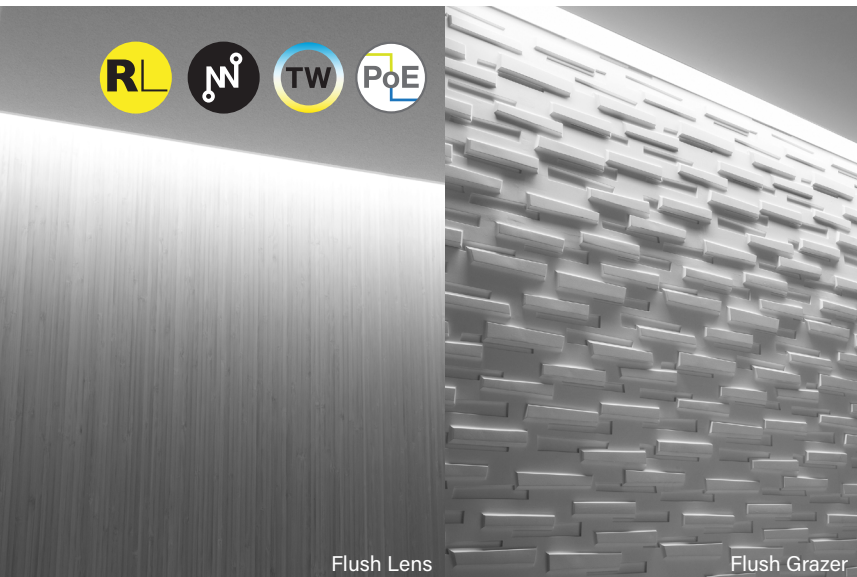


# Seem® 4

LED PERIMETER



Flush Lens

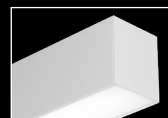
Flush Grazer



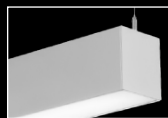
recessed companion



wall to ceiling companion

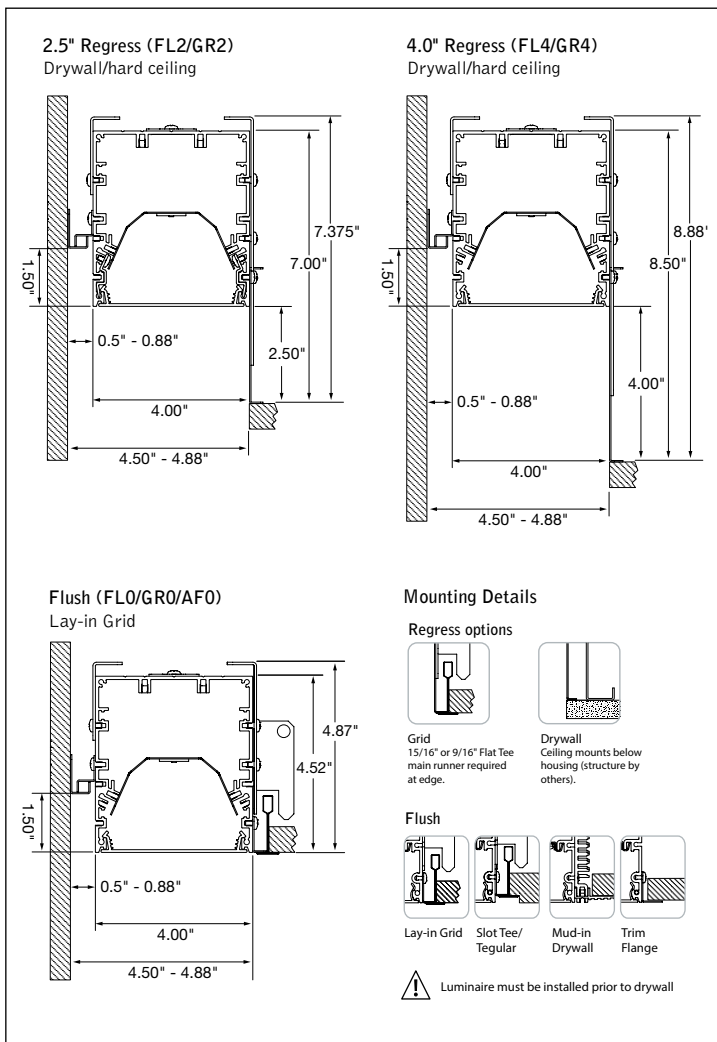


wall mount companion



suspended companion

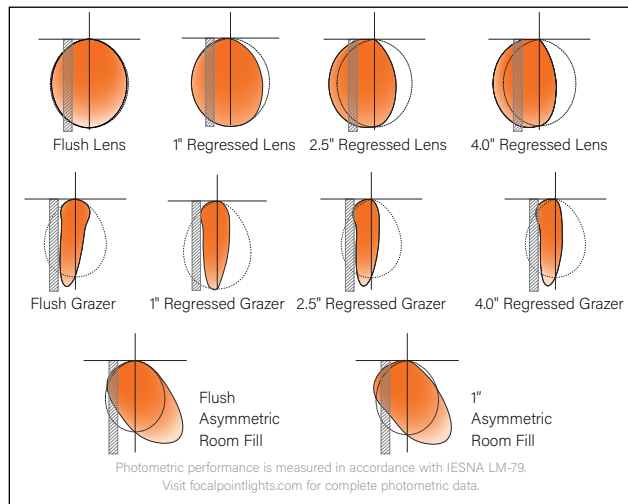
## DIMENSIONAL DATA



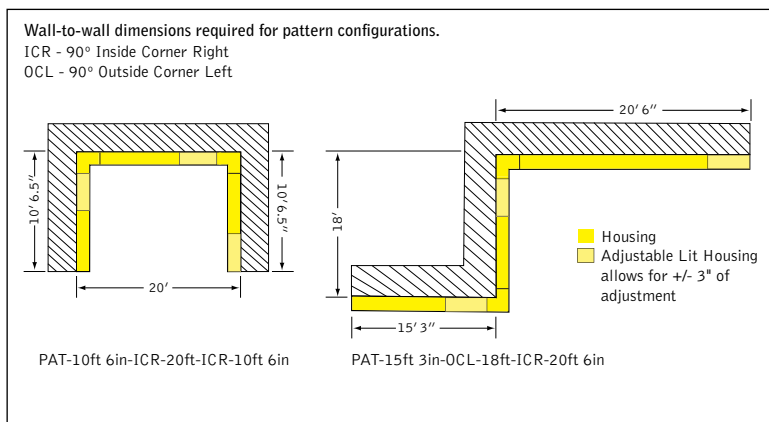
## FEATURES

- 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 flexibility 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



**PATTERN CONFIGURATIONS**



**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%.

**STANDARD WHITE**

- 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 LHI.)
- 625 Lumens per foot **625LF**
- (3' minimum with LHI.)
- 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
- 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 (LDEI) - 1% Dimming **LH1**
- DALI 1% Dimming **D11**
- Wattstopper DLM - 1% Dimming\* **DLM1**
- (Not available with CP)
- Wattstopper Fixture Sensor\* **LMFS1**
- Low Density - 1% Dimming
- (Remote mounted sensor. See sensor layout guide.)
- Wattstopper Fixture Sensor\* **LMFSD**
- High Density - 1% Dimming
- (Remote mounted sensor. See sensor layout guide.)
- Acuity nLight - 1% Dimming\* **NLT1**
- (Not available with CP)
- Enlighted Smart Sensor - 1% Dimming\* **ENL1**
- (Remote mounted sensor. See sensor layout guide.)
- Encelium CLM Connected Lighting\* **CLM1**
- Module - 1% Dimming
- Current NX Enabled - 1% Dimming\* **NXE1**
- (Not available with CP)
- WaveLinux Pro - 1% Dimming\* **WLXP**
- (Remote mounted sensor. See sensor layout guide.)
- (3' minimum length, 7' minimum length with FXH & EM. Not available with ALH & EM. G & ST mounting only.)
- Mounting**
- Flush (FL0, GR0 & AF0) **G**
- Lay-in Grid **ST**
- Slot Tee / Tegular **TF**
- Trim Flange Drywall **XF**
- Mud-in Trimless Drywall **XFF**
- Regressed (AF1, FL1, FL2, FL4, GR1, GR2 & GR4) **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) **FN1**
- 6' New York City Flex Whip (277V only) **FN2**
- 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**
- Matte White Housing **WH**
- Luminaire Length**
- 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-IC-120-LD1-G-WH-PAT-10-ICR-20-ICR-10)

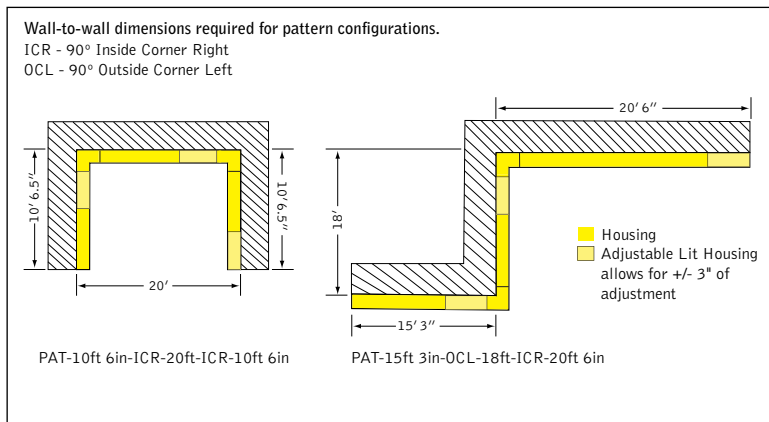


Options in orange qualify for the Quickship program. Run lengths in 1' increments, 1000' total. Refer to Quickship Guide for complete details.

fixture:

project:

**PATTERN CONFIGURATIONS**



**TW 4' PERFORMANCE CHARTS**

Lumen Output	Nominal Lumens	Tested System Watts	LPW			
			FL0	FL1	FL2	FL4
275LF	1100	13.30	83.2	80.3	77.5	74.8
375LF	1500	17.34	86.5	83.5	80.6	77.7
625LF	2500	27.84	89.5	86.4	83.4	80.5
875LF	3500	37.22	94.2	90.9	87.7	84.7
1000LF	4000	42.39	94.4	91.2	88.0	84.9

Based on 2700K, 80 CRI, 4' lengths. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

Lumen Output	Nominal Lumens	Tested System Watts	LPW					
			GR0	GR1	GR2	GR4	AF0	AF0
275LF	1100	13.30	89.8	87.2	84.7	82.1	93.4	87.7
375LF	1500	17.34	93.4	90.6	88.1	85.4	97.1	91.2
625LF	2500	27.84	96.7	93.9	91.2	88.4	100.5	94.4
875LF	3500	37.22	101.7	98.8	96.0	93.0	105.8	99.4
1000LF	4000	42.39	102.0	99.1	96.2	93.3	106.0	99.6

Based on 2700K, 80 CRI, 4' lengths. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

**Lumen Multipliers**

CRI	Multiplier
80+	1.00
90+	0.89

**Wattage Multipliers**

CCT	Multiplier
2700K	1.00
3000K	0.92
3500K	0.88
4000K	0.86
5000K	0.85
5700K	0.87
6500K	0.90



**TUNABLE WHITE**

- Luminaire Series** **FSM4PR**
- Seem 4 LED Perimeter
- 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 DITW. 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 multiple circuiting and zoning options \_C\_Z\_DL
- 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 DT6.)
- Acuity nLight - 1% Dimming\* NLT1
- (Not available with CP)
- Enlightened Smart Sensor - 1% Dimming\* ENL1
- (Remote mounted sensor. See sensor layout guide.)
- †(Consult factory)
- Mounting**
- Flush Lay-in Grid G
- (FL0, GR0 & AF0) Slot Tee / Tegular ST
- Trim Flange Drywall TF
- Mud-in Trimless Drywall XFF
- Regressed Grid G
- (AF1, FL1, FL2, Trimless Drywall XF
- & GR4)
- 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

## 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, ENL1, 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  
L90 > 61,000 hours  
Calculated: L70 at > 480,000 hours  
L90 at > 128,000 hours  
(Derived from EPA T M-21 calculator. Based on typical conditions, consult factory for additional data.)

### Reliability

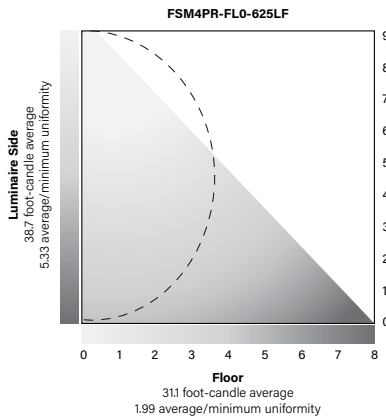
At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

### Warranty

LED system rated for operation in ambient environments up to 25°C. 5-year limited warranty.

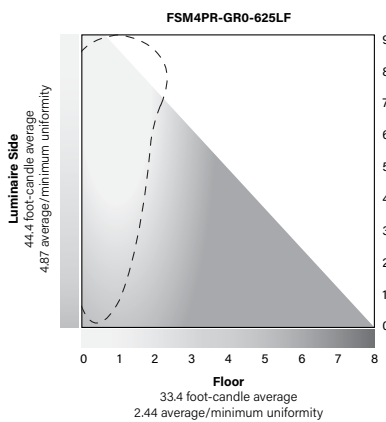
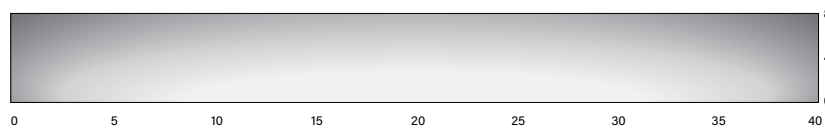
## SELECTING THE BEST OPTIC FOR EACH APPLICATION

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



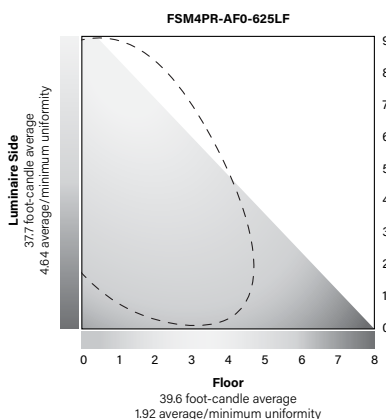
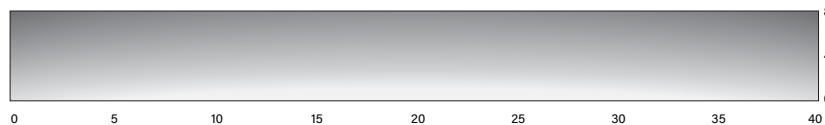
### Standard Lens

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.



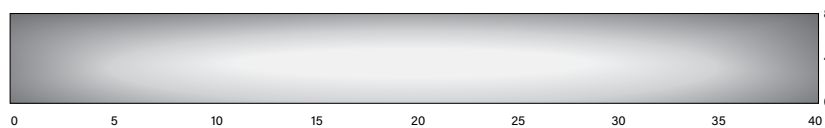
### Grazer Lens

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.



### 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.



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
 <b>legrand®</b> WATTSTOPPER®	DLM1	LMFC-011	DLM	DLM	Enabled	No	Wired 	<b>Advance by Signify</b> , Optotronic by eldoLED
	LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Enabled	No	Wireless	<b>Advance by Signify</b>
LMFSD	LMFS-601	Optotronic by eldoLED (Dexal)						
 <b>COOPER</b> Lighting Solutions	WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Enabled	No	Wireless (WaveLinx Pro Wireless Area Controller)	<b>Advance by Signify</b>
 <b>CRESTRON</b> <small>Connections located under access panel.</small>	D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled	No	Wired	eldoLED ECOdrive
	L11		0-10V					<b>Advance by Signify</b>
 <b>ENCELIUM</b>	CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled	No	Wireless	<b>Optotronic by eldoLED</b> Advance by Signify
 <b>Enlighted</b>	ENL1	SU-5E-IOT	Enlighted RF	Enlighted	Integrated	Yes	Wireless	<b>Advance by Signify</b>
 <b>LUTRON</b> <small>Connections located under access panel.</small>	LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled	No	Wired	<b>Lutron Hi-Lume</b>
 <b>nLIGHT</b> <small>Connections located under access panel.</small>	NLT1	nEPS-60-IO	nLight	nLight	Enabled	No	Wired 	<b>eldoLED ECOdrive</b> , eldoLED SOLOdrive
 <b>NX LIGHTING CONTROLS®</b> <small>NXE1 adds 100" to overall height.</small>	NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled	No	Wired 	<b>Optotronic by eldoLED</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.