

Equation[®] 2 2x4

LED



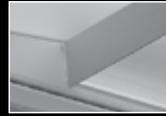
opal acrylic lens



MicroGlow lens

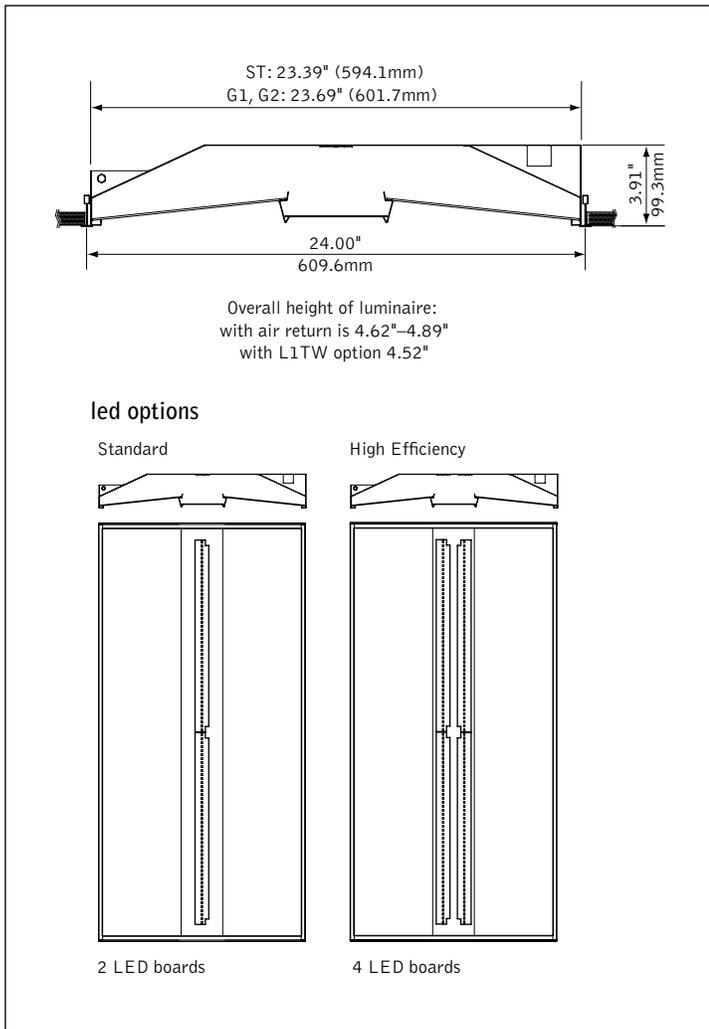


suspended or surface mount



air return

DIMENSIONAL DATA



FEATURES

Equation[®] 2 blends sleek aesthetics with uniform diffuse illumination.

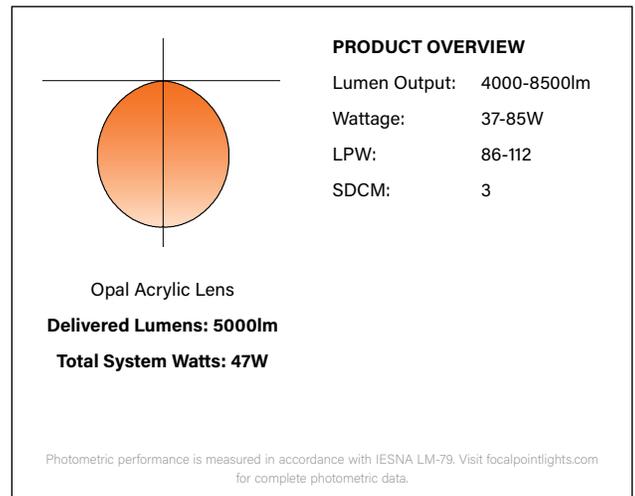
Center diffuser features MicroGlow prismatic lens for brightness control and visual comfort. Opal acrylic center lens may also be specified.

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

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"
4': Min: 48.25"
Max: 48.563"

STANDARD WHITE PERFORMANCE CHART

Lumen Output	Tested System Watts	LPW	Lumen Output	Tested System Watts	LPW
4000	4000L	33	6000	6000LH	47
	4000LH	31	6500	6500LH	51
4500	4500L	39	7000	7000LH	55
	4500LH	34	7500	7500LH	59
5000	5000L	45	8000	8000LH	63
	5000LH	37	8500	8500LH	67
5500	5500L	51			
	5500LH	43			

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	24
	2' x 4'	24
	Shielding	
	Opal Acrylic Lens	AC
	MicroGlow Prismatic Lens	MG
	Lumen Output	
Standard Output	4000 Lumens	4000L
	4500 Lumens	4500L
	5000 Lumens	5000L
	5500 Lumens	5500L
High Efficiency	4000 Lumens	4000LH
	4500 Lumens	4500LH
	5000 Lumens	5000LH
	5500 Lumens	5500LH
	6000 Lumens	6000LH
	6500 Lumens	6500LH
	7000 Lumens	7000LH
	7500 Lumens	7500LH
	8000 Lumens	8000LH
	8500 Lumens	8500LH
	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
	347 Volt	347
	<small>(Transformer required for all drivers except LD1 and WSPC. Not available with EM)</small>	
	Low Voltage	LV
	Control System & Dimming Level	
	0-10V - 10% Dimming <small>(Not Right Light as standard, consult factory)</small>	LD1
	0-10V - 1% Dimming	L11
	Low Voltage, PoE compatible <small>(No driver. Not available with EM. LV Voltage only.)</small>	LVN
	Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1
	Step Dimming	SD5
	Wattstopper PLUS:	WSPC
	Connected Light Module <small>(Max. 5500 Lumens. 0-10V standard. Consult factory for DALI.)</small>	
	Wattstopper PLUS:	WSPS
	SensiLUM Wireless Sensor <small>(0-10V standard. Consult factory for DALI.)</small>	
	Lutron Athena Wireless Node <small>(0-10V standard. Consult factory for DALI.)</small>	LAW1
	Lutron Athena Wireless Sensor <small>(0-10V standard. Consult factory for DALI.)</small>	LAWS
	Current NX Enabled - 1% Dimming <small>(Not available with CP.)</small>	NXE1
	WaveLinx Pro - 1% Dimming	WLXP
	Mounting	
	24" Aircraft Cable	C24
	48" Aircraft Cable	C48
	96" Aircraft Cable	C96
	Drywall Frame Kit <small>(Not available with WSPC, NL1 or NXE1) (Cut out dimensions: Min: 24.25"/Max: 24.563" Min: 48.25"/Max: 48.563")</small>	F
	15/16" Grid	G1
	9/16" Grid	G2
	Slot Tee	ST
	Surface Mount <small>(Not available with WSPC, NL1 or NXE1. Consult factory for LAW1.)</small>	SM
	Factory Options	
	Air Return <small>(Overall height with Air Return is 4.62"-4.89")</small>	AR
	Chicago Plenum <small>(Not available with flex whip)</small>	CP
	Emergency Battery [†] <small>(Cannot combine with 347V)</small>	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



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"
4': Min: 48.25"
Max: 48.563"

TUNABLE WHITE PERFORMANCE CHART

Lumen Output		Delivered Lumens	Tested System Watts	LPW
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	0.94

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



TUNABLE WHITE

Luminaire Series

Equation 2 FEQ2

Nominal Size

2' x 4' 24

Shielding

Opal Acrylic Lens AC
MicroGlow Prismatic Lens MG

Lumen Output

Standard Output	Lumen Output	Code
Standard Output	4000 Lumens	4000L
	4500 Lumens	4500L
	5000 Lumens	5000L
	5500 Lumens	5500L
High Efficiency	4000 Lumens	4000LH
	4500 Lumens	4500LH
	5000 Lumens	5000LH
	5500 Lumens	5500LH
	6000 Lumens	6000LH
	6500 Lumens	6500LH
	7000 Lumens	7000LH
	7500 Lumens	7500LH
	8000 Lumens	8000LH
	8500 Lumens	8500LH

Color Temperature

Tunable White: 2700-6500K, 80+ CRI 2765T
Tunable White: 2700-6500K, 90+ CRI 92765T

Circuit

Single Circuit 1C

Voltage

UNV 120/277 Volt UNV

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 F
(Cut out dimensions: 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 (Not available with L1TW) SM

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
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: 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 (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 Compliant¹; Copper; **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

¹LBC Temp Exception RL-002 - Small Electrical Components

Living Building Challenge Criteria:

I-13 Red List:

<input type="checkbox"/> LBC Red List Free	% Disclosed: 100% at 100ppm
<input type="checkbox"/> LBC Red List Approved	VOC Content: Not Applicable
<input checked="" type="checkbox"/> Declared	

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Not Applicable

FPL-0004
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MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

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
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
	WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Sensor	Integrated [*]	Wireless (WaveLinx Pro Wireless Area Controller)	Advance by Signify	0-10V
	NXE1	NXFM2-LV	NX	NX Distributed Intelligence	Controller	Enabled [†]	Wired	Optotronic by eldoLED	0-10V
	LAW1	A-WN-D01-RF-WH	Clear Connect	Athena Wireless	Node	Enabled [†]	Wireless	Advance by Signify	0-10V standard, consult factory for DALI
	LAW5	A-WN-D01-OCC-WH	Clear Connect	Athena Wireless	Sensor	Integrated [*]	Wireless	Advance by Signify	0-10V standard, consult factory for DALI

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

^{*}Integrated: Luminaire supplied with an installed sensor.