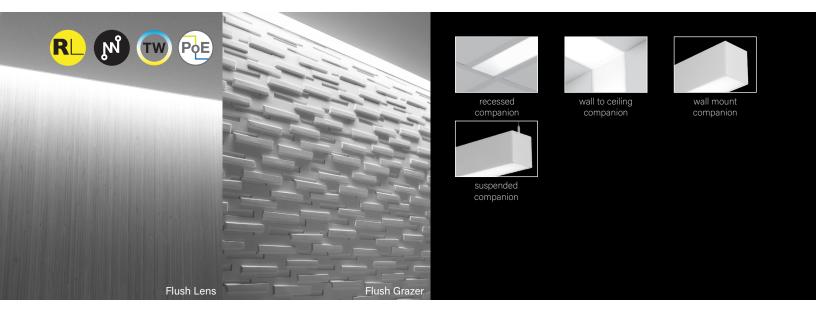
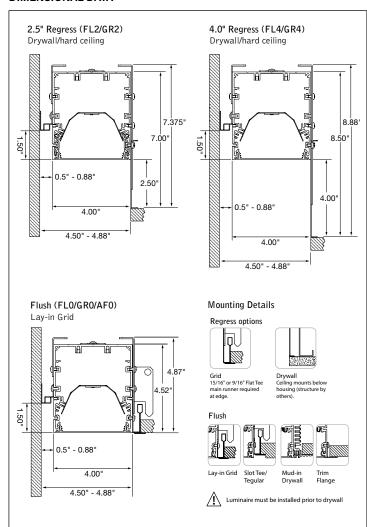
Seem[®] 4





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.

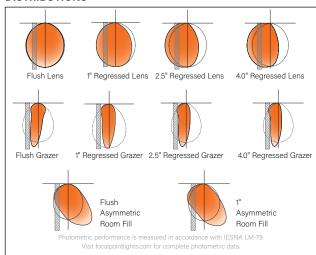
Adjustable housing option provides flexibility with +/- 3 inch adjustability for wall-to-wall illumination.

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

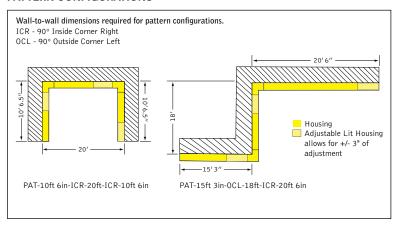
Connected Solutions: Integrates with wired and wireless building lighting control systems.

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

DISTRIBUTIONS



PATTERN CONFIGURATIONS



4' PERFORMANCE CHARTS

		FL0		FL1		FL2		FL4	
Lumen Output			LPW	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW
275LF	1100	9.1	121	9.2	119	10.0	110	9.8	112
375LF	1500	11.7	129	11.7	128	13.2	114	12.5	120
625LF	2500	19.7	127	18.9	133	22.2	113	21.0	119
875LF	3500	27.9	125	27.5	127	31.4	111	29.7	118
1000LF	4000	32.2	124	31.6	126	36.4	110	34.3	117

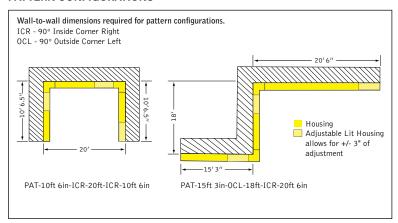
Based on 3500K, 80 CRI, 4' lengths. Lumen multipliers: 90+ CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

		GR	0	GF	11	GF	R2	GR	4	AF	0	AF	1
Lumen Output	Nominal Lumens	Tested System Watts	LPW										
275LF	1100	8.8	125	8.7	126	9.0	122	9.2	119	8.7	127	8.8	125
375LF	1500	11.1	135	11.0	136	11.4	132	11.7	128	10.9	137	11.1	135
625LF	2500	17.8	140	17.6	142	18.2	137	18.8	133	17.5	143	17.9	140
875LF	3500	25.8	135	25.5	137	26.5	132	27.4	128	25.3	138	25.9	135
1000LF	4000	29.7	135	29.3	136	30.4	131	31.6	127	29.1	137	29.8	134

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

STANDARD WHITE		
Luminaire Series Seem 4 LED Perimeter	FSM4PR	FSM4PR
Housing Type Adjustable Lit Housing	ALH	
(Allows for +/- 3" adjustment to overall run length. 3' minimum luminaire length.) Fixed Housing (not recommended for wall to wall installations)	FXH	
Shielding Flush Lens* 1.0" Regress	FL0 FL1	
2.5" Regress 4.0" Regress	FL2 FL4	
Flush Grazer* 1.0" Regress Grazer	GR0 GR1	
2.5" Regress Grazer 4.0" Regress Grazer	GR2 GR4	
Flush Asymmetric Room Fill 1.0" Regress Asymmetric Room Fill	AF0 AF1	
*(Not available with Unlit Sliding Sleeves - SSB) Lumen Output	0751.5	
275 Lumens per foot (Not available with Lutron Drivers.) 375 Lumens per foot	275LF 375LF	
(Not available with LH1.) 625 Lumens per foot	625LF	
(3' minimum with LH1.) 875 Lumens per foot	875LF	
1000 Lumens per foot Color Temperature	1000LF	
2700K, 80+ CRI or 90+ CRI 3000K, 80+ CRI or 90+ CRI	27K or 927K 30K or 930K	
3500K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI	35K or 935K 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 Control System & Dimming Level	LV	
0-10V - 10% Dimming 0-10V - 1% Dimming	LD1 L11	
Low Voltage, PoE compatible (No driver. Not available with EM or EC. LV Voltage only.)	LVN	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming DALI 1% Dimming	LH1 D11	
Wattstopper DLM - 1% Dimming* (Not available with CP)	DLM1	
Wattstopper Fixture Sensor*	LMFS1	
Low Density – 1% Dimming (Remote mounted sensor, See sensor layout guide) Wattstopper Fixture Sensor* High Density – 1% Dimming	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* (Remote mounted sensor. See sensor layout guide)	ENL1	
Encelium CLM Connected Lighting* Module - 1% Dimming	CLM1	
Current NX Enabled – 1% Dimming* (Not available with CP) WaveLinx Pro – 1% Dimming*	NXE1	
(Remote mounted sensor. See sensor layout guide) *(3' minimum length. 7' minimum length with FXH & EM.	WLXP	
Not available with ALH & EM. G & ST mounting only.) Mounting		
Flush Slot Tee / Tegular (FL0, GR0 Trim Flance Driving)	G ST	
& AF0) Trim Flange Drywall Mud-in Trimless Drywall	TF XFF	
Regressed Grid (AF1, FL1, FL2, Trimless Drywall	G XF	
FL4, Gr1, GR2 & GR4)		
Factory Options (See Ordering Guide on page 5 for ordering details for DC, EC, EM & ECD.)		
Chicago Plenum (Not available with flex whip)	СР	
Daylight Circuit	_DC	
Emergency Circuit Emergency Battery Packt	_EC EM	
Emergency Control Devicet	_ECD	
6' New York City Flex Whip (120V only) 6' New York City Flex Whip (277V only)	FNY1 FNY2	
6' Flex Whip	FW	
Fixed Housing with Unlit Sliding Sleeves (Set of two unlit 12" sleeves. Fixed housing in straight runs only, FL2, FL4, GR2 & GR4 only. 3" minimum luminiare length.) Finish	SSB	WH
Matte White Housing	WH	ft in
Luminaire Length Specify luminaire/row length in 1" increments (2' minimum length)	_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

PATTERN CONFIGURATIONS



4' PERFORMANCE CHARTS

				LI	PW	
Lumen Output	Nominal Lumens	Tested System Watts	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%

			LPW							
Lumen Output	Nominal Lumens	Tested System Watts	GRO	GR1	GR2	GR4	AF0	AFO		
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

Multiplier
1.00
0.92
0.88
0.86
0.85
0.87
0.90

TUNABLE WHITE Luminaire Series FSM4PR Seem 4 LED Perimeter FSM4PR **Housing Type** Adjustable Lit Housing ALH (Allows for +/- 3" adjustment to over 3' minimum lum Fixed Housing (not recommended for wall to wall installations) Shielding Flush Lens*
1.0" Regress
2.5" Regress
4.0" Regress
Flush Grazer* FL0 FL1 FL2 FL4 GR0 1.0" Regress Grazer 2.5" Regress Grazer GR1 GR2 4.0" Regress Grazer

4.0" Regress Grazer

Flush Asymmetric Room Fill

1.0" Regress Asymmetric Room Fill

*(Not available with Unlit Sliding Sleeves - SSR) GR4 AF0 AF1 **Lumen Output** 275 Lumens per foot 275LF in with D1TW. 4' min with LT1.) 375 Lumens per foot (3' min with LT1.) 375LF (3' min with Li Li)
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 UNV Voltage 120/277 UNV Volt UNV **Control System & Dimming Level** DALI - 1% Dimming (DT6 control. Requires two addresses, one for intensity & one for CCT tuning. Consult factory for DT8.)

Acuity nLight - 1% Dimming+
(Not available with CP.) NLT1 Enlighted Smart Sensor - 1% Dimming+ ENL1 †(Consult factory) Mounting Lay-in Grid Slot Tee / Tegular Trim Flange Drywall G ST TF Flush (FL0, GR0 & AF0) Mud-in Trimless Drywall XFF Regressed Grid (AF1, FL1, FL2, FL4, Gr1, GR2 & GR4) Trimless Drywall **Factory Options** (See Ordering Guide on page 5 for ordering details for DC, EC, EM & ECD.) Chicago Plenum CP 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 luminiare length.) Finish WH Matte White Housing WH **Luminaire Length** in

Specify luminaire/row length in 1" increments (2' minimum length) **Pattern Options**

Specify patterns based on wall-to-wall dimensions (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.

Optio

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.

Flectrical

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

(Derived from EPA T M-21 calculator. Based on typical conditions, consult factory for additional data.)

Reliability

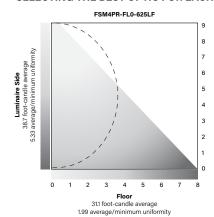
At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

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

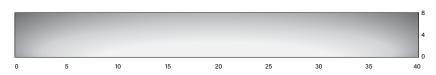
SELECTING THE BEST OPTIC FOR EACH APPLICATION

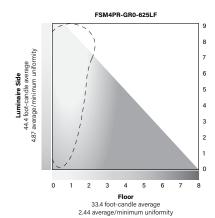
8' W x 40' L x 9' H Corridor | 80/50/20 Reflectances | 0.9 Light Loss Factor



Standard Lens

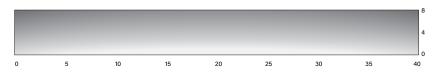
The standard optic results in a Lambertian light distribution that provides uniform illumination. It is ideal to create a glowing transition between the walls and ceiling, adding dimension to the space.

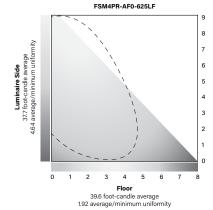




Grazer Lens

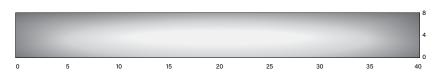
The grazer optic closely grazes walls, highlighting textures and architectural details. It is intended to provide even illumination and deliver maximum visual impact on the vertical surfaces.





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.





Seem 4 Perimeter

I FD

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
La legrand ®	DLM1	LMFC-011	DLM	DLM	Enabled	No	Wired	Advance by Signify, Optotronic by eldoLED
WATTSTOPPER*	LMFS1	LMFS1 LMFS-601 & LMFI-111		DLM	Enabled	No	Wireless	Advance by Signify
	LMFSD	LMFS-601	Wireless	DEW	Litabled	NO	Wileless	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	DALI	Crestron Zūm Wireless &	Enabled	No	Wired	eldoLED ECOdrive
Connections located under access pariel.	L11	Driver	0-10V	SpaceBuilder				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
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
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



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.

	TOTAL RUN	LENGTH:	32ft	JOB NAME:			FIXTURE TYPE: _		
			SHA	RED ELECTRICAL F	EED,		FACTORY OPTIONS		
		SECTION		NORMAL POWER		SEPARAT	SEPARATE ELECTRICAL FEEDS	os	ЕМ
m		LENGTH	SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	
EXAMPL	1	8	1C	1Z					1EM
Ę	2	8	2C	2Z					
	3	8	2C	2Z					
	4	8				1DC			
	Totals / Ord	ering Codes	2C	2 Z		1DC			1EM

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

Section 1 EM BATTERY	Section 2	Section 3	Section 4
← 1C ←	2	c —	1DC
1Z	2	Z	

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®

	TOTAL RUN	LENGTH:		JOB NAME:		FIXTURE TYPE:						
			SHAR	ED ELECTRICAL F	EED,		FACTORY OPTI	ONS				
	HOUSING SECTION	SECTION LENGTH		NORMAL POWER			TE ELECTRICAL FE	EDS				
	SECTION	LENGTH	SWITCHING CIRCUIT	DIMMING ZONE	DAYLIGHT ZONE	DAYLIGHT CIRCUIT	EMERGENCY CIRCUIT	ECD	EM			
	1											
	2											
	3											
	4											
	5											
	6											
	7											
WOF	8											
WORKSHEET	9											
ET	10											
	11											
	12											
	13											
	14											
	15											
	16											
	17											
	18											
	19											
	20											
	Totals / Ord	ering Codes										

Combine to create Circuits & Zones ordering code

Enter as individual Factory Options

RUN CHART

HOW CHAIT					
Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths	Run length (ft)	Housing Configuration Section Lengths
9	5 + 4	21	8 + 8 + 5	33	8 + 8 + 8 + 5 + 4
10	6 + 4	22	8 + 8 + 6	34	8 + 8 + 8 + 6 + 4
11	7 + 4	23	8 + 8 + 7	35	8 + 8 + 8 + 7 + 4
12	8 + 4	24	8 + 8 + 8	36	8 + 8 + 8 + 8 + 4
13	8 + 5	25	8 + 8 + 5 + 4	37	8 + 8 + 8 + 8 + 5
14	8 + 6	26	8 + 8 + 6 + 4	38	8 + 8 + 8 + 8 + 6
15	8 + 7	27	8 + 8 + 7 + 4	39	8 + 8 + 8 + 8 + 7
16	8 + 8	28	8 + 8 + 8 + 4	40	8 + 8 + 8 + 8 + 8
17	8 + 5 + 4	29	8 + 8 + 8 + 5	41	8 + 8 + 8 + 8 + 5 + 4
18	8 + 6 + 4	30	8 + 8 + 8 + 6	42	8 + 8 + 8 + 8 + 6 + 4
19	8 + 7 + 4	31	8 + 8 + 8 + 7	43	8 + 8 + 8 + 8 + 7 + 4
20	8 + 8 + 4	32	8 + 8 + 8 + 8	44	8 + 8 + 8 + 8 + 8 + 4

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

Standard run configurations, consult factory for custom configurations.