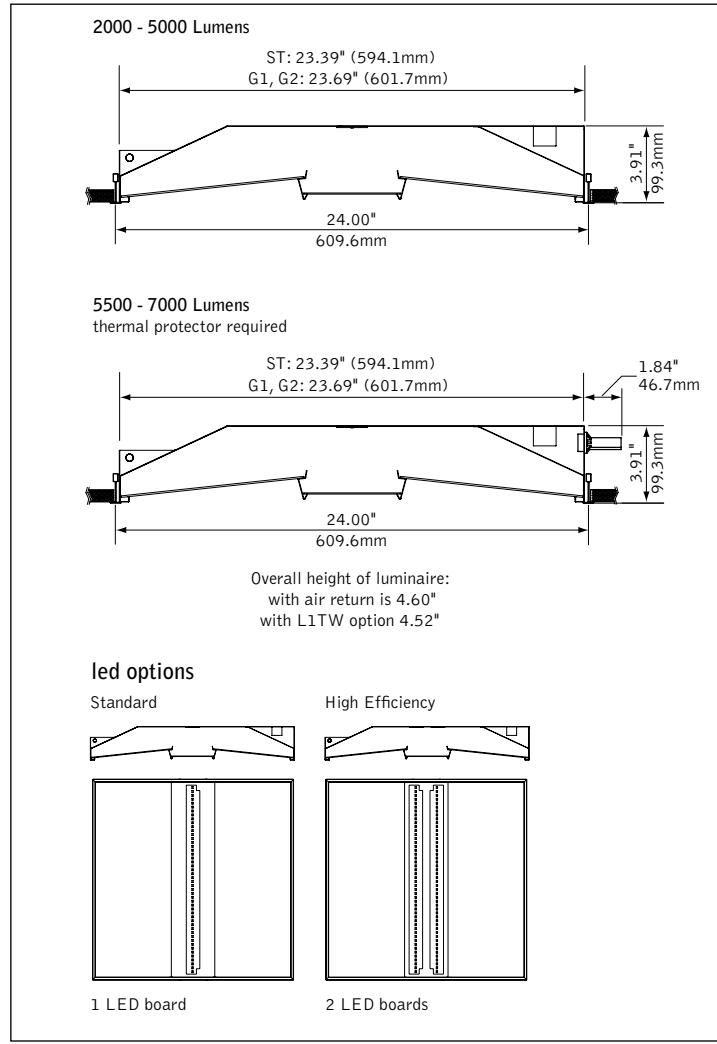


suspended or surface mount



air return

## DIMENSIONAL DATA



## FEATURES

Equation® 2 blends sleek aesthetics with uniform diffuse illumination.

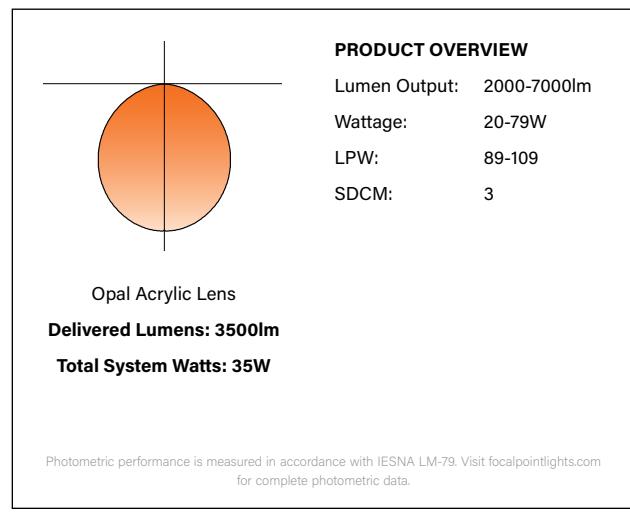
Center diffuser features MicroGlow prismatic lens for brightness control and visual comfort. Opal acrylic center lens may also be specified.

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.

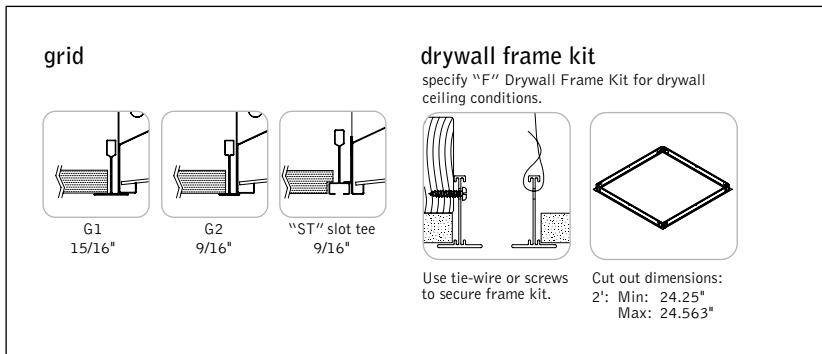
## PERFORMANCE



fixture:

project:

## MOUNTING INFORMATION



## STANDARD WHITE PERFORMANCE CHART

Lumen Output	Tested System Watts	LPW	Lumen Output	Tested System Watts	LPW
2000	2000L	18	4000	4000LH	106
	2500L	24	4500	4500LH	100
	2500LH	23	5000	5000LH	105
3000	3000L	30	5500	5500LH	97
	3000LH	27	6000	6000LH	107
	3500L	36	6500	6500LH	95
3500	3500LH	32	7000	7000LH	107

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%.

## STANDARD WHITE

## Luminaire Series

Equation 2

Nominal Size

2' x 2'

Shielding

Opal Acrylic Lens

MicroGlow Prismatic Lens

Lumen Output

Standard Output	2000 Lumens	2000L
	2500 Lumens	2500L
	3000 Lumens	3000L
	3500 Lumens	3500L

High Efficiency	2500 Lumens	2500LH
	3000 Lumens	3000LH
	3500 Lumens	3500LH
	4000 Lumens	4000LH
	4500 Lumens	4500LH

High Efficiency	5000 Lumens	5000LH
	5500 Lumens*	5500LH
	6000 Lumens*	6000LH
	6500 Lumens*	6500LH
	7000 Lumens*	7000LH

(\*Grid, Slot Tee Only)

## Color Temperature

2700K, 80+ CRI or 90+ CRI

3000K, 80+ CRI or 90+ CRI

3500K, 80+ CRI or 90+ CRI

4000K, 80+ CRI or 90+ CRI

## Circuit

Single Circuit

## Voltage

UNV 120/277 Volt

(Not available with 5500LH, 6000LH, 6500LH &amp; 7000LH)

120 Volt

277 Volt

347 Volt

## Transformer required for all drivers except LD1 and CLM1. Not available with EM.)

## Low Voltage

LV

## Control System &amp; Dimming Level

## 0-10V - 10% Dimming

(Not Right Light as standard, consult factory)

## 0-10V - 1% Dimming

Low Voltage, PoE compatible

(No driver. Not available with EM. LV Voltage only)

## Lutron Hi-Lume EcoSystem (LDE1) -

1% Dimming

DALI - 1% Dimming

Step Dimming

## Wattstopper DLM - 1% Dimming\*

(Not available with CP)

Wattstopper Fixture Sensor\*

Low Density - 1% Dimming

Wattstopper Fixture Sensor

High Density - 1% Dimming

## Lutron Athena Wireless Node\*

(0-10V standard. Consult factory for DALI)

## Lutron Athena Wireless Sensor\*

(0-10V standard. Consult factory for DALI)

## Acuity nLight - 1% Dimming\*

(Not available with CP)

## Encelium CLM Connected Lighting Module\*

- 1% Dimming

## Current NX Enabled - 1% Dimming\*

(Not available with CP)

## WaveLinx Pro - 1% Dimming\*

\*Not available with EM.

## Mounting

24" Aircraft Cable

48" Aircraft Cable

96" Aircraft Cable

## Drywall Frame Kit

(Not available with CLM1, DLM1, NLT1 or NXE1)

(Cut out dimensions: Min: 24.25"/Max: 24.563")

15/16" Grid

9/16" Grid

Slot Tee

## Surface Mount

(Not available with CLM1, DL M1, NLT1 or NXE1)

Consult factory for LAW1

## Factory Options

Air Return

(Overall height with Air Return is 4.62"-4.89")

## Chicago Plenum

(Not available with flex whip)

## Emergency Battery†

with Integral Test Switch

(Cannot combine with 347V)

Not available with 5500LH, 6000LH, 6500LH &amp; 7000LH)

6' New York City Flex Whip (120V)

6' New York City Flex Whip (277V)

6' Flex Whip

## Finish

Matte Satin White

WH

FEQ2

22

AC

MG

2000L

2500L

3000L

3500L

2500LH

3000LH

3500LH

4000LH

4500LH

5000LH

5500LH

6000LH

6500LH

7000LH

27K or 927K

30K or 930K

35K or 935K

40K or 940K

1C

LD1

L11

LVN

LH1

D11

SD5

DLM1

LMFS1

LMFSD

LAW1

LAWS

NLT1

CLM1

NXE1

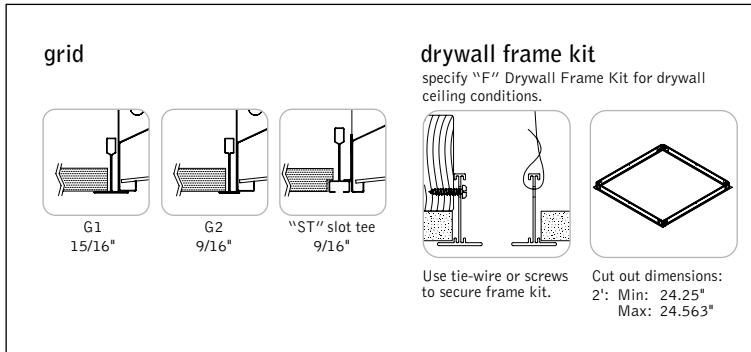
WLXP

WH

fixture:

project:

## MOUNTING INFORMATION



## TUNABLE WHITE PERFORMANCE CHART

Lumen Output	Delivered Lumens	Tested System Watts	LPW
2000	2000L	2001	24
2500	2500L	2508	30
	2500LH	2510	29
3000	3000L	2999	37
	3000LH	3000	34
3500	3500L	3511	43
	3500LH	3503	39
4000	4000LH	3999	45
4500	4500LH	4508	51
5000	5000LH	5008	61
5500	5500LH	5501	68
6000	6000LH	6003	74
6500	6500LH	6516	81

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

## Lumen Multipliers

CRI	Multiplier	CCT	Multiplier
80+	1.00	2700K	1.00
90+	0.89	3000K	0.92
		3500K	0.88
<b>Shielding</b>	<b>Multiplier</b>	4000K	0.86
AC	1.00	5000K	0.85
MG	0.94	5700K	0.87
		6500K	0.90

## Wattage Multipliers

## TUNABLE WHITE

Luminaire Series

Equation 2

Nominal Size

2' x 2'

FEQ2

FEQ2

22

Shielding

Opal Acrylic Lens

MicroGlow Prismatic Lens

AC

MG

FEQ2

## 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: 15.4 lbs. Surface-mount/suspended weight: 19 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 DALI, 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, LAW1, LAWS, NLT1, 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 190,000 hours
L80 at >61,000 hours	L80 at 115,000 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.

# Declare.

## Equation® 2 Focal Point, LLC

Final Assembly: Chicago, Illinois, USA

Life Expectancy: 10 Year(s)

End of Life Options: Recyclable (55%), Landfill (45%)

### Ingredients:

UNS G1008; Polymethyl methacrylate; Steel, carbon; Small Electrical Components - RoHS Compliant<sup>1</sup>; Copper; Steel; Polyvinyl chloride; Poly[imino(1,6-dioxo-1,6-hexanediy)imino-1,6-hexanediy]; Methyl methacrylate; Benzene, ethenyl-, homopolymer, brominated; Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE); Steel manufacture, chemicals

<sup>1</sup>LBC Temp Exception RL-002 - Small Electrical Components

### Living Building Challenge Criteria:

#### I-13 Red List:

LBC Red List Free % Disclosed: 100% at 100ppm  
 LBC Red List Approved VOC Content: Not Applicable  
 Declared

I-10 Interior Performance: Not Applicable

I-14 Responsible Sourcing: Not Applicable

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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>legrand</b> <small>WATTSTOPPER®</small>	DLM1	LMFC-011	DLM	DLM	Enabled <sup>1</sup>	No	Wired	<b>Advance by Signify</b> , Optotronic by eldoLED	
	LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Integrated <sup>2</sup>	No	Wireless		
	LMFSD	LMFS-601							
	WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Integrated <sup>2</sup>	No	Wireless (WaveLinx Pro Wireless Area Controller)	<b>Advance by Signify</b>	
	D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled <sup>1</sup>	No	Wired	eldoLED ECodrive	
	L11		0-10V					<b>Advance by Signify</b>	
	CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled <sup>1</sup>	No	Wireless	<b>Optotronic by eldoLED</b> Advance by Signify	
	LAW1	A-WN-D01-RF-WH	0-10V DALI <sup>4</sup>	Athena Wireless	Enabled <sup>1</sup>	No	Wireless	<b>Advance by Signify</b>	
	LAWS	A-WN-D01-OCC-WH	0-10V DALI <sup>4</sup>	Athena Wireless	Integrated <sup>2</sup>	No	Wireless	<b>Advance by Signify</b>	
	LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled <sup>1</sup>	No	Wired	<b>Lutron Hi-Lume</b>	
	NLT1	nEPS-60-IO	nLight	nLight	Enabled <sup>1</sup>	No	Wired	eldoLED ECodrive, eldoLED SOLOdrive	
	NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled <sup>1</sup>	No	Wired		

\*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.

<sup>†</sup>Controls systems supplied by others. <sup>‡</sup>Enabled: Fixture supplied with a Node/ Controller. Sensor to be provided by others. <sup>‡</sup>Integrated: Fixture supplied with an installed Sensor. <sup>4</sup>0-10V standard with Lutron Athena options, consult factory for DALI.