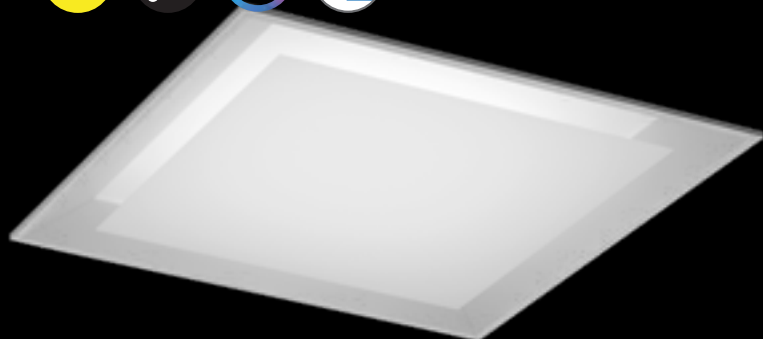


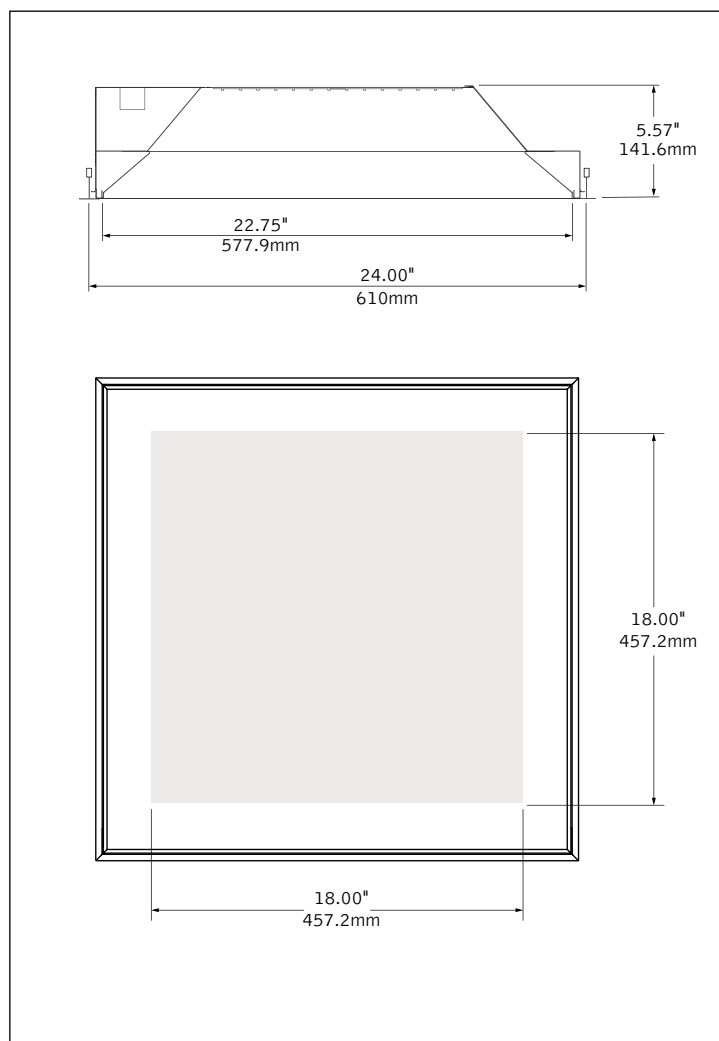
# Zephyr™ 2x2

LED



detail

## DIMENSIONAL DATA



## FEATURES

Architectural recessed 2'x2' with unique floating diffuser.

Lens element features an optical microstructure providing glare control and high levels of efficiency.

Zephyr features a one-piece, hinged bezel assembly that is easily removed for ease of maintenance.

Standard Right Light levels from 1,000 to 5,500 lumens.

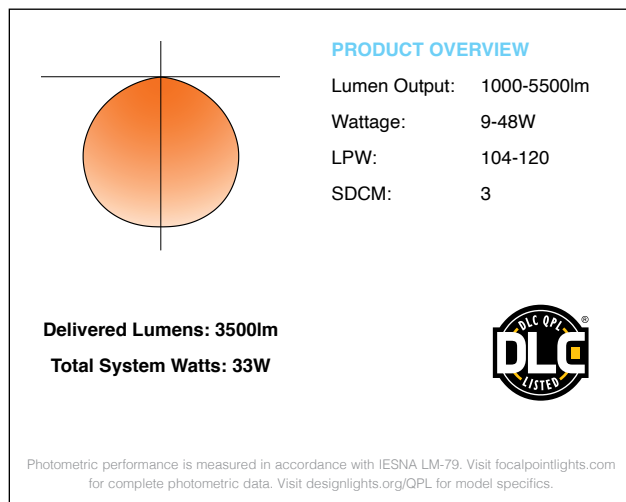
Dimming options include DALI, 0-10V and Lutron EcoSystem.

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

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

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

## PERFORMANCE




fixture:


project:

DETAILS

grid



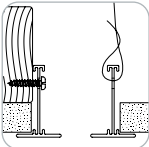
"G" flat tee



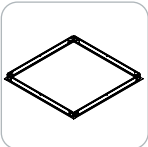
"ST" slot tee

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. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. 0-10V dimming driver standard. LED modules and drivers are replaceable from below. Color accuracy <3 SDCM.

**Construction**  
24 Ga. steel housing. Bottom access 24 Ga. steel driver compartment. Positional brackets supplied as standard. Weight: 14.5 lbs.

**Optic**  
24 Ga. Steel reflectors finished in matte satin white powder coat. Layered lens system includes .020" thick frosted acrylic and .080" clear acrylic with optical microstructure.

**Electrical**  
Standard 120-277V driver includes 0-10V analog dimming, 100% - 10% range. Power factor > .9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

**Emergency**  
Emergency battery output—10 watts for 90 minutes. Maximum mounting height: 23.9ft  
Emergency Circuit with Connected Solutions (NLT1, ENL1, CLM1, CLMZ1, DLM1) requires a UL924 compliant device, consult factory. Top access only.

**Labels**  
UL and cUL listed. Suitable for Dry or Damp Locations, indoor use only.

**Finish**  
Polyester powder coat applied over a 5-stage pre-treatment.

**Lumen Maintenance**  
Reported: L70 at 42,000 hours      Calculated: L70 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.

**Lifetime and warranty**  
LED system rated for operation in ambient environments up to 35°C. 5-year limited warranty.

PERFORMANCE CHART

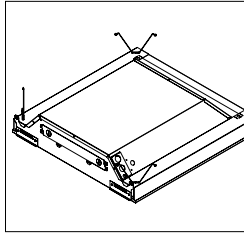
Delivered Lumens	Tested System Watts	LPW	Delivered Lumens	Tested System Watts	LPW
1000	9	111	4000	39	104
1500	13	116	4500	38	120
2000	18	113	5000	43	117
2500	23	109	5500	48	115
3000	27	111			
3500	33	107			

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	FZR
Zephyr	FZR
Nominal Size	22
2' x 2'	22
Shielding	FL
Frosted Lens	FL
Lumen Output	
1000 Lumens	1000L
1500 Lumens	1500L
2000 Lumens	2000L
2500 Lumens	2500L
3000 Lumens	3000L
3500 Lumens	3500L
4000 Lumens	4000L
4500 Lumens	4500L
5000 Lumens	5000L
5500 Lumens	5500L
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
Circuits	1C
Single Circuit	1C
Voltage	
UNV 120/277 Volt	UNV
347 Volt	347
(Transformer required for all drivers except LD1. Top access only to transformer. LD1 not available with 1000 Lumen. Not available with SD5.)	
Low Voltage	LV
Control System & Dimming Level	
0-10V - 10% Dimming	LD1
Low Voltage, PoE compatible	LVN
(No driver. Not available with EM or EC. LV Voltage only.)	
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
Step Dimming (120/277 only.)	SD5
Acuity nLight - 1% Dimming (Not available with CP.)	NLT1
Enlighted Smart Sensor - 1% Dimming (Remote mounted sensor)	ENL1
Osram Connected Lighting Module for ENCELUM systems - 1% Dimming (Compatible with Osram ENCELUM and ENCELUM EDGE systems only)	CLM1
Osram Connected Lighting Module for ZigBee Wireless Networks - 1% Dimming (Not compatible with Osram ENCELUM systems)	CLMZ1
Wattstopper DLM - 1% Dimming	DLM1
Mounting	
Drywall Frame Kit	F
(Not available with CLM1, CLMZ1, DLM1, ENL1 or NLT1)	
Grid	G
Slot Tee	ST
Factory Options	
Air Return (Housing height 6.07in/154.2mm. Not compatible with Drywall Frame Kit.)	AR
Chicago Plenum	CP
Emergency Battery (120/277 only. Top access only)	EM
6' New York City Flex Whip (120V)	FN1Y
6' New York City Flex Whip (277V)	FN2Y
6' Flex Whip	FW
Finish	WH
Matte White Housing	WH

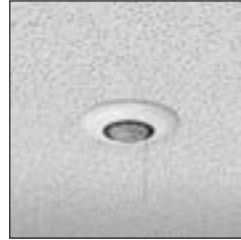
Focal Point provides flexibility in meeting the needs of each project by integrating with several building lighting control systems. A variety of sensors, drivers and other components can be specified that allow the luminaires to communicate with wired and wireless networks. All zoning can be digitally 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>



nLight<sup>®</sup> 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.



A Siemens Company

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

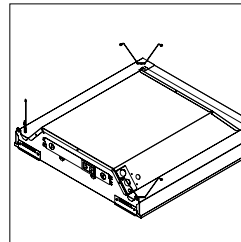
Enlighted Smart Sensor - 1% Dimming (ENL51)  
Enlighted Model #SU-5E-IOT



Connected Lighting Module (CLM) enables each luminaire to be independently controlled and configured. Communicates wirelessly with Daintree Networks<sup>®</sup>, Osram ENCELUM<sup>®</sup>, Osram ENCELUM EDGE<sup>™</sup>, and other networks using the ZigBee<sup>®</sup> 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.

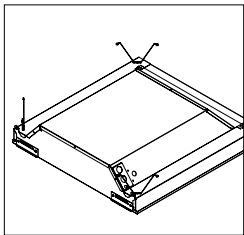


WATTSTOPPER<sup>®</sup>

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.

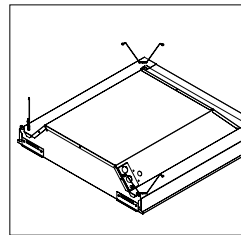
Wattstopper DLM - 1% Dimming (DLM1)  
Wattstopper Model #LMFC-011

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



A two-way digital network that enables on/off and dimming functionality, occupancy sensing, and multi-zone daylight harvesting working with Quantum<sup>®</sup>, Energi Savr Node<sup>™</sup>, and Energi TriPak<sup>®</sup> using EcoSystem<sup>®</sup> 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 Züm wireless and SpaceBuilder working with Züm 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 Züm<sup>™</sup> 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	<b>eldoLED ECODErive</b> , eldoLED SOLOdrive
Creston (D11, L11)	Specified Driver	DALI 0-10V	Creston Züm Wireless & SpaceBuilder	Enabled	Enabled	No	Wired	<b>eldoLED ECODErive (DALI)</b> , Advance by Signify
Enlighted Smart Sensor (ENL1)	SU-5E-IOT**	Enlighted RF	Enlighted	Integrated	Integrated	Yes	Wireless	<b>Osram Optotronic</b> , Advance by Signify
Legrand Wattstopper DLM (DLM1)	LMFC-011**	DLM	DLM	Enabled	Enabled	No	Wired	<b>Osram Optotronic</b> , Advance by Signify
Lutron EcoSystem (LH1 & LU5)	LDE1,** LDE5**	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	Enabled	No	Wired	<b>Lutron Hi-Lume</b> <b>Lutron 5-Series</b>
Osram CLM for ENCELUM systems (CLM1)	ZBHA-CLM**	ZigBee HA	Osram ENCELUM & ENCELUM EDGE	Enabled	Enabled	No	Wireless	<b>Osram Optotronic</b>
Osram CLM for ZigBee Wireless Networks (CLMZ1)	ZBHA-CLM**	ZigBee HA	Daintree Networks & open ZigBee Networks	Enabled	Enabled	No	Wireless	<b>Osram Optotronic</b>

\*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.