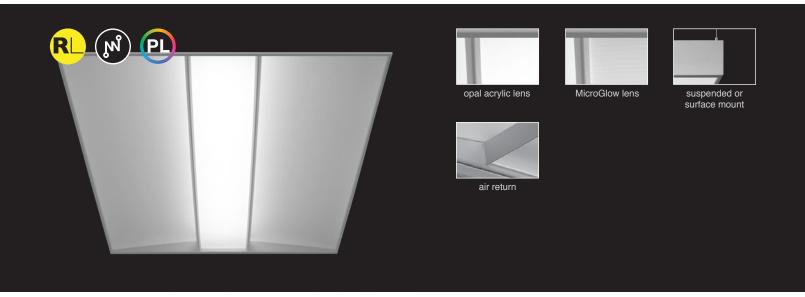
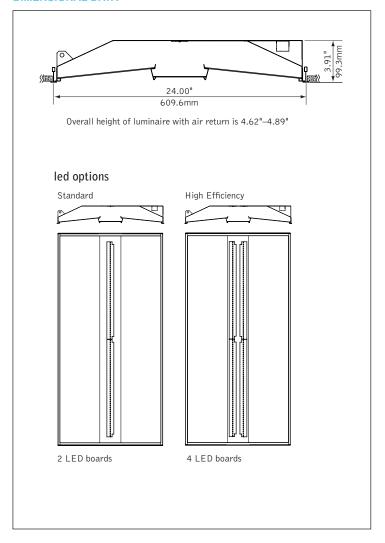
# Equation<sup>™</sup> 2 2x4





#### **DIMENSIONAL DATA**



#### **FEATURES**

Equation™ 2 blends sleek aesthetics with uniform diffuse illumination.

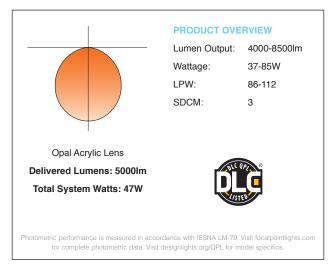
Center diffuser features MicroGlow prismatic lens for brightness control and visual comfort. Opal acrylic center lens may also be specified.

Premium LEDs operate efficiently to achieve excellent thermal management and reliable operation.

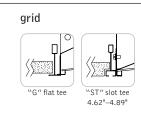
Connected Solutions: Integrates with wired and wireless building lighting control systems.

Preferred Light: Lighting for better color rendition and human preference.

#### **PERFORMANCE**



#### **MOUNTING INFORMATION**



#### 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"

#### **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 or 4000K with CRI>80 or CRI>90, 3SDCM. 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.

#### **Emergency Battery**

Bodine BSL310-CAN. Emergency output-10 watts for 90 minutes.

#### 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 280,000 hours L80 at >61,000 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.

#### **PERFORMANCE CHART**

Delivere	d Lumens	Tested System Watts	LPW	
4000 Lumens	4000L	41	97	
	4000LH	37	112	
4500 Lumens	4500L	47	94	
	4500LH	42	110	
5000 Lumens	5000L	54	90	
	5000LH	47	108	
5500 Lumens	5500L	61	86	
	5500LH	53	105	
6000 Lumens	6000LH	59	102	
6500 Lumens	6500LH	63	101	
7000 Lumens	7000LH	68	100	
7500 Lumens	7500LH	73	100	
8000 Lumens	8000LH	78	99	
8500 Lumens	8500LH	85	97	

Based on 3500K, 80 CRI. Lumen multipliers: Preferred Light = 0.65, 90+ CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

ORDERING		
Luminaire Series	FFOO	FEQ2
Equation 2  Nominal Size	FEQ2	24
2' x 4'	24	
Shielding	40	
Opal Acrylic Lens MicroGlow Prismatic Lens	AC MG	
	MG	
Lumen Output Standard		
4000 Lumens	4000L	
4500 Lumens	4500L	
5000 Lumens	5000L	
5500 Lumens	5500L	
High Efficiency	4000111	
4000 Lumens 4500 Lumens	4000LH 4500LH	
5000 Lumens	5000LH	
5500 Lumens	5500LH	
6000 Lumens	6000LH	
6500 Lumens	6500LH	
7000 Lumens	7000LH	
7500 Lumens	7500LH	
8000 Lumens 8500 Lumens	8000LH 8500LH	
Color Temperature	OSOULIT	
2700K, 80+ CRI <b>or</b> 90+ CRI	27K <b>or</b> 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	
3500K, Preferred Light	P35K	
Circuit Single Circuit	1C	1C
Voltage		
UNV 120/277 Volt	UNV	
347 Volt (Not available with SD5 or DLM.)	347	
Control System & Dimming Level		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Lutron 5-Series EcoSystem (LDE5) -	LIII	
5% Dimming	LU5	
Step Dimming (6000 lumens or less only. 120/277 only.)	SD5	
Enlighted Smart Sensor - 1% Dimming	ENL1	
(Cannot combine with 347V & EM.)		
Osram Connected Lighting Module for ENCELIUM systems - 1% Dimming	CLM1	
(5500 Lumens or less. Cannot combine with 347V & EM. Compatible with Osram ENCELIUM and ENCELIUM	CLIVIT	
EDGE systems only.)		
Osram Connected Lighting Module for		
ZigBee Wireless Networks - 1% Dimming (5500 Lumens or less. Cannot combine with 347V & EM.	CLMZ1	
Not compatible with Osram ENCELIUM systems.)		
Wattstopper DLM - 1% Dimming	DLM1	
Mounting 24" Aircraft Cable	C24	
48" Aircraft Cable	C48	
96" Aircraft Cable	C96	
Drywall Frame Kit (ENL1, CLM1, CLMZ1 & DLM1 not available)	F	
(Cut out dimensions: Min: 24.25"/Max: 24.563"		
Min: 48.25"/Max: 48.563")		
Grid Slot Tee	G ST	
Surface Mount	SM	
(Not available with DLM1)		
Factory Options Air Return	AR	
(Overall height with Air Return is 4.62"-4.89")		
Chicago Plenum	CP	
Emergency Battery Pack with Integral Test Switch	EM .	
(Cannot combine with 347V)		
6' New York City Flex Whip (120V)	FNY1	
6' New York City Flex Whip (277V) 6' Flex Whip	FNY2 FW	
Finish		WH
Matte Satin White	WH	



(55



## Equation<sup>™</sup> 2 2x4

LEC

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>



## enlighted

Enlighted smart sensor allows for occupancy sensing, daylight harvesting, energy usage, temperature and light level control. Communicates wirelessly with the Enlighted network.

Enlighted Smart Sensor - 1% Dimming (ENL1)
Enlighted Model #SU-4E-01

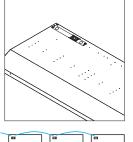


#### OSRAM

Connected Lighting Module (CLM) enables each luminaire to be independently controlled and configured. Communicates wirelessly with Daintree Networks®, Osram ENCELIUM®, Osram ENCELIUM EDGE™, and other networks using the ZigBee® HA communication protocol to allow for on/off and dimming functionality, occupancy sensing and multi-zone daylight harvesting.

Osram CLM - 1% Dimming (CLM1 & CLMZ1)
Osram Model #ZBHA-CLM DIM

Serial labels will be provided on outside of luminaires and control unit.



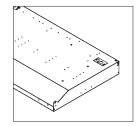
### **la legrand**

WATTSTOPPER\*

A Digital Lighting Management (DLM) system that provides two-way wired communication between networked luminaires and control system to allow for on/off and dimming functionality, occupancy sensing and multi-zone daylight harvesting.

Wattstopper DLM - 1% Dimming (DLM1) Wattstopper Model #LMFC-011

CAT-5 Cable provided by others. Serial labels will be provided on outside of luminaires and control unit.

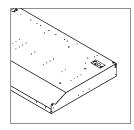


#### **\$\text{LUTRON}**

A two-way digital network that enables on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting working with Quantum®, Energi Savr Node™, and Energi TriPak® using EcoSystem® communication protocol.

Lutron Hi-Lume EcoSystem - 1% Dimming (LH1) Lutron Model #LDE1

Lutron 5-Series EcoSystem - 5% Dimming (LU5) Lutron Model #LDE5





A two-way digital network that enables on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting. Communicates with Zūm wireless and SpaceBuilder working with Zūm hub scheduling or FUSION management.

0-10V - 1% Dimming (L11)

Note: 0-10V is not a digital network but is compatible with Creston  $Z\bar{u}m^{\tau M}$  system.

#### CONNECTED SOLUTIONS DETAILS

Connected Solution	Model #	Protocol	Compatible Networks*	Occupancy	Daylight	Temperature Reporting	Communication to Luminaire	Drivers
Crestron (L11)	Specified Driver	0-10V	Crestron Zūm Wireless & SpaceBuilder	Enabled	Enabled	No	Wired	Philips Xitanium
Enlighted Smart Sensor (ENL1)	SU-4E-01**	Enlighted RF	Enlighted	Integrated	Integrated	Yes	Wireless	Philips SimpleSet, Osram Optotronic
Legrand Wattstopper DLM (DLM1)	LMFC-011**	DLM	DLM	Enabled	Enabled	No	Wired	Philips SimpleSet, Osram Optotronic
Lutron EcoSystem (LH1 & LU5)	LDE1,** LDE5**	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	Enabled	No	Wired	Lutron Hi-Lume Lutron 5-Series
Osram CLM for ENCELIUM systems (CLM1)	ZBHA-CLM**	ZigBee HA	Osram ENCELIUM & ENCELIUM EDGE	Enabled	Enabled	No	Wireless	Osram Optotronic
Osram CLM for ZigBee Wireless Networks (CLMZ1)	ZBHA-CLM**	ZigBee HA	Daintree Networks & open ZigBee Networks	Enabled	Enabled	No	Wireless	Osram Optotronic