Seem® 4
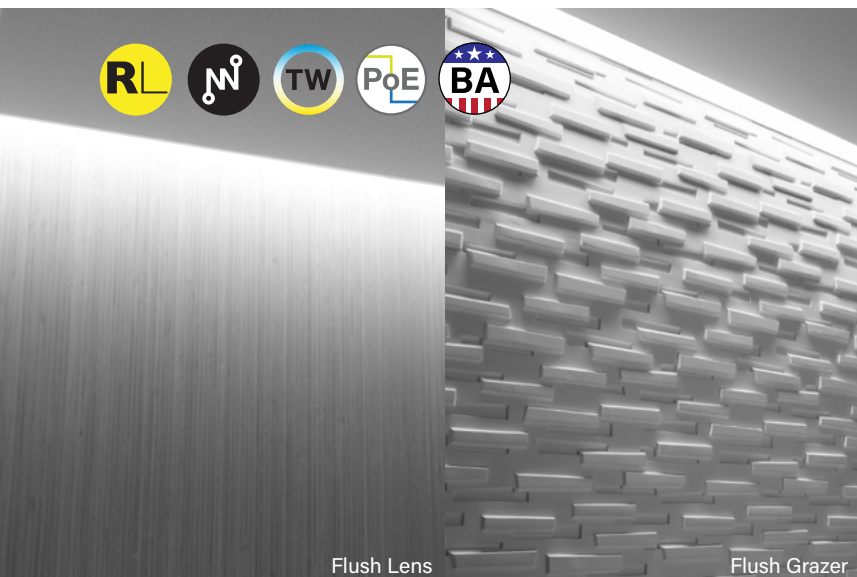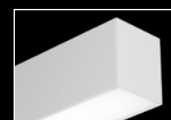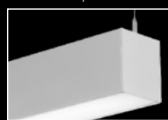## LED PERIMETER

Flush Lens

Flush Grazer

recessed companion

wall to ceiling companion

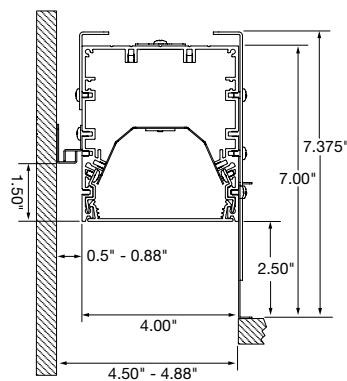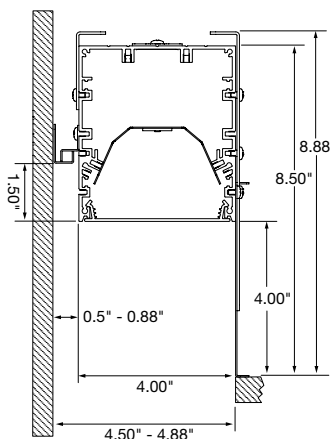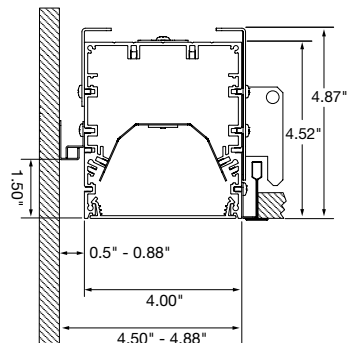wall mount companion

suspended companion

DIMENSIONAL DATA

2.5" Regress (FL2/GR2)
Drywall/hard ceiling

7.375"
7.00"
1.50"
2.50"
0.5" - 0.88"
4.00"
4.50" - 4.88"

4.0" Regress (FL4/GR4)
Drywall/hard ceiling

8.88"
8.50"
1.50"
4.00"
0.5" - 0.88"
4.00"
4.50" - 4.88"

Flush (FL0/GR0/AF0)
Lay-in Grid

4.87"
4.52"
1.50"
0.5" - 0.88"
4.00"
4.50" - 4.88"

Mounting Details

Regress options

Grid
15/16" or 9/16" Flat Tee main runner required at edge.

Drywall
Ceiling mounts below housing (structure by others).

Flush

Lay-in Grid | Slot Tee/ Tegular | Mud-in Drywall | Trim Flange

⚠ Luminaire must be installed prior to drywall

FEATURES

Seem 4 perimeter provides a glowing transition between ceiling and wall with Flush, 1" regress, 2.5" regress or 4.0" regress lenses.

Grazer optic provides even vertical illumination and adds drama to a space by highlighting textured walls and architectural details.

Asymmetric Room Fill optic provides best efficacy and uniformity to light rooms and corridors from the perimeter.

Adjustable housing option provides flexiblity with +/- 3 inch adjustability for wall-to-wall illumination.

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.

DISTRIBUTIONS

Flush Lens | 1" Regressed Lens | 2.5" Regressed Lens | 4.0" Regressed Lens

Flush Grazer | 1" Regressed Grazer | 2.5" Regressed Grazer | 4.0" Regressed Grazer

Flush Asymmetric Room Fill | 1" Asymmetric Room Fill
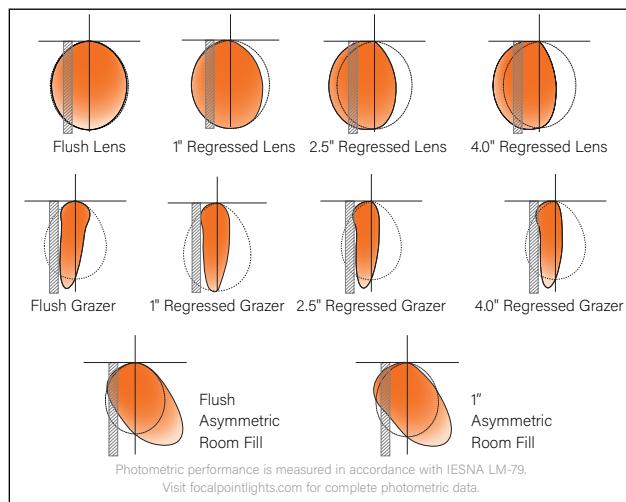
Photometric performance is measured in accordance with IESNA LM-79.
Visit focalpointlights.com for complete photometric data.

PATTERN CONFIGURATIONS

Wall-to-wall dimensions required for pattern configurations.
ICR - 90° Inside Corner Right
OCL - 90° Outside Corner Left

■ Housing
■ Adjustable Lit Housing allows for +/- 3" of adjustment

PAT-10ft 6in-ICR-20ft-ICR-10ft 6in

PAT-15ft 3in-OCL-18ft-ICR-20ft 6in

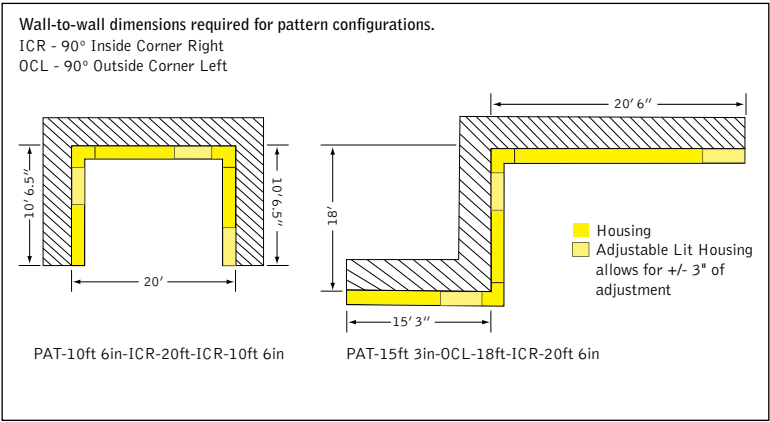## 4' PERFORMANCE CHARTS

Lumen Output	Nominal Lumens	FL0		FL1		FL2		FL4	
		Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW
275LF	1100	9.5	116	9.2	119	9.8	112	9.8	112
375LF	1500	12.1	124	11.7	128	12.8	117	12.5	120
625LF	2500	19.5	128	18.9	133	21.6	116	21.0	119
875LF	3500	28.5	123	27.5	127	30.5	115	29.7	118
1000LF	4000	32.9	122	31.6	126	35.3	113	34.3	117

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: 90+ CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

Lumen Output	Nominal Lumens	GR0		GR1		GR2		GR4	
		Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW
275LF	1100	8.8	125	9.0	122	9.3	119	9.5	115
375LF	1500	11.2	134	11.4	132	11.8	127	12.1	124
625LF	2500	17.9	139	18.3	137	19.0	132	19.6	128
875LF	3500	26.0	135	26.5	132	27.7	127	28.6	122
1000LF	4000	29.9	134	30.5	131	31.8	126	33.0	121

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: 90+ CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.
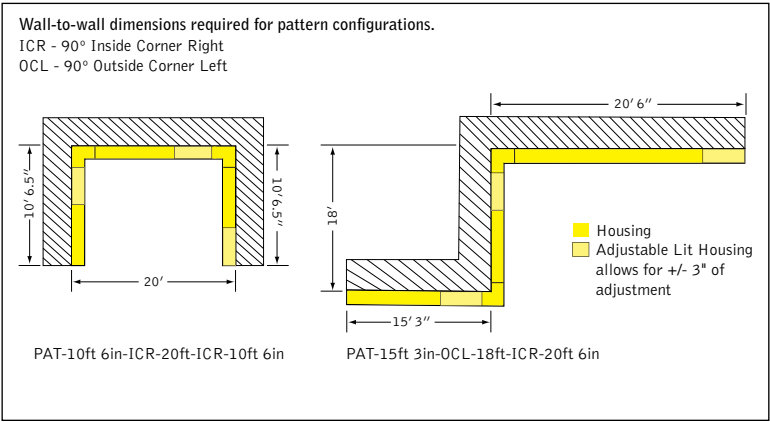
Lumen Output	Nominal Lumens	AF0		AF1	
		Tested System Watts	LPW	Tested System Watts	LPW
275LF	1100	8.7	127	8.8	125
375LF	1500	10.9	137	11.1	135
625LF	2500	17.5	143	17.9	140
875LF	3500	25.3	138	25.9	135
1000LF	4000	29.1	137	29.8	134

Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: 90+ CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

**QS 10 DAY** Options in orange qualify for the Quickship program. Run lengths in 1' increments, 400' total. Refer to Quickship Guide for complete details.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

STANDARD WHITE

FSM4PR

Luminaire Series
Seem 4 LED Perimeter — FSM4PR

Housing Type ___
Adjustable Lit Housing — ALH
(Allows for +/- 3" adjustment to overall run length. 3' minimum luminaire length.)
Fixed Housing — FXH
(not recommended for wall to wall installations)

Shielding ___
Flush Lens* — FL0
1.0" Regress — FL1
2.5" Regress — FL2
4.0" Regress — FL4
Flush Grazer* — GR0
1.0" Regress Grazer — GR1
2.5" Regress Grazer — GR2
4.0" Regress Grazer — GR4
Flush Asymmetric Room Fill* — AF0
1.0" Regress Asymmetric Room Fill — AF1
*(Not available with Unlit Sliding Sleeves - SSB)

Lumen Output ___
275 Lumens per foot — 275LF
(Not available with Lutron Drivers.)
375 Lumens per foot — 375LF
(Not available with LH1.)
625 Lumens per foot — 625LF
(3' minimum with LH1.)
875 Lumens per foot — 875LF
1000 Lumens per foot — 1000LF

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 & Zones ___
1 Circuit, non-emergency — 1C
Consult Ordering Guide on page 5 for multiple circuiting and zoning options — _C_Z_DL

Voltage ___
120/277 UNV Volt — UNV
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
Wattstopper DLM - 1% Dimming[1][2] — DLM1
(Not available with CP.)
Wattstopper Fixture Sensor[1] Low Density – 1% Dimming — LMFS1
(Remote mounted sensor. See sensor layout guide)
Wattstopper Fixture Sensor[1] High Density – 1% Dimming — LMFSD
(Remote mounted sensor. See sensor layout guide)
Lutron Athena Wireless Node[1][2][3] — LAW1
Lutron Athena Wireless Sensor[1][3] — LAWS
(Remote mounted sensor. See sensor layout guide)
Acuity nLight - 1% Dimming[1] — NLT1
(Not available with CP.)
Encelium CLM Connected Lighting[1][2] Module - 1% Dimming — CLM1
Current NX Enabled – 1% Dimming[1][2] — NXE1
(Not available with CP)
WaveLinx Pro – 1% Dimming[1] — WLXP
(Remote mounted sensor. See sensor layout guide)
[1](3' minimum length. 7' minimum length with FXH & EM. Not available with ALH.) [2](G & ST mounting only.) [3](0-10V standard, consult factory for DALI)

Mounting ___
Flush (FL0, GR0 & AF0)
Lay-in Grid — G
Slot Tee / Tegular — ST
Trim Flange Drywall — TF
Mud-in Trimless Drywall — XFF
Regressed (AF1, FL1, FL2, FL4, Gr1, GR2 & GR4)
Grid — G
Trimless Drywall — XF

Factory Options ___
(See Ordering Guide on page 5 for ordering details for DC, EC, EM & ECD.)
Chicago Plenum — CP
(Not available with flex whip)
Daylight Circuit — _DC
Emergency Circuit — _EC
Emergency Battery Pack† — _EM
Emergency Control Device† — _ECD
6' New York City Flex Whip (120V only) — FNY1
6' New York City Flex Whip (277V only) — FNY2
6' Flex Whip — FW
Fixed Housing with Unlit Sliding Sleeves — SSB
(Set of two unlit 12" sleeves. Fixed housing in straight runs only. FL2, FL4, GR2 & GR4 only. 3' minimum luminaire length.)

Finish — WH
Matte White Housing — WH

Luminaire Length ___ ft ___ in
Specify luminaire/row length in 1" increments — _ft _in
(2' minimum length)

Pattern Options
Specify patterns based on wall-to-wall dimensions — PAT
(See Pattern Configurations for example)
Example: FSM4PR-ALH-FL2-625LF-35K-1C-120-LD1-G-WH-PAT-10-ICR-20-ICR-10

†4' minimum length. 120/277 Volt only. EM or ECD not available at corners.

PATTERN CONFIGURATIONS

Wall-to-wall dimensions required for pattern configurations.
ICR - 90° Inside Corner Right
OCL - 90° Outside Corner Left

☐ Housing
☐ Adjustable Lit Housing allows for +/- 3" of adjustment

PAT-10ft 6in-ICR-20ft-ICR-10ft 6in

PAT-15ft 3in-OCL-18ft-ICR-20ft 6in

TW 4' PERFORMANCE CHARTS

Lumen Output	Nominal Lumens	LPW							
		FL0		FL1		FL2		FL4	
		Tested System Watts		Tested System Watts		Tested System Watts		Tested System Watts	
275LF	1100	11.3	98	11.0	100	11.6	95	11.6	95
375LF	1500	15.0	100	14.5	103	15.9	94	15.5	97
625LF	2500	24.8	101	23.9	105	27.4	91	26.6	94
875LF	3500	36.7	95	35.4	99	39.3	89	38.2	92
1000LF	4000	42.0	95	40.5	99	45.1	89	43.8	91

Based on 2700K, 90 CRI, 4' lengths. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

Lumen Output	Nominal Lumens	LPW											
		GR0		GR1		GR2		GR4		AF0		AF1	
		Tested System Watts		Tested System Watts		Tested System Watts		Tested System Watts		Tested System Watts		Tested System Watts	
275LF	1100	10.5	105	10.7	103	11.0	100	11.3	97	10.3	107	10.5	105
375LF	1500	13.9	108	14.1	106	14.6	103	15.1	100	13.6	111	13.8	109
625LF	2500	22.7	110	23.2	108	24.1	104	24.9	101	22.2	113	22.7	110
875LF	3500	33.5	105	34.2	102	35.6	98	36.8	95	32.6	107	33.3	105
1000LF	4000	38.3	105	39.0	102	40.7	98	42.2	95	37.2	107	38.1	105

Based on 2700K, 90 CRI, 4' lengths. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

Lumen Multipliers

CRI	Multiplier
80+	1.16
90+	1.00

Wattage Multipliers

CCT	Multiplier
2700K	1.00
3000K	0.96
3500K	0.92
4000K	0.89
5000K	0.88
5700K	0.87

TW TUNABLE WHITE

		FSM4PR
Luminaire Series		
Seem 4 LED Perimeter	FSM4PR	

Housing Type _____
Adjustable Lit Housing **ALH**
(Allows for +/- 3" adjustment to overall run length. 3' minimum luminaire length.)
Fixed Housing **FXH**
(not recommended for wall to wall installations)

Shielding _____
Flush Lens* FL0
1.0" Regress FL1
2.5" Regress FL2
4.0" Regress FL4
Flush Grazer* GR0
1.0" Regress Grazer GR1
2.5" Regress Grazer GR2
4.0" Regress Grazer GR4
Flush Asymmetric Room Fill* AF0
1.0" Regress Asymmetric Room Fill AF1
*(Not available with Unlit Sliding Sleeves - SSB)

Lumen Output _____
275 Lumens per foot 275LF
(3' min with D1TW. 4' min with LT1.)
375 Lumens per foot 375LF
(3' min with LT1.)
625 Lumens per foot 625LF
875 Lumens per foot* 875LF
1000 Lumens per foot* 1000LF
*(3' 6" min with ALH)

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

Circuits & Zones _____
1 Circuit, non-emergency 1C
Consult Ordering Guide on page 5 for _C_Z_DL
multiple circuiting and zoning options

Voltage **UNV**
120/277 UNV Volt UNV

Control System & Dimming Level _____
DALI - 1% Dimming D1TW
(DT6 control. Requires two addresses, one for intensity & one for CCT tuning. Consult factory for DT8.)
Acuity nLight - 1% Dimming† NLT1
(Not available with CP.)
†(Consult factory)

Mounting _____
Flush (FL0, GR0 & AF0):
Lay-in Grid G
Slot Tee / Tegular ST
Trim Flange Drywall TF
Mud-in Trimless Drywall XFF

Regressed (AF1, FL1, FL2, FL4, Gr1, GR2 & GR4):
Grid G
Trimless Drywall XF

Factory Options _____
(See Ordering Guide on page 5 for ordering details for DC, EC, EM & ECD.)
Chicago Plenum CP
(Not available with flex whip)
Daylight Circuit _DC _____
Emergency Circuit _EC _____
Emergency Battery Pack† _EM _____
Emergency Control Device† _ECD _____
†(Consult factory)
6' New York City Flex Whip (120V only) FNY1 _____
6' New York City Flex Whip (277V only) FNY2 _____
6' Flex Whip FW _____
Fixed Housing with Unlit Sliding Sleeves SSB _____
(Set of two unlit 12" sleeves. Fixed housing in straight runs only. FL2, FL4, GR2 & GR4 only. 3' minimum luminaire length.)

Finish **WH**
Matte White Housing WH
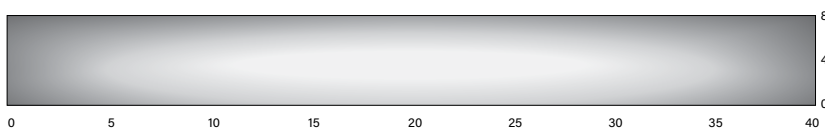
Luminaire Length **ft in**
Specify luminaire/row length in 1" increments _ft _in
(2' minimum length)

Pattern Options _____
Specify patterns based on wall-to-wall dimensions PAT
(See Pattern Configurations for example)

Example: FSM4PR-ALH-FL2-625LF-35K-1C-120-LD1-G-WH-PAT-10-ICR-20-ICR-10

†4' minimum length. 120/277 Volt only. EM or ECD not available at corners.

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, 3 SDCM or Tunable White (2700K-6500K), CRI>80, >90. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. LED modules and drivers are replaceable from below.

Construction

One piece extruded aluminum housing. 20 Ga. steel end caps, bulkheads, sliding sleeve and regress leg. 4' unit weight: 19 lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .085" thick with satin finish, up to 8' continuous.

Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Dimming range 100% to 10%.Power factor >.9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs require an independent PoE node and power feed for each luminaire section.

Emergency

Output - 10 watts for 90 minutes. Maximum mounting height: 19.2ft. Emergency Circuit with Connected Solutions (DLM1, LMFS1, LMFSD, NLT1, CLM1, NXE1, WLXP) shipped standard with leads to connect UL924 compliant device, by others.

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 > 61,000 hours   Calculated: L70 at > 480,000 hours
           L90 > 61,000 hours   L90 at > 128,000 hours
(Derived from EPA T M-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℃. 5-year limited warranty.

SELECTING THE BEST OPTIC FOR EACH APPLICATION

8' W x 40' L x 9' H Corridor | 80/50/20 Reflectances | 0.9 Light Loss Factor

FSM4PR-FL0-625LF

Luminaire Side
38.7 foot-candle average
5.33 average/minimum uniformity

Floor
31.1 foot-candle average
1.99 average/minimum uniformity

Standard Lens

The standard optic results in a Lambertian light distribution that provides uniform illumination. It is ideal to create a glowing transition between the walls and ceiling, adding dimension to the space.

FSM4PR-GR0-625LF

Luminaire Side
44.4 foot-candle average
4.87 average/minimum uniformity

Floor
33.4 foot-candle average
2.44 average/minimum uniformity

Grazer Lens

The grazer optic closely grazes walls, highlighting textures and architectural details. It is intended to provide even illumination and deliver maximum visual impact on the vertical surfaces.

FSM4PR-AF0-625LF

Luminaire Side
37.7 foot-candle average
4.64 average/minimum uniformity

Floor
39.6 foot-candle average
1.92 average/minimum uniformity

Asymmetric Room Fill Lens

The asymmetric room fill optic projects light into the space to evenly illuminate horizontal planes. It is ideal to light rooms and corridors from the perimeter, resulting in superior efficacy and uniformity on the floor.

Seem® 4 Perimeter

LED

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	Integrated	No	Wireless	**Advance by Signify**
		LMFSD	LMFS-601						**Optotronic by eldoLED (Dexal)**
COOPER Lighting Solutions		WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Integrated	No	Wireless (WaveLinx Pro Wireless Area Controller)	**Advance by Signify**
CRESTRON Connections located under access panel.		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
LUTRON		LAW1	A-WN-D01-RF-WH	DALI, 0-10V	Athena Wireless	Enabled	No	Wireless	**Advance by Signify**
		LAWS	A-WN-D01-OCC-WH	DALI, 0-10V	Athena Wireless	Integrated	No	Wireless	**Advance by Signify**
Connections located under access panel.		LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	**Lutron Hi-Lume**
nLIGHT Connections located under access panel.		NLT1	nEPS-60-IO	nLight	nLight	Enabled	No	Wired	**eldoLED ECOdrive,** eldoLED SOLOdrive
NX LIGHTING CONTROLS™ NXE1 adds 1.00" to overall height.		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.