Equation™ 2 2x2

LED

FOCAL POINT®

opal acrylic lens

MicroGlow lens

suspended or surface mount
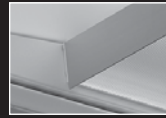
air return

DIMENSIONAL DATA

3.91"
99.3mm

24.00"
609.6mm

Overall height of luminaire with air return is 4.60"

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.

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

PRODUCT OVERVIEW

Lumen Output:	2000-5000lm
Wattage:	21-54W
LPW:	83-103
SDCM:	3

Opal Acrylic Lens

Delivered Lumens: 3500lm

Total System Watts: 35W

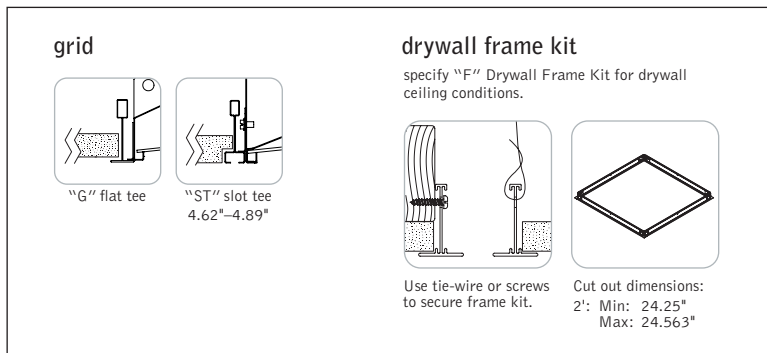DLC QPL LISTED®

Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data. Visit designlights.org/QPL for model specifics.

MOUNTING INFORMATION

grid

"G" flat tee

"ST" slot tee
4.62"–4.89"

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"

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: 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.

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 >60,000 hours   Calculated: L70 at 135,000 hours
L80 at >60,000 hours   L80 at 80,000 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

Delivered Lumens		Tested System Watts	LPW
2000 Lumens	2000L	21	96
2500 Lumens	2500L	28	92
	2500LH	25	103
3000 Lumens	3000L	35	88
	3000LH	30	101
3500 Lumens	3500L	42	83
	3500LH	35	100
4000 Lumens	4000LH	41	97
4500 Lumens	4500LH	47	94
5000 Lumens	5000LH	54	90

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			**FEQ2**
Equation 2	FEQ2		
Nominal Size			**22**
2' x 2'	22		
Shielding			_____
Opal Acrylic Lens	AC		
MicroGlow Prismatic Lens	MG		
Lumen Output			_____
Standard			
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		

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
3500K, Preferred Light — P35K

Circuit __1C__
Single Circuit — 1C

Voltage _____
UNV 120/277 Volt — UNV
347 Volt — 347
(Not available with SD5, CLM1, CLMZ1, DLM1, ENL1 or NLT1. Transformer required for all drivers except LD1.)

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) - 5% Dimming — LU5
DALI - 1% Dimming — D11
(2000L, 2500L, 2500LH & 3000LH only.)
Step Dimming — SD5
(Not available with 2500LH. 120/277 only.)
Acuity nLight - 1% Dimming — NLT1
(Not available with EM or CP. 2000L, 2500L, 2500LH & 3000LH only.)
Enlighted Smart Sensor - 1% Dimming — ENL1
Osram Connected Lighting Module for ENCELIUM systems - 1% Dimming — CLM1
(Compatible with Osram ENCELIUM and ENCELIUM EDGE systems only. Not available with EM.)
Osram Connected Lighting Module for ZigBee Wireless Networks - 1% Dimming — CLMZ1
(Not compatible with Osram ENCELIUM systems. Not available with EM.)
Wattstopper DLM - 1% Dimming — DLM1
(Not available with EM.)

Mounting _____
24" Aircraft Cable — C24
48" Aircraft Cable — C48
96" Aircraft Cable — C96
Drywall Frame Kit — F
(NLT1, ENL1, CLM1, CLMZ1 & DLM1 not available)
(Cut out dimensions: Min: 24.25"/Max: 24.563")
Grid — G
Slot Tee — ST
Surface Mount — SM
(NLT1 & DLM1 not available)

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) — FNY2 _____
6' Flex Whip — FW _____

Finish __WH__
Matte Satin White — WH

CONNECTED SOLUTIONS

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.†
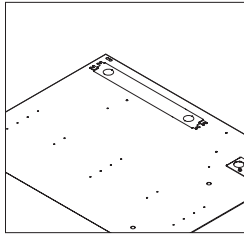
nLIGHT

nLight® provides a two-way wired digital lighting system allowing for on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting.

Acuity nLight - 1% Dimming (NLT1)
Acuity Model #nEPS-60-IO

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

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.

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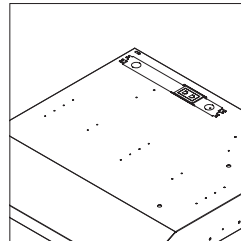
A Digital Lighting Management (DLM) system that provides two-way wired communication between networked luminaires and control system to allow for on/off and dimming functionality, occupancy sensing and multi-zone daylight harvesting.

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.
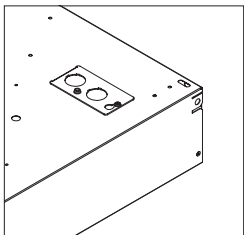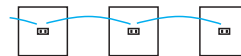
LUTRON®

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
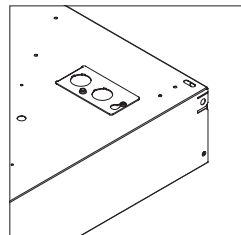
CRESTRON

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.

DALI - 1% Dimming (D11)
0-10V - 1% Dimming (L11)
Note: 0-10V is not a digital network but is compatible with Creston Zūm™ system.

CONNECTED SOLUTIONS DETAILS

Connected Solution	Model #	Protocol	Compatible Networks*	Occupancy	Daylight	Temperature Reporting	Communication to Luminaire	Drivers
Acuity nLight (NLT1)	nEPS-60-IO**	nLight	nLight	Enabled	Enabled	No	Wired	**eldoLED ECOdrive,** eldoLED SOLOdrive
Crestron (D11, L11)	Specified Driver	DALI 0-10V	Crestron Zūm Wireless & SpaceBuilder	Enabled	Enabled	No	Wired	**eldoLED ECOdrive (DALI), Philips Xitanium (0-10V)**
Enlighted Smart Sensor (ENL1)	SU-4E-01**	Enlighted RF	Enlighted	Integrated	Integrated	Yes	Wireless	**Osram Optotronic,** Philips SimpleSet
Legrand Wattstopper DLM (DLM1)	LMFC-011**	DLM	DLM	Enabled	Enabled	No	Wired	**Osram Optotronic,** Philips SimpleSet
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**

*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.