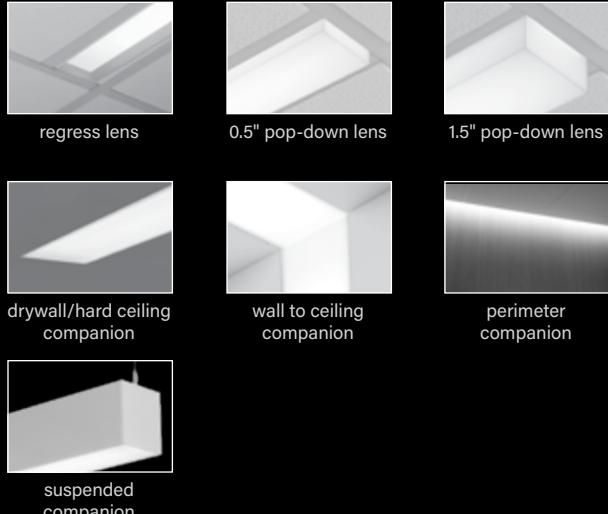
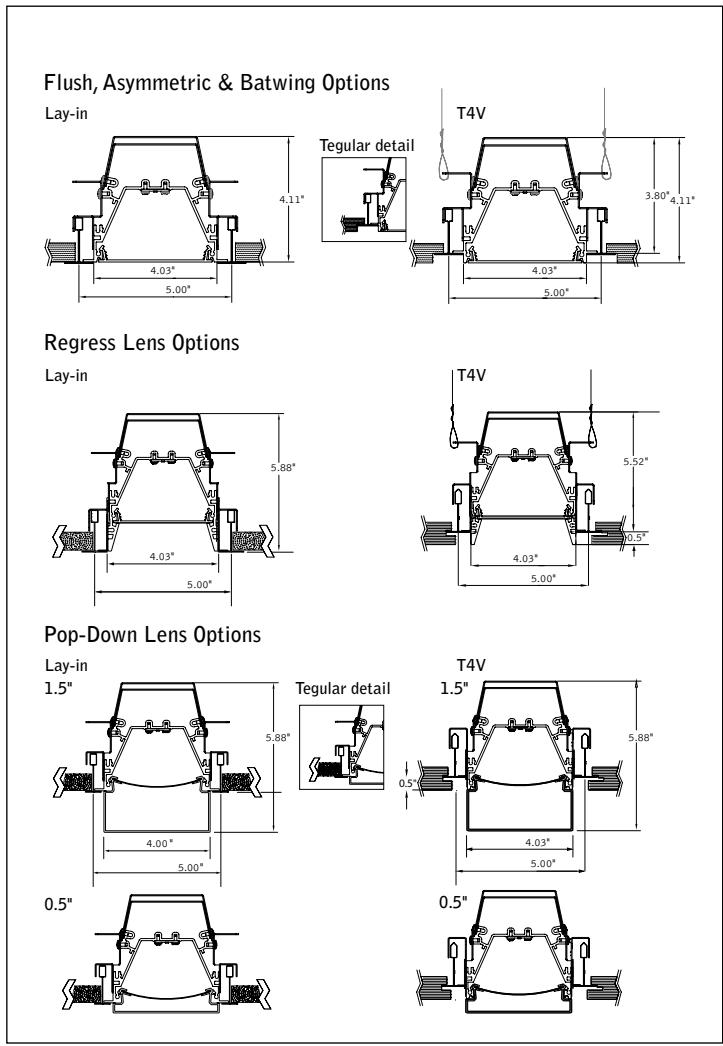


# Seem® 4 Grid Ceiling

LED



## DIMENSIONAL DATA



## 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.

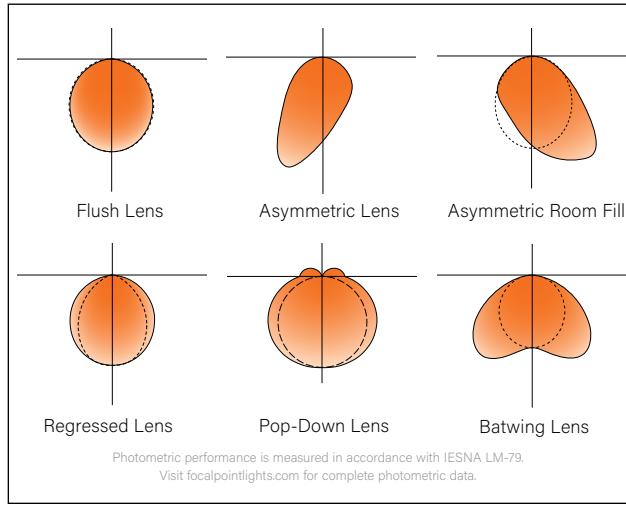
LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

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

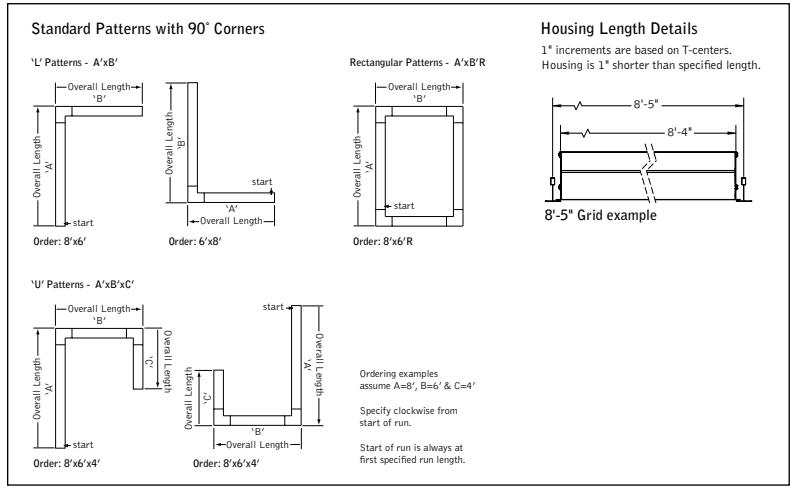
Connected Solutions: Integrates with wired and wireless building lighting control systems.

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

## DISTRIBUTIONS



## DETAILS



## 4' PERFORMANCE CHART

Lumen Output	Nominal Lumens	BW		FL		AS		AF	
		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

Lumen Output	Nominal Lumens	SR		SRXP	
		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

Lumen Output	Nominal Lumens	0.5"		1.5"	
		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%.



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

Seem 4 LED

### Shielding

Asymmetric Lens

Asymmetric Room Fill

Batwing Lens

Flush Satin Lens

Rgress Lens

Rgress High Performance Lens

0.5" Pop-Down Lens (750LF max.)

1.5" Pop-Down Lens (750LF max. individual units only)

### Lumen Output

275 Lumens per foot (Not available with LHT1)

375 Lumens per foot (Not available with LHT1)

625 Lumens per foot

(BW, FL & SR 3' min. individual units only with LHT1, SRXP 4' min. individual units only with LHT1)

750 Lumens per foot (Pop-Down Lenses only)

875 Lumens per foot

(SR & SRXP 3' min. individual units only with LHT1)

1000 Lumens per foot

1125 Lumens per foot

1250 Lumens per foot

### Color Temperature

2700K, 80+ CRI or 90+ CRI

3000K, 80+ CRI or 90+ CRI

3500K, 80+ CRI or 90+ CRI

4000K, 80+ CRI or 90+ CRI

### Circuits & Zones

1 Circuit, non-emergency

Consult Ordering Guide on page 6 for multiple circuiting and zoning options

### Voltage

120/277 UNV Volt

Low Voltage

### Control System & Dimming Level

0-10V - 10% Dimming

0-10V - 1% Dimming

Low Voltage, PoE compatible  
(No driver. Not available with EM or EC. LV Voltage only.)

Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming (625LF min.)

DALI 1% Dimming (1000LF max.)

Wattstopper DLM - 1% Dimming\*\*

Wattstopper Fixture Sensor Low Density -\*\*<sup>1</sup>  
1% Dimming

Wattstopper Fixture Sensor High Density -\*\*<sup>1</sup>  
1% Dimming

Lutron Athena Wireless Node\*\*<sup>2</sup>

Lutron Athena Wireless Sensor\*\*<sup>12</sup>

Acuity nLight - 1% Dimming\*\*

Encelium CLM Connected Lighting Module -\*\*  
1% Dimming

Current NX Enabled - 1% Dimming\*\*

WaveLinx Pro - 1% Dimming\*\*<sup>1</sup>

\*\*(3' min. length, 7' min. length with ECD/EM.)

(not available with pop-down lenses)

<sup>2</sup>(0-10V standard. Consult factory for DALI)

See sensor layout guide

### Ceiling Configuration

Std. 15/16" Lay-in or Std. 15/16" Tegular

Std. 9/16" Lay-in or Std. 9/16" Tegular

9/16" Slot-tee Tegular

Tall 15/16" Lay-in or Tall 15/16" Tegular

Tall 15/16" Tegular for specialty ceilings (0.5" drop)

Tall 9/16" Lay-in or Tall 9/16" Tegular

Node 9/16" Tegular

G1 or T1

G2 or T2

G3

G4 or T4

T4V

G5 or T5

T6

CP

DC

EC

EM

ECD

6' New York City Flex Whip 120V or 277V

6' Flex Whip

WH

ft in

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.)

### Pattern Options

(4' min. length. Not available with Pop-Down Lenses. Consult factory for other pattern options.)

'L' pattern

'U' pattern

Rectangular pattern

A' x B'

A' x B' x C'

A' x B' R

FSM4L

AS

AF

BW

FL

SR

SRXP

PD05

PD15

275LF

375LF

625LF

750LF

875LF

1000LF

1125LF

1250LF

27K or 927K

30K or 930K

35K or 935K

40K or 940K

1C

C\_Z\_DL

UNV

LV

LD1

L11

LVN

HL1

D11

DLM1

LMFS1

LMFSD

LAW1

LAWS

NLT1

CLM1

NXE1

WLXP

G1 or T1

G2 or T2

G3

G4 or T4

T4V

G5 or T5

T6

CP

DC

EC

EM

ECD

FNY1 or FNY2

FW

WH

ft in

ft in



## 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. Recessed 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. Recessed 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. Recessed lens .118" thick acrylic lay-in lens. 22 Ga. reflector finished in High Reflectance White powder coat.

### Electrical

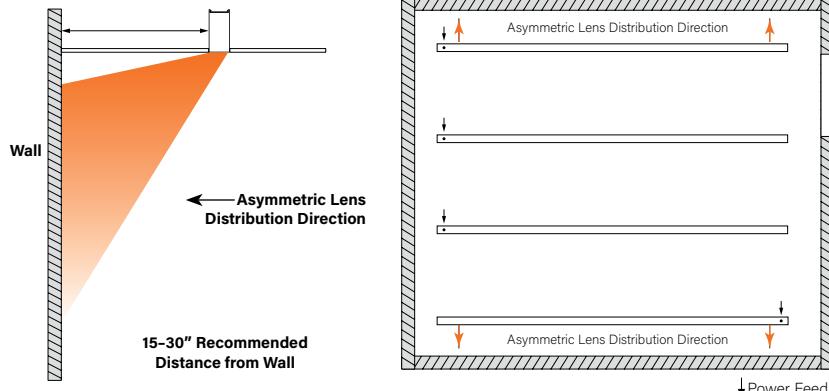
Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming. Power factor >.9. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires. PoE runs 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, CLM1, NXE1, WLXP) shipped standard with leads to connect UL924 compliant device, by others.

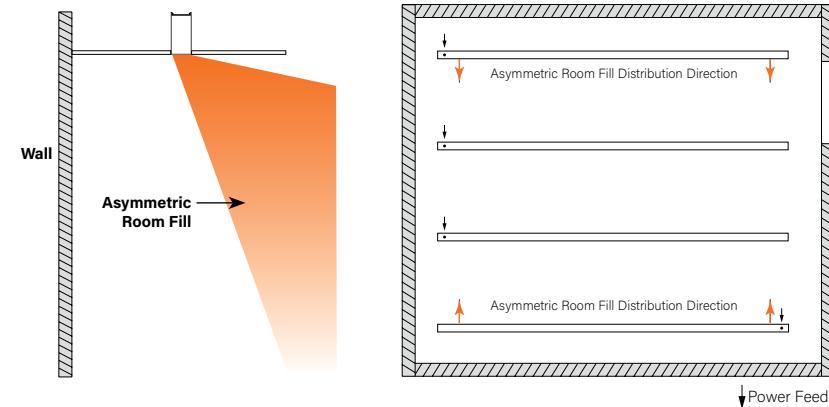
## DIRECT ASYMMETRIC

### Standard Application Example



## DIRECT ASYMMETRIC ROOM FILL

### Standard Application Example



### 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.

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.<sup>†</sup>

Connected Solution	Ordering Code	Model #*	Protocol	Compatible Networks*	Occupancy & Daylight	Temperature Reporting	Communication to Luminaire	Drivers	
 <b>WATTSTOPPER®</b>	DLM1	LMFC-011	DLM	DLM	Enabled <sup>1</sup>	No	Wired	<b>Advance by Signify, Optotronic by eldoLED</b>	
	LMFS1	LMFS-601 & LMFI-111	DLM Wireless	DLM	Integrated <sup>2</sup>	No	Wireless		
	LMFSD	LMFS-601							
	WLXP	OEM-WAA	WaveLinx Wireless	WaveLinx Pro Trellix	Integrated <sup>2</sup>	No	Wireless (WaveLinx Pro Wireless Area Controller)	<b>Advance by Signify</b>	
	D11	Specified Driver	DALI	Crestron Züm Wireless & SpaceBuilder	Enabled <sup>1</sup>	No	Wired	eldoLED ECODrive	
	L11		0-10V					<b>Advance by Signify</b>	
	CLM1	ZBHA-CLM-DIM-ENC	ZigBee	Encelium X Light Management System	Enabled <sup>1</sup>	No	Wireless	<b>Optotronic by eldoLED</b> Advance by Signify	
	LAW1	A-WN-D01-RF-WH	DALI, 0-10V	Athena Wireless	Enabled <sup>1</sup>	No	Wireless	<b>Advance by Signify</b>	
	LAWS	A-WN-D01-OCC-WH	DALI, 0-10V	Athena Wireless	Integrated <sup>2</sup>	No	Wireless	<b>Advance by Signify</b>	
	LH1	LDE1	EcoSystem	Quantum, Energi Savr Node, Energi TriPak	Enabled <sup>1</sup>	No	Wired	<b>Lutron Hi-Lume</b>	
	NLT1	nEPS-60-IO	nLight	nLight	Enabled <sup>1</sup>	No	Wired	<b>eldoLED ECODrive, eldoLED SOLOdrive</b>	
	NXE1	NXFM-LV	NX	NX Distributed Intelligence	Enabled <sup>1</sup>	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.

<sup>†</sup>Controls systems supplied by others. <sup>1</sup>Enabled: Fixture supplied with a Node/ Controller. Sensor to be provided by others. <sup>2</sup>Integrated: Fixture supplied with an installed Sensor.

# 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.

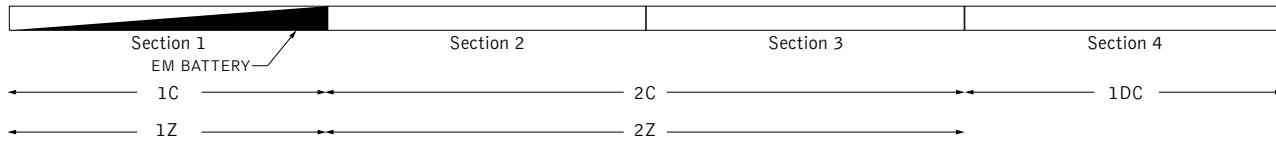
Refer to the run chart for standard run configurations, consult factory for custom configurations.

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.

EXAMPLE	TOTAL RUN LENGTH: <b>32ft</b>		JOB NAME: _____			Fixture Type: _____			
	HOUSING SECTION	SECTION LENGTH	SHARED ELECTRICAL FEED, NORMAL POWER			FACTORY OPTIONS			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			
	<b>Totals / Ordering Codes</b>		<b>2C</b>	<b>2Z</b>		<b>1DC</b>			<b>1EM</b>

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



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



WORKSHEET	TOTAL RUN LENGTH:		JOB NAME: _____			Fixture Type: _____		
	HOUSING SECTION	SECTION LENGTH	Shared Electrical Feed, Normal Power			FACTORY OPTIONS		
			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								
<b>Totals / Ordering Codes</b>								

Combine to create Circuits & Zones ordering code      Enter as individual Factory Options

## RUN CHART

Run length (ft)	Housing Configuration Section Lengths	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	45	8 + 8 + 8 + 8 + 8 + 5
10	6 + 4	22	8 + 8 + 6	34	8 + 8 + 8 + 6 + 4	46	8 + 8 + 8 + 8 + 8 + 6
11	7 + 4	23	8 + 8 + 7	35	8 + 8 + 8 + 7 + 4	47	8 + 8 + 8 + 8 + 8 + 7
12	8 + 4	24	8 + 8 + 8	36	8 + 8 + 8 + 8 + 4	48	8 + 8 + 8 + 8 + 8 + 8
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		

Standard run configurations, consult factory for custom configurations.