Zephyr™ 2x2

LED

detail

DIMENSIONAL DATA

5.57"
141.6mm

22.75"
577.9mm

24.00"
610mm

18.00"
457.2mm

18.00"
457.2mm
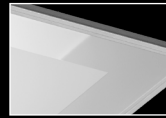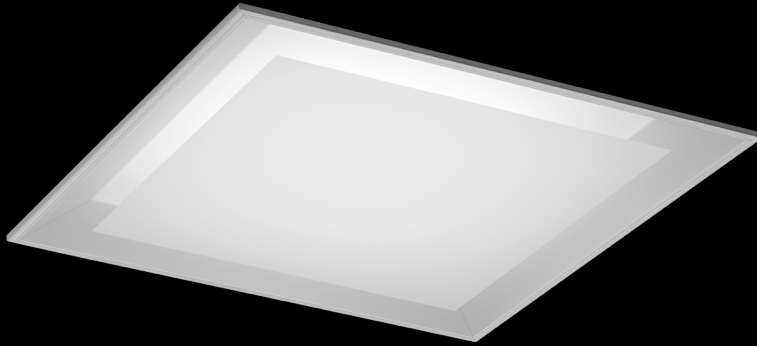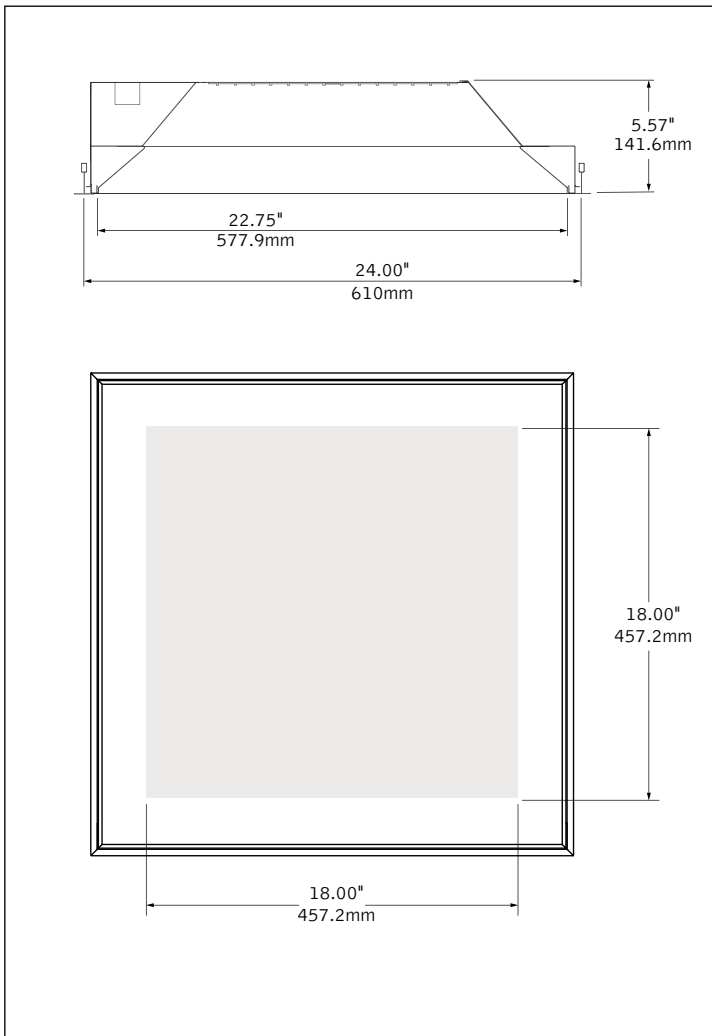
FEATURES

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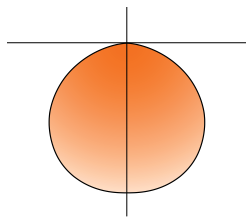
Standard Right Light levels from 1,000 to 5,500 lumens.

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

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

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

PERFORMANCE

PRODUCT OVERVIEW

Lumen Output: 1000-5500lm

Wattage: 9-48W

LPW: 104-120

SDCM: 3
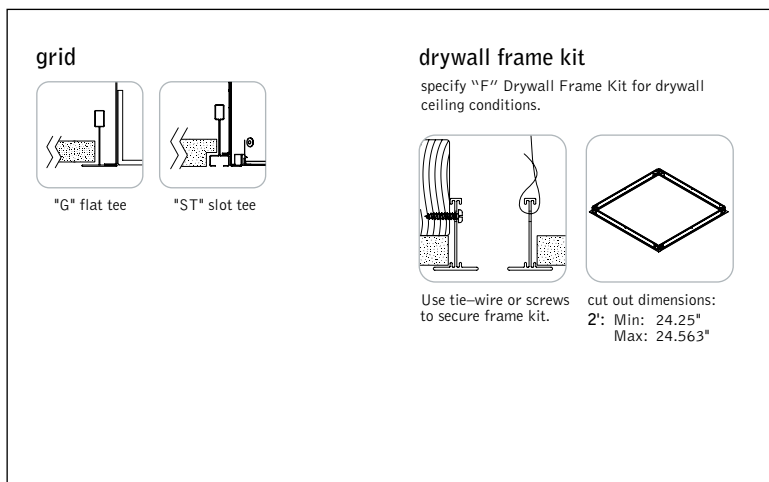
Delivered Lumens: 3500lm

Total System Watts: 33W

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

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 (DLM1, LMFS1, LMFSD, NLT1, ENL1, CLM1, NXE1, WLXP) 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℃. 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:
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	
Circuits		**1C**
Single Circuit	1C	
Voltage		
UNV 120/277 Volt	UNV	
347 Volt	347	
(LD1, CLM1 only, Not available with EM)		
Low Voltage	LV	
Control System & Dimming Level		
0-10V - 10% Dimming	LD1	
0-10V - 1% Dimming	L11	
Low Voltage, PoE compatible	LVN	
(No driver. Not available with EM or EC. LV Voltage only.)		
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
DALI - 1% Dimming	D11	
Step Dimming	SD5	
(120/277 only.)		
Wattstopper DLM - 1% Dimming	DLM1	
(Not available with CP)		
Wattstopper Fixture Sensor Low Density – 1% Dimming	LMFS1	
(Remote mounted sensor.)		
Wattstopper Fixture Sensor High Density – 1% Dimming	LMFSD	
(Remote mounted sensor.)		
Acuity nLight - 1% Dimming	NLT1	
(Not available with CP.)		
Enlighted Smart Sensor - 1% Dimming	ENL1	
(Remote mounted sensor.)		
Encelium CLM Connected Lighting Module - 1% Dimming	CLM1	
Current NX Enabled – 1% Dimming	NXE1	
(Not available with CP.)		
WaveLinx Pro – 1% Dimming	WLXP	
(Remote mounted sensor.)		
Mounting		
Drywall Frame Kit	F	
(Not available with CLM1, DLM1, NXE1 or NLT1)		
Grid	G	
Slot Tee	ST	
Factory Options		
Air Return	AR	
(Housing height 6.07in/154.2mm. Not compatible with Drywall Frame Kit.)		
Chicago Plenum	CP	
(Not available with flex whip)		
Emergency Battery	EM	
(120/277 only. Top access only)		
6' New York City Flex Whip (120V)	FNY1	
6' New York City Flex Whip (277V)	FNY2	
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.[†]

Connected Solution		Ordering Code	Model #**	Protocol	Compatible Networks*	Occupancy & Daylight	Temperature Reporting	Communication to Luminaire	Drivers
legrand® WATTSTOPPER®		DLM1	LMFC-011	DLM	DLM	Enabled	No	Wired	**Advance by Signify**, Optotronic by eldoLED
		LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Enabled	No	Wireless	**Advance by Signify**
		LMFSD	LMFS-601						**Optotronic by eldoLED (Dexal)**
COOPER Lighting Solutions		WLXP	OEM-WAA	Wavelinx Wireless	WaveLinx Pro Trellix	Enabled	No	Wireless (WaveLinx Pro Wireless Area Controller)	**Advance by Signify**
CRESTRON®		D11	Specified Driver	DALI	Crestron Zūm Wireless & SpaceBuilder	Enabled	No	Wired	**eldoLED ECOdrive**
		L11		0-10V					**Advance by Signify**
ENCELIUM		CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	**Optotronic by eldoLED** Advance by Signify
Enlighted		ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	**Advance by Signify**
LUTRON		LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	**Lutron Hi-Lume**
nLIGHT		NLT1	nEPS-60-IO	nLight	nLight	Enabled	No	Wired	**eldoLED ECOdrive,** eldoLED SOLOdrive
NX LIGHTING CONTROLS™		NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled	No	Wired	**Optotronic by eldoLED**

*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.