Equation® 2 2x2

LED

FOCAL POINT®

opal acrylic lens

MicroGlow lens

suspended or surface mount
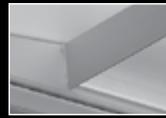
air return

DIMENSIONAL DATA

2000 - 5000 Lumens

ST: 23.39" (594.1mm)
G1, G2: 23.69" (601.7mm)

3.91" / 99.3mm

24.00"
609.6mm

5500 - 7000 Lumens
thermal protector required

ST: 23.39" (594.1mm)
G1, G2: 23.69" (601.7mm)

1.84" / 46.7mm

3.91" / 99.3mm

24.00"
609.6mm

Overall height of luminaire:
with air return is 4.60"
with L1TW option 4.52"

led options

Standard

High Efficiency

1 LED board

2 LED boards
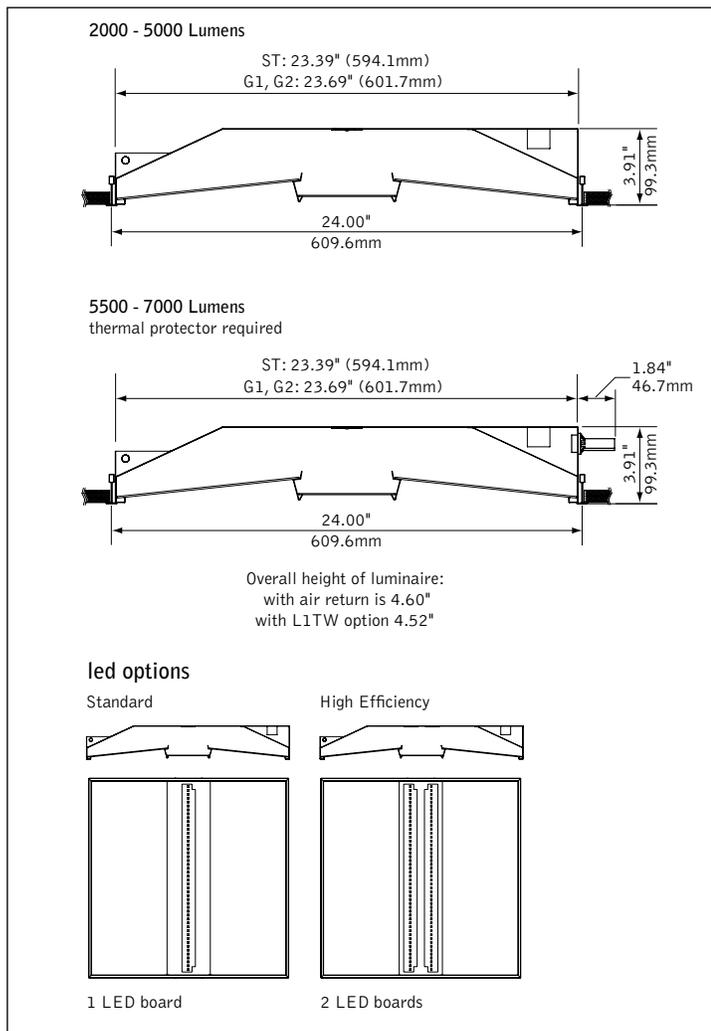
FEATURES

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
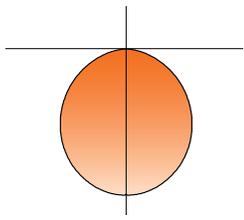
PRODUCT OVERVIEW

Lumen Output:	2000-7000lm
Wattage:	20-79W
LPW:	89-109
SDCM:	3

Opal Acrylic Lens

Delivered Lumens: 3500lm

Total System Watts: 35W

Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data.

MOUNTING INFORMATION

grid

G1
15/16"

G2
9/16"

"ST" slot tee
9/16"

drywall frame kit

specify "F" Drywall Frame Kit for drywall
ceiling conditions.

Use tie-wire or screws
to secure frame kit.

Cut out dimensions:
2': Min: 24.25"
Max: 24.563"

STANDARD WHITE PERFORMANCE CHART

Lumen Output		Tested System Watts	LPW	Lumen Output		Tested System Watts	LPW
2000	2000L	18	106	4000	4000LH	37	105
2500	2500L	24	100	4500	4500LH	43	103
	2500LH	23	105	5000	5000LH	49	100
3000	3000L	30	97	5500	5500LH	56	94
	3000LH	27	107	6000	6000LH	63	95
3500	3500L	36	95	6500	6500LH	71	92
	3500LH	32	107	7000	7000LH	79	89

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		**FEQ2**
Equation 2	FEQ2	
Nominal Size		**22**
2' x 2'	22	
Shielding		
Opal Acrylic Lens	AC	
MicroGlow Prismatic Lens	MG	
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	
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	27K **or** 927K	
3000K, 80+ CRI **or** 90+ CRI	30K **or** 930K	
3500K, 80+ CRI **or** 90+ CRI	35K **or** 935K	
4000K, 80+ CRI **or** 90+ CRI	40K **or** 940K	
Circuit		**1C**
Single Circuit	1C	
Voltage		
UNV 120/277 Volt	UNV	

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

120 Volt	120	
277 Volt	277	
347 Volt	347	

(Transformer required for all drivers except LD1 and WSPC.
Not available with EM.)

Low Voltage	LV	
Control System & Dimming Level		
0-10V - 10% Dimming	LD1	

(Not Right Light as standard, consult factory)

0-10V - 1% Dimming	L11	
Low Voltage, PoE compatible	LVN	

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

Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
DALI - 1% Dimming	D11	
Step Dimming	SD5	
Wattstopper PLUS:* Connected Light Module	WSPC	

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

Wattstopper PLUS:* SensiLUM Wireless Sensor	WSPS	

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

Lutron Athena Wireless Node*	LAW1	

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

Lutron Athena Wireless Sensor*	LAWS	

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

Acuity nLight - 1% Dimming*	NLT1	

(Not available with CP.)

Current NX Enabled – 1% Dimming*	NXE1	

(Not available with CP.)

WaveLinx Pro – 1% Dimming*	WLXP	

*Not available with EM.

Mounting		
24" Aircraft Cable	C24	
48" Aircraft Cable	C48	
96" Aircraft Cable	C96	
Drywall Frame Kit	F	

(Not available with WSPC, NLT1 or NXE1.)
(Cut out dimensions: Min: 24.25"/Max: 24.563")

15/16" Grid	G1	
9/16" Grid	G2	
Slot Tee	ST	
Surface Mount	SM	

(Not available with WSPC, NLT1 or NXE1.
Consult factory for LAW1.)

Factory Options		
Air Return	AR	

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

Chicago Plenum	CP	

(Not available with flex whip)

Emergency Battery† with Integral Test Switch	EM	

(Cannot combine with 347V
Not available with 5500LH, 6000LH, 6500LH & 7000LH)

6' New York City Flex Whip (120V)	FNY1	
6' New York City Flex Whip (277V)	FNY2	
6' Flex Whip	FW	
Finish		**WH**
Matte Satin White	WH	

QS 5/10 DAY

Options in orange qualify for the Quickship program. 5-day up to 100
pieces, 10-day up to 300 pieces. Emergency Battery is 10-day only.
Refer to Quickship Guide for complete details.

MOUNTING INFORMATION

grid

| G1 15/16" | G2 9/16" | "ST" slot tee 9/16" |

drywall frame kit

specify "F" Drywall Frame Kit for drywall ceiling conditions.

Use tie-wire or screws to secure frame kit.

Cut out dimensions:
2': Min: 24.25"
    Max: 24.563"

TUNABLE WHITE PERFORMANCE CHART

Lumen Output		Delivered Lumens	Tested System Watts	LPW
2000	2000L	2001	24	82
2500	2500L	2508	30	83
	2500LH	2510	29	85
3000	3000L	2999	37	81
	3000LH	3000	34	89
3500	3500L	3511	43	81
	3500LH	3503	39	89
4000	4000LH	3999	45	89
4500	4500LH	4508	51	89
5000	5000LH	5008	61	83
5500	5500LH	5501	68	81
6000	6000LH	6003	74	81
6500	6500LH	6516	81	81

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	0.94

Wattage Multipliers

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

TW

TUNABLE WHITE

Luminaire Series			**FEQ2**
Equation 2	FEQ2		
Nominal Size			**22**
2' x 2'	22		
Shielding			___
Opal Acrylic Lens	AC		
MicroGlow Prismatic Lens	MG		
Lumen Output			___

	Standard		
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	
	5000 Lumens	5000LH	
	5500 Lumens*	5500LH	
	6000 Lumens*	6000LH	
	6500 Lumens*	6500LH	
	(*Grid, Slot Tee Only)		

Color Temperature		___
Tunable White: 2700-6500K, 80+ CRI	2765T	
Tunable White: 2700-6500K, 90+ CRI	92765T	
Circuit		**1C**
Single Circuit	1C	
Voltage		___
UNV 120/277 Volt (5000 Lumens max.)	UNV	
120 Volt	120	
277 Volt	277	

Control System & Dimming Level ___

0-10V - 1% Dimming L1TW
(Not available with surface or cable mount. Overall luminaire height increases to 4.52")

DALI - 1% Dimming D1TW
(Default driver offers DT6 control. It requires two addresses, one for intensity & one for CCT tuning. Consult factory for DT8. Extended lead time applies.)

Mounting ___

24" Aircraft Cable (Not available with L1TW)	C24
48" Aircraft Cable (Not available with L1TW)	C48
96" Aircraft Cable (Not available with L1TW)	C96
Drywall Frame Kit (Cut out dimensions: Min: 24.25"/Max: 24.563")	F
15/16" Grid	G1
9/16" Grid	G2
Slot Tee	ST
Surface Mount (Not available with L1TW)	SM

Factory Options ___

Air Return (Overall height with Air Return is 4.62"–4.89")	AR
Chicago Plenum (Not available with flex whip)	CP
Emergency Battery with Integral Test Switch (4500 Lumen max.)	EM
6' New York City Flex Whip (120V)	FNY1
6' New York City Flex Whip (277V)	FNY2
6' Flex Whip	FW

Finish		**WH**
Matte Satin White	WH	

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 (WSPC, WSPS, LAW1, LAWS, NLT1, 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 G10080 Steel Alloy; Polymethyl methacrylate; Small Electrical Components - RoHS Compliant[1]; Copper; Polyvinyl chloride; Poly[imino(1,6-dioxo-1,6- hexanediyl)imino-1,6-hexanediyl]; Methyl methacrylate; Benzene, ethenyl-, homopolymer, brominated; Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE); Steel manufacture, chemicals

[1]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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MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
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Equation® 2 2x2
LED

Focal Point provides broad flexibility through compatibility with a wide range of indoor lighting control systems. A variety of sensors, nodes, controllers, and drivers can be specified to scale the system and meet the needs of each application across both wired and wireless networks.

Features such as daylight harvesting, occupancy sensing, dimming, and switching help save energy, reduce costs, and enhance occupant comfort. All Connected Solutions luminaires require a compatible building control system.

Controls systems supplied by others. For performance data and additional control system details, please visit the connected solutions manufacturers websites.

Connected Solution	Ordering Code	Model #	Protocol	Compatible Networks (Not all compatible networks may be listed.)	Description	Occupancy & Daylight	Communication to Luminaire	Drivers (Primary drivers are listed in **bold**. To specify a particular driver please consult factory.)	Driver Type
legrand® WATTSTOPPER®									
	WSPC	EN-ZBHA-CLM-DIM	ZigBee	Wattstopper PLUS	Node	Enabled†	Wireless	**Advance by Signify**	0-10V standard, consult factory for DALI
	WSPS	EN-CLM-PIR-DD-ZB	ZigBee	Wattstopper PLUS	Sensor	Integrated*	Wireless	**Advance by Signify**	0-10V standard, consult factory for DALI
COOPER Lighting Solutions									
	WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Sensor	Integrated*	Wireless (WaveLinx Pro Wireless Area Controller)	**Advance by Signify**	**0-10V**
Current®									
	NXE1	NXFM2-LV	NX	NX Distributed Intelligence	Controller	Enabled†	Wired	**Optotronic by eldoLED**	0-10V
LUTRON									
	LAW1	A-WN-D01-RF-WH	Clear Connect	Athena Wireless	Node	Enabled†	Wireless	**Advance by Signify**	0-10V standard, consult factory for DALI
	LAWS	A-WN-D01-OCC-WH	Clear Connect	Athena Wireless	Sensor	Integrated*	Wireless	**Advance by Signify**	0-10V standard, consult factory for DALI
nLIGHT									
	NLT1	nEPS-60-IO	nLight	nLight	Controller	Enabled†	Wired	**eldoLED ECOdrive,** eldoLED SOLOdrive	0-10V

†Enabled: Luminaire supplied with a node/controller. Sensor to be provided by others.

*Integrated: Luminaire supplied with an installed sensor.