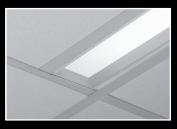
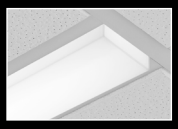
Seem® 4 Grid Ceiling

LED

FOCAL POINT®


regress lens

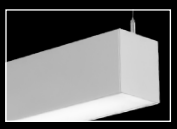

0.5" pop-down lens


1.5" pop-down lens


drywall/hard ceiling companion


wall to ceiling companion

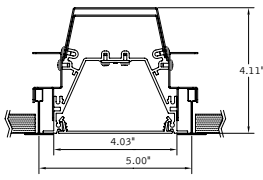

perimeter companion


suspended companion

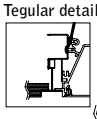
DIMENSIONAL DATA

Flush, Asymmetric & Batwing Options

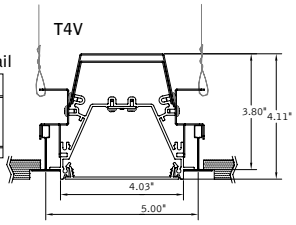
Lay-in



Tegular detail

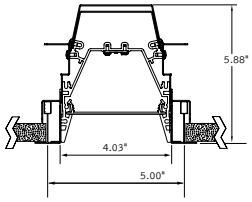


T4V

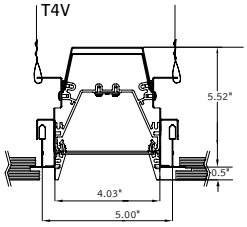


Regress Lens Options

Lay-in



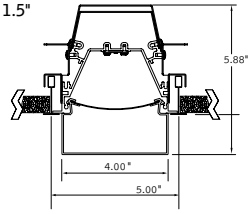
T4V



Pop-Down Lens Options

Lay-in

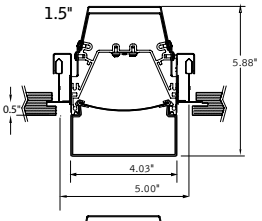
1.5"



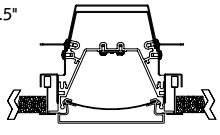
Tegular detail

T4V

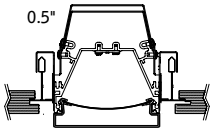
1.5"



0.5"



0.5"



FEATURES

4" aperture recessed slot LED integrates with grid ceilings for a clean, unobtrusive aesthetic.

Individual units and continuous runs in 1" increments.

Available in flush, asymmetric, asymmetric room fill, batwing, regress, 0.5" or 1.5" pop-down lens.

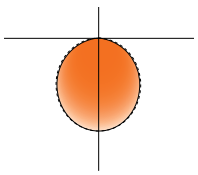
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

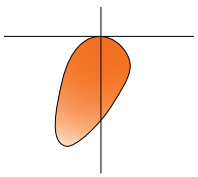
Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

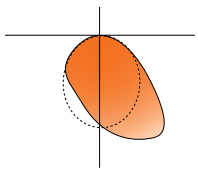
Connected Solutions: Integrates with wired and wireless building lighting control systems.

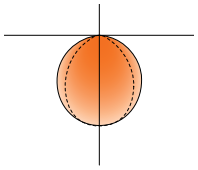
PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

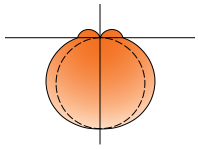
DISTRIBUTIONS

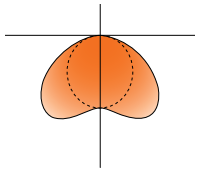

Flush Lens


Asymmetric Lens


Asymmetric Room Fill


Regressed Lens

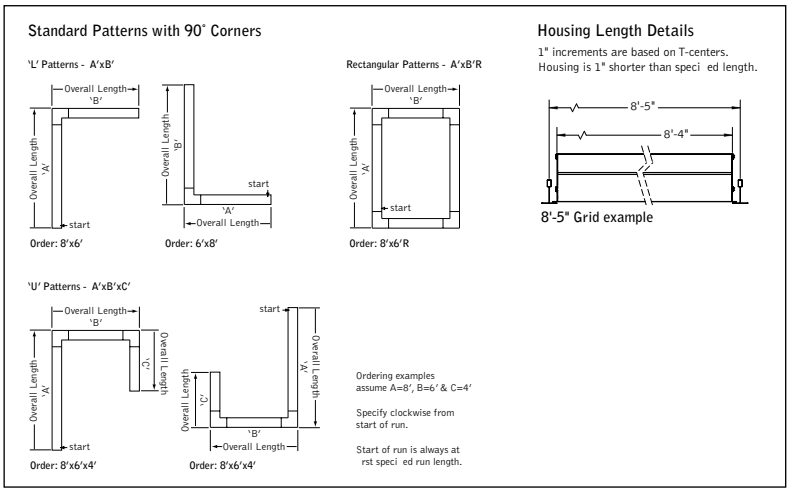

Pop-Down Lens


Batwing Lens

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

fixture: project:

DETAILS



4' PERFORMANCE CHART

		BW		FL		AS		AF	
Lumen Output	Nominal Lumens	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW
275LF	1100	8.8	125	9.1	121	8.5	130	8.6	128
375LF	1500	11.3	133	11.7	129	10.8	138	11.0	137
625LF	2500	19.0	131	19.7	127	18.3	137	18.5	135
875LF	3500	27.0	129	27.9	125	25.9	135	26.2	133
1000LF	4000	31.1	129	32.2	124	29.8	134	30.2	132
1125LF	4500	35.4	127	36.6	123	33.9	133	34.4	131
1250LF	5000	39.8	126	41.2	121	38.1	131	38.6	129

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

4' PERFORMANCE CHART - REGRESS

		SR		SRXP	
Lumen Output	Nominal Lumens	Tested System Watts	LPW	Tested System Watts	LPW
275LF	1100	9.4	117	8.7	127
375LF	1500	12.5	120	11.1	135
625LF	2500	21.1	118	18.7	134
875LF	3500	30.0	117	26.5	132
1000LF	4000	34.6	116	30.6	131
1125LF	4500	39.5	114	34.8	129
1250LF	5000	44.4	113	39.0	128

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

4' PERFORMANCE CHART - POP-DOWN

		0.5"		1.5"	
Lumen Output	Nominal Lumens	Tested System Watts	LPW	Tested System Watts	LPW
275LF	1100	11.0	100	11.9	93
375LF	1500	14.7	102	15.8	95
625LF	2500	25.0	100	27.0	93
750LF	3000	30.3	99	32.7	92
875LF	3500	35.7	98	38.6	91
1000LF	4000	41.3	97	44.7	89

Based on 3500K, 80 CRI, 4' lengths. Lumen multiplier: 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. 1000' total, 48' maximum per pattern section. Refer to Quickship Guide for complete details including EM/EC options.

STANDARD WHITE

Luminaire Series — FSM4L
- Seem 4 LED — FSM4L

Shielding
- Asymmetric Lens — AS
- Asymmetric Room Fill — AF
- Batwing Lens — BW
- Flush Satin Lens — FL
- Regress Lens — SR
- Regress High Performance Lens — SRXP
- 0.5" Pop-Down Lens (750LF max.) — PD05
- 1.5" Pop-Down Lens (750LF max. individual units only) — PD15

Lumen Output
- 275 Lumens per foot (Not available with LH1.) — 275LF
- 375 Lumens per foot (Not available with LH1.) — 375LF
- 625 Lumens per foot (BW, FL & SR 3' min. individual units only with LH1. SRXP 4' min. individual units only with LH1.) — 625LF
- 750 Lumens per foot (Pop-Down Lenses only) — 750LF
- 875 Lumens per foot (SR & SRXP 3' min. individual units only with LH1.) — 875LF
- 1000 Lumens per foot — 1000LF
- 1125 Lumens per foot — 1125LF
- 1250 Lumens per foot — 1250LF

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 6 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 (No driver. Not available with EM or EC. LV Voltage only.) — LVN
- Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming (625LF min.) — LH1
- DALI 1% Dimming (1000LF max.) — D11
- Wattstopper DLM - 1% Dimming** — DLM1
- Wattstopper Fixture Sensor Low Density –** 1% Dimming — LMFS1
- Wattstopper Fixture Sensor High Density –** 1% Dimming — LMFSD
- Lutron Athena Wireless Node** — LAW1
- Lutron Athena Wireless Sensor** — LAWS
- Acuity nLight - 1% Dimming** — NLT1
- Enlighted Smart Sensor - 1% Dimming** — ENL1
- Encelium CLM Connected Lighting Module -** 1% Dimming — CLM1
- Current NX Enabled – 1% Dimming** — NXE1
- WaveLinx Pro – 1% Dimming** — WLXP

**(3' min. length. 7' min. length with ECD/EM. Not available with Pop-Down Lenses.) See sensor layout guide

Ceiling Configuration
- Std. 15/16" Lay-in **or** Std. 15/16" Tegular — G1 **or** T1
- Std. 9/16" Lay-in **or** Std. 9/16" Tegular — G2 **or** T2
- 9/16" Slot-tee Tegular — G3
- Tall 15/16" Lay-in **or** Tall 15/16" Tegular — G4 **or** T4
- Tall 15/16" Tegular for specialty ceilings (0.5" drop.) — T4V
- Tall 9/16" Lay-in **or** Tall 9/16" Tegular — G5 **or** T5
- Node 9/16" Tegular — T6

Factory Options (See page 6 for ordering details for DC, EC, EM & ECD.)
- Chicago Plenum (Not available with Flex Whip, DLM1, NLT1 or NXE1.) — CP
- Daylight Circuit — _DC
- Emergency Circuit — _EC
- Emergency Battery Pack† — _EM
- Emergency Control Device† — _ECD

†(4' minimum. 6' minimum with patterns. Not available at corners. 120/277 Volt only.)

- 6' New York City Flex Whip 120V **or** 277V — FNY1 **or** FNY2
- 6' Flex Whip — FW

Finish — WH
- Matte White Housing — WH

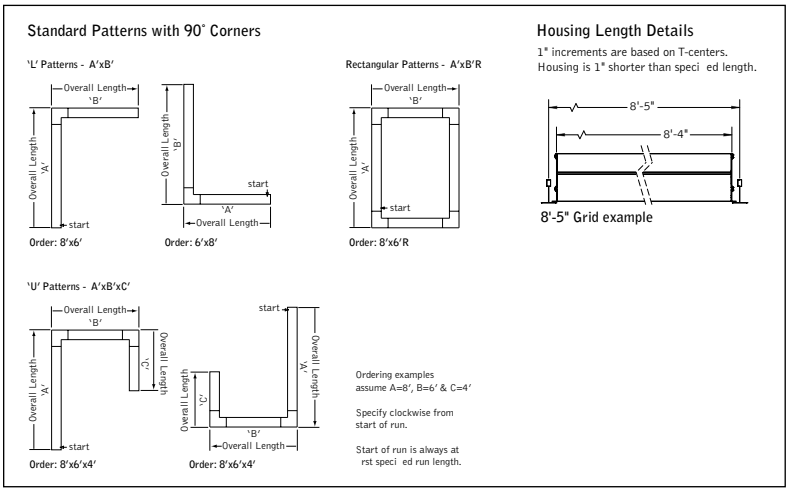
Luminaire Length — ft in
- Specify luminaire/row length in 1" increments — _ft _in

(2' minimum, lengths are nominal. 1" increments based on T-centers. Housing length is 1" shorter than specified. Leave blank for patterns. Smaller increments available, consult factory. Individual units cannot be joined in the field.)

Pattern Options (4' min. length. Not available with Pop-Down Lenses. Consult factory for other pattern options.)
- 'L' pattern — A' x B'
- 'U' pattern — A' x B' x C'
- Rectangular pattern — A' x B' R

fixture: project:

DETAILS



4' PERFORMANCE CHART

Lumen Output	Nominal Lumens	Tested System Watts	LPW BW	LPW FL
275LF	1100	13.30	87.1	84.9
375LF	1500	17.34	90.6	88.3
625LF	2500	27.84	93.8	91.4
875LF	3500	37.22	98.7	96.2
1000LF	4000	42.39	98.9	96.4
1125LF	4500	50.27	93.7	91.3

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

4' PERFORMANCE CHART - REGRESS

Lumen Output	Nominal Lumens	Tested System Watts	LPW SR	LPW SRXP
275LF	1100	14.72	74.4	88.6
375LF	1500	19.36	77.5	92.3
625LF	2500	31.47	79.6	94.8
875LF	3500	42.01	83.4	99.4
1000LF	4000	50.68	79.2	94.3

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

4' PERFORMANCE CHART - POP-DOWN

Lumen Output	Nominal Lumens	0.5" Tested System Watts	0.5" LPW	1.5" Tested System Watts	1.5" LPW
275LF	1100	17.14	59.7	16.33	65.7
375LF	1500	22.79	61.4	21.58	68.3
625LF	2500	35.49	65.2	33.96	72.0
750LF	3000	42.39	65.4	40.28	72.7

Based on 2700K, 80CRI, 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

		FSM4L
Luminaire Series		
Seem 4 LED	FSM4L	
Shielding		
Batwing Lens	BW	
Flush Satin Lens	FL	
Regress Lens (1000LF max.)	SR	
Regress High Performance Lens (1000LF max.)	SRXP	
0.5" Pop-Down Lens (750LF max.)	PD05	
1.5" Pop-Down Lens (750LF max. individual units only)	PD15	
Lumen Output		
275 Lumens per foot (BW, FL, SR & SRXP 3' min. with D1TW. SR, SRXP, PD05 & PD15 3' min. with LT1. FL & BW 4' min. with LT1.)	275LF	
375 Lumens per foot (BW, FL, SR & SRXP 3' min. with LT1.)	375LF	
625 Lumens per foot	625LF	
750 Lumens per foot (Pop-Down Lenses only)	750LF	
875 Lumens per foot	875LF	
1000 Lumens per foot	1000LF	
1125 Lumens per foot	1125LF	
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 6 for multiple circuiting and zoning options	_C_Z_DL	
Voltage		UNV
120/277 UNV Volt	UNV	
Control System & Dimming Level		
Lutron T-Series - 1% Dimming	LT1	
DALI 1% Dimming (DT6 control. Requires two addresses, one for intensity & one for CCT tuning. Consult factory for DT8.)	D1TW	
Lutron Athena Wireless Sensor**	LAWS	
Acuity nLight - 1% Dimming**	NLT1	
Enlighted Smart Sensor - 1% Dimming** (**Consult factory. Not available with Pop-Down Lenses.) See sensor layout guide	ENL1	
Ceiling Configuration		
Std. 15/16" Lay-in **or** Std. 15/16" Tegular	G1 **or** T1	
Std. 9/16" Lay-in **or** Std. 9/16" Tegular	G2 **or** T2	
9/16" Slot-tee Tegular	G3	
Tall 15/16" Lay-in **or** Tall 15/16" Tegular	G4 **or** T4	
Tall 15/16" Tegular for specialty ceilings (0.5" drop.)	T4V	
Tall 9/16" Lay-in **or** Tall 9/16" Tegular	G5 **or** T5	
Node 9/16" Tegular	T6	
Factory Options (See page 6 for ordering details for DC, EC, EM & ECD.)		
Chicago Plenum (Not available with Flex Whip, NLT1 or NXE1.)	CP	
Daylight Circuit	_DC	
Emergency Circuit	_EC	
Emergency Battery Pack†	_EM	
Emergency Control Device† (†Consult factory.)	_ECD	
6' New York City Flex Whip 120V **or** 277V	FNY1 **or** FNY2	
6' Flex Whip	FW	
Finish		WH
Matte White Housing	WH	
Luminaire Length		ft in
Specify luminaire/row length in 1" increments (2' minimum, lengths are nominal. 1" increments based on T-centers. Housing length is 1" shorter than specified. Leave blank for patterns. Smaller increments available, consult factory. Individual units cannot be joined in the field.)	_ft _in	
Pattern Options (4' min. length. Not available with Pop-Down Lenses. Consult factory for other pattern options.)		
'L' pattern	A' x B'	
'U' pattern	A' x B' x C'	
Rectangular pattern	A' x B' R	

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 are replaceable from below. Asymmetric, Flush, Batwing and Pop-Down lenses driver access from above. Regress lens driver access from below.

Construction
One piece extruded aluminum housing. 20 Ga. steel end caps. Steel driver compartment, flush lens only. Flush, Batwing and Pop-Down lens weights: 4' unit: 11 lbs., 8' unit: 22 lbs. Regress lens weights: 4' unit: 20 lbs., 8' unit: 40 lbs.

Optic
Asymmetric, Flush, Batwing lens extruded acrylic .085" thick with satin finish up to 8' continuous. Pop-Down lens extruded acrylic .06" thick with frosted finish, up to 8' continuous. Regress lens .118" thick acrylic lay-in lens. 22 Ga. reflector finished in High Reflectance White powder coat.

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. 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
Emergency Battery 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.

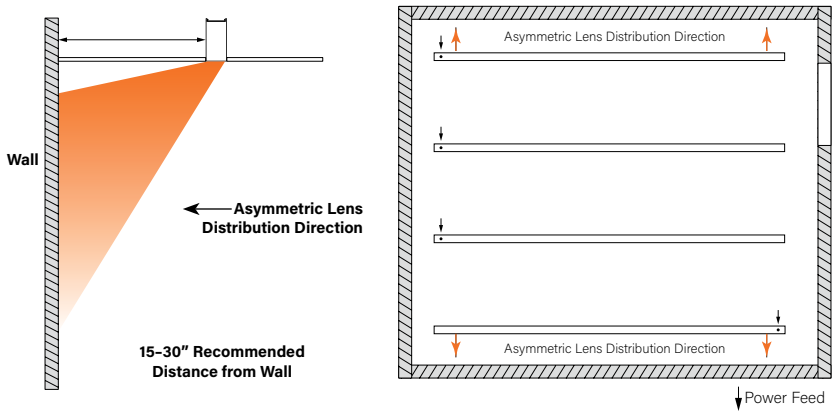
Finish
Polyester powder coat applied over a multi-stage pre–treatment.

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 TM-21 calculator. Based on typical conditions, consult factory for additional data.

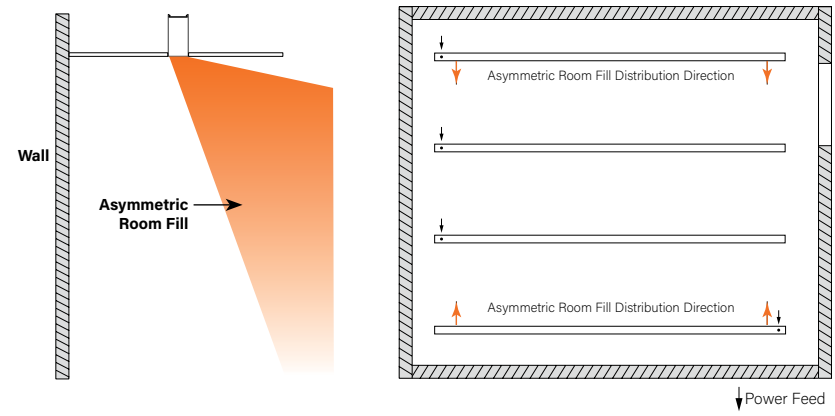
Reliability
At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

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

DIRECT ASYMMETRIC
Standard Application Example



DIRECT ASYMMETRIC ROOM FILL
Standard Application Example

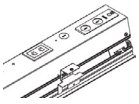
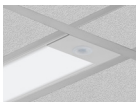
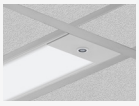
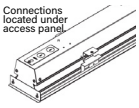
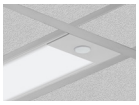
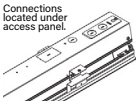
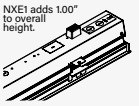


CONNECTED® SOLUTIONS

Seem® 4

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	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		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**
		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.

Ordering Guide

Direct Only Linear Circuitry, Zones & Factory Options

FOCAL POINT®

HOW TO USE THIS GUIDE

Fill out the worksheet on the following page to specify your requirements for circuitry, zones, and factory options.

Refer to the run chart for standard run configurations, consult factory for custom configurations.

Complete the Totals / Ordering Codes at the bottom of the worksheet and add to your ordering logic on the cut sheet.

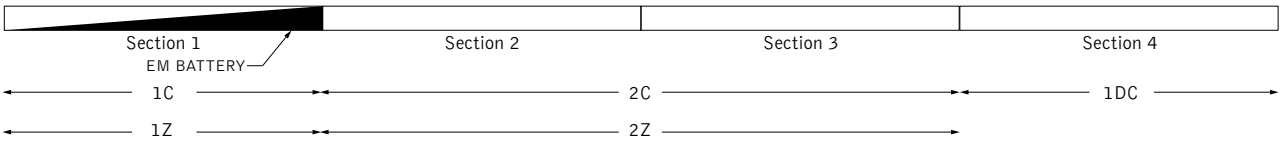
Submit the worksheet along with your order.

EXAMPLE

TOTAL RUN LENGTH: 32ft **JOB NAME:** _____ **FIXTURE TYPE:** _____

HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
					SEPARATE ELECTRICAL FEEDS			EM
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	
1	8	1C	1Z					1EM
2	8	2C	2Z					
3	8	2C	2Z					
4	8				1DC			
Totals / Ordering Codes		2C	2Z		1DC			1EM

ORDERING: FSM4L-FL-625LF-35K- **2C2Z** -UNV-LD1-G2- **1DC-1EM** -WH-32ft



KEY	
C = Switching Circuit Switched Hot / Shared Neutral	**DC = Daylight Circuit** Switched Hot / Separate Neutral
Z = Dimming Zone Dimming Control Wires	**EC = Emergency Circuit** Switched Hot / Separate Neutral
DL = Daylight Zone Daylight Dimming Control Wires	**EM = Emergency Battery** Unswitched Hot / Shared Neutral
	ECD = Emergency Control Device Unswitched Hot / Separate Neutral

DEFAULTS

- Zones and Factory Options illuminate entire sections from 4' to 8' in length.
- One shared or isolated circuit and zone required per housing section.
- Limit of one EM or ECD per housing section.
- Additional electrical feed required for applications greater than three shared circuits and zones.
- Each DC, EC and ECD require an additional electrical feed.
- ECD not available in the same housing section as EC.
- Longer lead times and additional pricing may apply for custom run configurations.

CUSTOM LENGTHS

- If partial illumination of emergency or daylight section is required, indicate in ordering guide and add "partial illumination" in Order Notes. Drawing required.
- Engineering validation required, longer lead times may apply.

Ordering Guide Worksheet

Linear Circuitry, Zones & Factory Options

FOCAL POINT®

WORKSHEET

TOTAL RUN LENGTH: _____ **JOB NAME:** _____ **FIXTURE TYPE:** _____

HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			
					SEPARATE ELECTRICAL FEEDS			EM
		SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Totals / Ordering Codes		_C	_Z	_DL	_DC	_EC	_ECD	_EM

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

RUN CHART

Run length (ft)	Housing Configuration Section Lengths
9	5 + 4
10	6 + 4
11	7 + 4
12	8 + 4
13	8 + 5
14	8 + 6
15	8 + 7
16	8 + 8
17	8 + 5 + 4
18	8 + 6 + 4
19	8 + 7 + 4
20	8 + 8 + 4

Run length (ft)	Housing Configuration Section Lengths
21	8 + 8 + 5
22	8 + 8 + 6
23	8 + 8 + 7
24	8 + 8 + 8
25	8 + 8 + 5 + 4
26	8 + 8 + 6 + 4
27	8 + 8 + 7 + 4
28	8 + 8 + 8 + 4
29	8 + 8 + 8 + 5
30	8 + 8 + 8 + 6
31	8 + 8 + 8 + 7
32	8 + 8 + 8 + 8

Run length (ft)	Housing Configuration Section Lengths
33	8 + 8 + 8 + 5 + 4
34	8 + 8 + 8 + 6 + 4
35	8 + 8 + 8 + 7 + 4
36	8 + 8 + 8 + 8 + 4
37	8 + 8 + 8 + 8 + 5
38	8 + 8 + 8 + 8 + 6
39	8 + 8 + 8 + 8 + 7
40	8 + 8 + 8 + 8 + 8
41	8 + 8 + 8 + 8 + 5 + 4
42	8 + 8 + 8 + 8 + 6 + 4
43	8 + 8 + 8 + 8 + 7 + 4
44	8 + 8 + 8 + 8 + 8 + 4

Run length (ft)	Housing Configuration Section Lengths
45	8 + 8 + 8 + 8 + 8 + 8 + 5
46	8 + 8 + 8 + 8 + 8 + 8 + 6
47	8 + 8 + 8 + 8 + 8 + 8 + 7
48	8 + 8 + 8 + 8 + 8 + 8 + 8

Standard run configurations, consult factory for custom configurations.