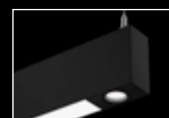


Seem® 1 Point Source

LED DIRECT/INDIRECT



Intermediate point source detail



Black finish



Surface Mount companion



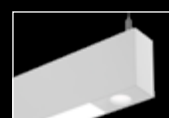
6" spacing



12" spacing



Start and end of run

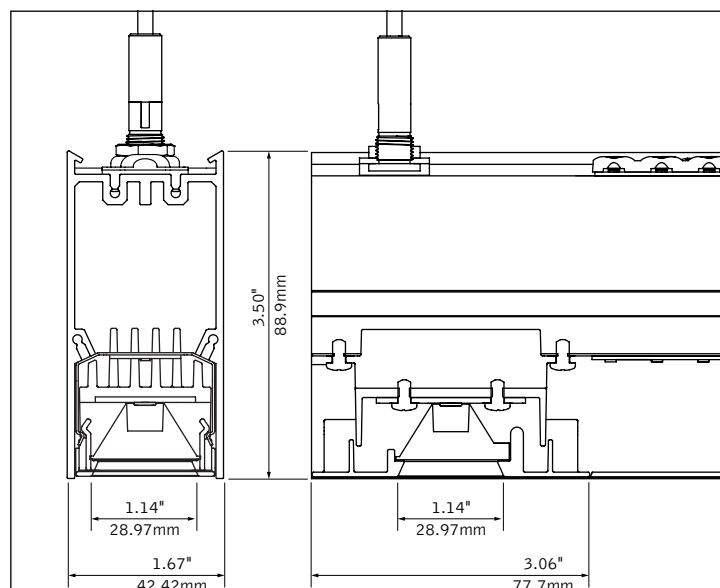


Direct suspended companions

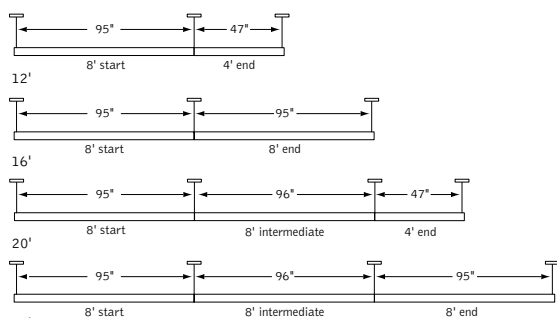


Recessed companions

DIMENSIONAL DATA



Mounting Information



Consult factory for additional row length information.

FEATURES

Narrow extruded aluminum nominal 1.5" linear direct/indirect illumination with integrated point source downlights.

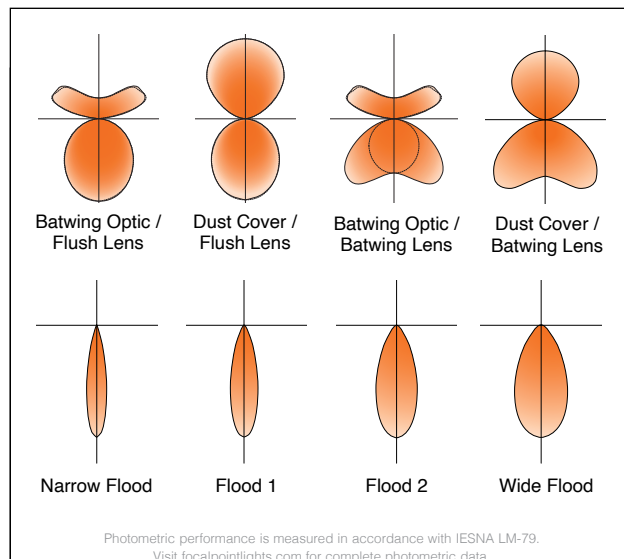
Individual units and continuous runs in 1' increments.

Frosted acrylic lenses provide uninterrupted illumination, without pixels or shadows.

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

Choice of output levels and light distributions to meet a wide variety of application needs.

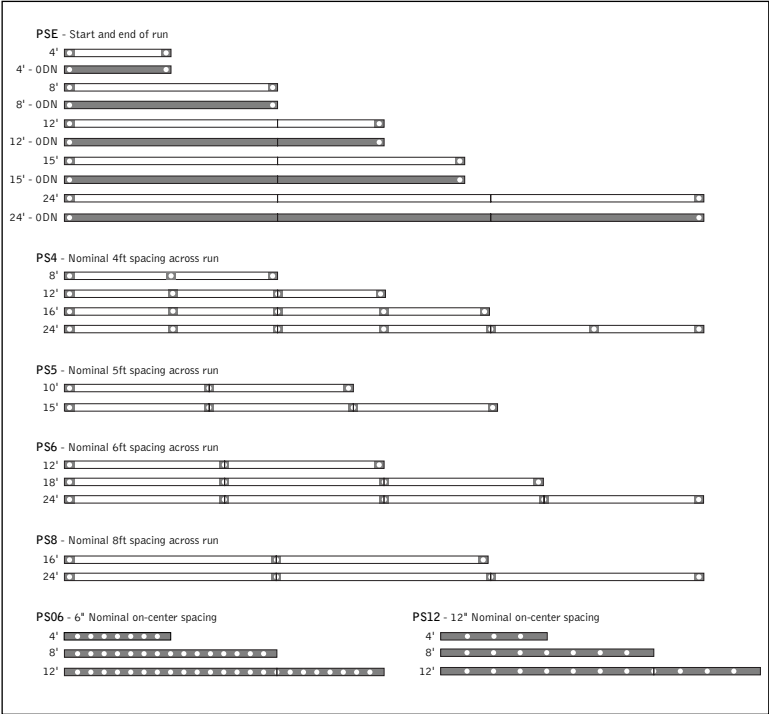
DISTRIBUTIONS



fixture:

project:

POINT SOURCE SPACING



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 both 80 and 90 CRI options. LED modules and drivers are replaceable from below. Color accuracy <3 SDCM.

Construction

One piece extruded aluminum housing. Cast aluminum end caps. 8' unit weight : 18.5lbs.

Optic

Reflectors fabricated of 22 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .085" thick with frosted 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. Power factor > .9.

Emergency Battery

Emergency output - 10 watts for 90 minutes. See EM/EC Guide for default locations and ordering details.

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

Linear Source

Reported: L70 at >61,000 hours
L90 at >61,000 hours
Calculated: L70 at 470,000 hours
L90 at 115,000 hours

Point Source

Reported: L70 at >55,000 hours
L90 at 54,000 hours
Calculated: L70 at 226,000 hours
L90 at 54,000 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.

PERFORMANCE CHARTS

See page 3.

ORDERING		FSM1DBS
Luminaire Series		
Seem 1 LED Point Source Direct/Indirect	FSM1DBS	
Shielding		
Dust Cover top/Flush lens bottom	DCFL	
Dust Cover top/Batwing lens bottom	DCBW	
Dust Cover top/Point Source only bottom	DCPS	
Batwing Optic top/Flush lens bottom	BWFL	
Batwing Optic top/Batwing lens bottom	BWBW	
Batwing Optic top/Point Source only bottom	BWPS	
Point Source Spacing		
All	Start and End of Run	PSE
DCFL, DCBW, BWFL & BWBW options only	Nominal 4ft Spacing (Consult factory for Lutron)	PS4
	Nominal 5ft Spacing	PS5
	Nominal 6ft Spacing	PS6
	Nominal 7ft Spacing	PS7
	Nominal 8ft Spacing	PS8
	Mixed Spacing (See point source spacing guide for more options.)	PSM
DCPS & BWPS options only	6" Nominal On-Center Spacing (250L & 350L only.)	PS06
	12" Nominal On-Center Spacing (Wider spacing available, consult factory.)	PS12
Point Source Lumens		
(Consult factory for Lutron with FL or BW shielding & PSE-ODN.)	250 Lumens (xxPS shielding only.)	250L
	350 Lumens	350L
	450 Lumens	450L
Point Source Distribution		
DCPS & BWPS options only	Narrow Flood	NFL
	Flood 1	FL1
	Flood 2	FL2
	Wide Flood	WFL
Linear Direct Distribution		
DCFL, DCBW, BWFL & BWBW options only	No linear direct, point source only	ODN
	125 Lumens per foot (5' minimum length. See spacing guide for PS4 limitations. Consult factory for Lutron.)	125DN
	250 Lumens per foot	250DN
	375 Lumens per foot	375DN
	500 Lumens per foot	500DN
	625 Lumens per foot	625DN
Linear Indirect Distribution		
(Circuit 1 = Indirect, Circuit 2 = All Direct sources.)	125 Lumens per foot (Consult factory for Lutron)	125UP
	250 Lumens per foot	250UP
	375 Lumens per foot	375UP
	500 Lumens per foot	500UP
	625 Lumens per foot	625UP
	800 Lumens per foot	800UP
Color Temperature	1000 Lumens per foot	1000UP
	2700K, 80CRI or 90 CRI	27K or 927K
	3000K, 80CRI or 90 CRI	30K or 930K
	3500K, 80CRI or 90 CRI	35K or 935K
	4000K, 80CRI or 90 CRI	40K or 940K
Circuit		
(Circuit 1 = Indirect, Circuit 2 = All Direct sources.)	Single Circuit	1C
	Dual Circuit	2C
	Triple Circuit (xxFL & xxBW shielding only)	3C
Voltage		
Control System & Dimming Level	120/277 UNV Volt	UNV
	347 Volt (LD1 driver only)	347
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming (5' min. length for xxBW & xxFL shielding)	0-10V - 10% Dimming	LD1
	0-10V - 1% Dimming	L11
		LH1
Mounting		
(Specify canopy color White (WH), Black (BK) or Titanium Silver (TS). Example: C24WH.) (Specify one of the following in place of "C" J - for 2' canopies at non-feed locations. CS - for sloped ceiling applications.)	24" Cable Suspension	C24_
	48" Cable Suspension	C48_
	96" Cable Suspension	C96_
Factory Options		
Emergency Circuit (direct linear only) (Direct linear only on xxBW & xxFL shielding. Not available for PSE-ODN.)	Black Cord	BKCD
		_EC
Emergency Battery Pack (6' min. length for xxBW & xxFL shielding, 5' min. length for xxPS shielding. See EM/EC Guide for default locations and ordering details.)		_EM
Finish		
Luminaire Length Specify luminaire/row length in 1' increments (4' minimum. Smaller increments available, consult factory.)	Black	BK
	Titanium Silver	TS
	Matte White Housing	WH

PERFORMANCE CHART (4' LINEAR AREA)

PERFORMANCE CHART (4' LINEAR AREA)					Batwing Optic Flush Lens			Dust Cover Flush Lens			Batwing Optic Batwing Lens			Dust Cover Batwing Lens	
Direct Distribution	Indirect Distribution	Distribution % (Direct/Indirect)	Total Lumen Output	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW		
125DN	125UP	50/50	1000	12	81	12	84	12	84	12	87	12	87		
	250UP	33/67	1500	16	96	15	98	16	99	15	101	15	101		
	375UP	25/75	2000	19	104	19	107	19	106	19	109	19	109		
	500UP	20/80	2500	23	111	22	114	23	112	22	116	22	116		
	625UP	17/83	3000	27	114	26	118	27	116	26	119	26	119		
	800UP	14/86	3700	33	114	32	118	33	115	32	119	32	119		
	1000UP	11/89	4500	40	115	38	119	40	116	38	120	38	120		
250DN	125UP	67/33	1500	16	94	16	97	16	94	16	97	16	97		
	250UP	50/50	2000	20	104	19	106	20	104	19	106	19	106		
	375UP	40/60	2500	23	109	23	112	23	109	23	112	23	112		
	500UP	33/67	3000	26	115	26	117	26	114	26	117	26	117		
	625UP	29/71	3500	30	117	30	120	30	117	30	120	30	120		
	800UP	24/76	4200	37	116	36	120	37	116	36	120	36	120		
	1000UP	20/80	5000	43	117	42	121	43	117	42	121	42	121		
375DN	125UP	75/25	2000	20	99	20	101	20	98	20	100	20	100		
	250UP	60/40	2500	24	106	24	108	24	106	24	107	24	107		
	375UP	50/50	3000	28	110	27	112	28	110	27	112	27	112		
	500UP	43/57	3500	31	115	30	117	31	114	30	117	30	117		
	625UP	38/62	4000	35	117	34	120	35	117	34	120	34	120		
	800UP	32/68	4700	41	116	40	120	41	116	40	119	40	119		
	1000UP	25/75	5500	48	117	47	121	48	117	47	120	47	120		
500DN	125UP	80/20	2500	25	101	24	103	25	101	24	103	24	103		
	250UP	67/33	3000	28	107	28	109	28	107	28	109	28	109		
	375UP	57/43	3500	32	111	31	112	32	111	31	113	31	113		
	500UP	50/50	4000	35	115	35	117	35	115	35	117	35	117		
	625UP	44/56	4500	39	117	38	119	39	117	38	119	38	119		
	800UP	38/62	5200	46	116	45	119	46	116	45	119	45	119		
	1000UP	33/67	6000	52	117	51	120	52	117	51	120	51	120		
625DN	125UP	83/17	3000	30	100	30	101	30	100	30	101	30	101		
	250UP	71/29	3500	34	105	33	106	34	105	33	106	33	106		
	375UP	60/40	4000	37	108	37	110	37	108	37	110	37	110		
	500UP	56/44	4500	40	112	40	114	40	112	40	114	40	114		
	625UP	50/50	5000	44	114	44	116	44	114	44	116	44	116		
	800UP	44/56	5700	51	114	50	116	51	114	50	116	50	116		
	1000UP	35/65	6500	57	115	56	117	57	115	56	117	56	117		

*Based on 3500K, 4' lengths. Lumen Multipliers: Preferred Light = 0.65, 90 CRI = 0.87. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

PERFORMANCE CHART (POINT SOURCE)

Per Point Source					PS06		PS12		PSE			
					4' Luminaire				4-8' Luminaires		> 8' Luminaires	
Distribution		Beamspread	Point Source Lumens	Delivered Lumens	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW	Tested System Watts	LPW
	Narrow Flood (NFL)	21°	250L	258	21	87	10	77	-	-	-	-
			350L	360	30	84	14	80	10	74	12	61
			450L	457	-	-	17	81	12	76	14	66
	Flood 1 (FL1)	28°	250L	254	21	86	10	76	-	-	-	-
			350L	354	30	83	14	78	10	73	12	60
			450L	450	-	-	17	79	12	75	14	66
	Flood 2 (FL2)	42°	250L	249	21	84	10	74	-	-	-	-
			350L	346	30	81	14	77	10	71	12	59
			450L	441	-	-	17	78	12	73	14	65
	Wide Flood (WFL)	53°	250L	242	21	82	10	72	-	-	-	-
			350L	337	30	79	14	75	10	69	12	57
			450L	429	-	-	17	75	12	71	14	63

Based on 3500K. Lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

7 point sources

3 point sources

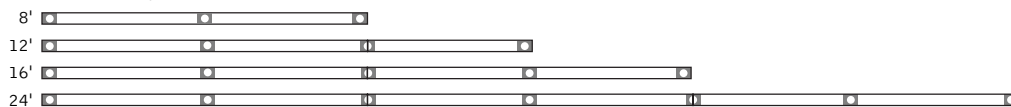
2 point sources

Seem® 1 Point Source

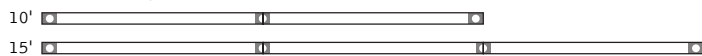
POINT SOURCE SPACING GUIDE

ON-CENTER SPACING EXAMPLES

PS4 - Nominal 4ft spacing across run



PS5 - Nominal 5ft spacing across run



PS6 - Nominal 6ft spacing across run



PS8 - Nominal 8ft spacing across run



MIXED SPACING EXAMPLES

PSM - Mixed spacing across run. Point sources located at start and end of run as well as housing joints.



Luminaire Run Length (ft)	Run Configuration	Point Source Spacing Code	Total # Point Sources
8	8'	PS4	3
9	-	-	-
10	5' + 5'	PS5	3
11	-	-	-
12	8' + 4'	PS4*	4
12	6' + 6'	PS6	3
13	4' + 5' + 4'	PSM*	4
14	7' + 7'	PS7	3
15	5' + 5' + 5'	PS5	4
16	8' + 8'	PS4	5
16	8' + 8'	PS8	3
17	6' + 5' + 6'	PSM	4
18	6' + 6' + 6'	PS6	4
19	6' + 7' + 6'	PSM	4
20	8' + 8' + 4'	PS4*	6
20	5' + 5' + 5' + 5'	PS5	5
20	7' + 6' + 7'	PSM	4
21	7' + 7' + 7'	PS7	4
22	7' + 8' + 7'	PSM	4
23	8' + 7' + 8'	PSM	4
24	8' + 8' + 8'	PS4	7
24	8' + 8' + 8'	PS8	4
24	6' + 6' + 6' + 6'	PS6	5
25	5' + 5' + 5' + 5' + 5'	PS5	6
26	7' + 6' + 6' + 7'	PSM	5
27	6' + 5' + 5' + 5' + 6'	PSM	6
28	8' + 8' + 8' + 4'	PS4*	8
28	7' + 7' + 7' + 7'	PS7	5
29	6' + 6' + 5' + 6' + 6'	PSM	6

Luminaire Run Length (ft)	Run Configuration	Point Source Spacing Code	Total # Point Sources
30	5' + 5' + 5' + 5' + 5' + 5'	PS5	7
30	6' + 6' + 6' + 6' + 6'	PS6	6
31	6' + 6' + 7' + 6' + 6'	PSM	6
32	8' + 8' + 8' + 8'	PS4	9
32	8' + 8' + 8' + 8'	PS8	5
33	6' + 7' + 7' + 7' + 6'	PSM	6
34	7' + 7' + 6' + 7' + 7'	PSM	6
35	5' + 5' + 5' + 5' + 5' + 5' + 5'	PS5	8
35	7' + 7' + 7' + 7' + 7'	PS7	6
36	8' + 8' + 8' + 8' + 4'	PS4*	10
36	6' + 6' + 6' + 6' + 6' + 6'	PS6	7
37	8' + 7' + 7' + 7' + 8'	PSM	6
38	8' + 8' + 6' + 8' + 8'	PSM	6
39	8' + 8' + 7' + 8' + 8'	PSM	6
40	8' + 8' + 8' + 8' + 8'	PS4	11
40	8' + 8' + 8' + 8' + 8'	PS8	6
40	5' + 5' + 5' + 5' + 5' + 5' + 5' + 5'	PS5	9
41	6' + 6' + 6' + 5' + 6' + 6' + 6'	PSM	8
42	6' + 6' + 6' + 6' + 6' + 6' + 6'	PS6	8
42	7' + 7' + 7' + 7' + 7' + 7'	PS7	7
43	6' + 6' + 6' + 7' + 6' + 6' + 6'	PSM	8
44	8' + 8' + 8' + 8' + 8' + 4'	PS4*	12
45	5' + 5' + 5' + 5' + 5' + 5' + 5' + 5' + 5'	PS5	10
46	7' + 8' + 8' + 8' + 8' + 7'	PSM	7
47	6' + 5' + 5' + 5' + 5' + 5' + 5' + 5' + 6'	PSM	10
48	8' + 8' + 8' + 8' + 8' + 8'	PS4	13
48	8' + 8' + 8' + 8' + 8' + 8'	PS8	7
48	6' + 6' + 6' + 6' + 6' + 6' + 6' + 6'	PS6	9
>48	Consult Factory	-	-

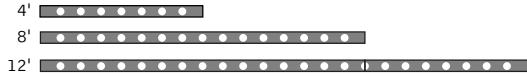
*Not available with 125DN.

Seem® 1 Point Source

POINT SOURCE ONLY SPACING GUIDE

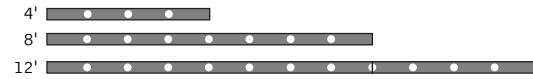
ON-CENTER SPACING EXAMPLES

PS06 - 6" Nominal on-center spacing



Luminaire Run Length (ft)	Run Configuration	Point Source Spacing Code	Total # Point Sources
4	4	PS06	7
5	5	PS06	9
6	6	PS06	11
7	7	PS06	13
8	8	PS06	15
9	5 + 4	PS06	17
10	6 + 4	PS06	19
11	7 + 4	PS06	21
12	8 + 4	PS06	23
13	8 + 5	PS06	25
14	8 + 6	PS06	27
15	8 + 7	PS06	29
16	8 + 8	PS06	31
17	8 + 5 + 4	PS06	33
18	8 + 6 + 4	PS06	35
19	8 + 7 + 4	PS06	37
20	8 + 8 + 4	PS06	39
21	8 + 8 + 5	PS06	41
22	8 + 8 + 6	PS06	43
23	8 + 8 + 7	PS06	45
24	8 + 8 + 8	PS06	47
25	8 + 8 + 5 + 4	PS06	49
26	8 + 8 + 6 + 4	PS06	51
27	8 + 8 + 7 + 4	PS06	53
28	8 + 8 + 8 + 4	PS06	55
29	8 + 8 + 8 + 5	PS06	57
30	8 + 8 + 8 + 6	PS06	59
31	8 + 8 + 8 + 7	PS06	61
32	8 + 8 + 8 + 8	PS06	63
33	8 + 8 + 8 + 5 + 4	PS06	65
34	8 + 8 + 8 + 6 + 4	PS06	67
35	8 + 8 + 8 + 7 + 4	PS06	69
36	8 + 8 + 8 + 8 + 4	PS06	71
37	8 + 8 + 8 + 8 + 5	PS06	73
38	8 + 8 + 8 + 8 + 6	PS06	75
39	8 + 8 + 8 + 8 + 7	PS06	77
40	8 + 8 + 8 + 8 + 8	PS06	79
41	8 + 8 + 8 + 8 + 5 + 4	PS06	81
42	8 + 8 + 8 + 8 + 6 + 4	PS06	83
43	8 + 8 + 8 + 8 + 7 + 4	PS06	85
44	8 + 8 + 8 + 8 + 8 + 4	PS06	87
45	8 + 8 + 8 + 8 + 8 + 5	PS06	89
46	8 + 8 + 8 + 8 + 8 + 6	PS06	91
47	8 + 8 + 8 + 8 + 8 + 7	PS06	93
48	8 + 8 + 8 + 8 + 8 + 8	PS06	95
>48	Consult Factory	-	-

PS12 - 12" Nominal on-center spacing



Luminaire Run Length (ft)	Run Configuration	Point Source Spacing Code	Total # Point Sources
4	4	PS12	3
5	5	PS12	4
6	6	PS12	5
7	7	PS12	6
8	8	PS12	7
9	5 + 4	PS12	8
10	6 + 4	PS12	9
11	7 + 4	PS12	10
12	8 + 4	PS12	11
13	8 + 5	PS12	12
14	8 + 6	PS12	13
15	8 + 7	PS12	14
16	8 + 8	PS12	15
17	8 + 5 + 4	PS12	16
18	8 + 6 + 4	PS12	17
19	8 + 7 + 4	PS12	18
20	8 + 8 + 4	PS12	19
21	8 + 8 + 5	PS12	20
22	8 + 8 + 6	PS12	21
23	8 + 8 + 7	PS12	22
24	8 + 8 + 8	PS12	23
25	8 + 8 + 5 + 4	PS12	24
26	8 + 8 + 6 + 4	PS12	25
27	8 + 8 + 7 + 4	PS12	26
28	8 + 8 + 8 + 4	PS12	27
29	8 + 8 + 8 + 5	PS12	28
30	8 + 8 + 8 + 6	PS12	29
31	8 + 8 + 8 + 7	PS12	30
32	8 + 8 + 8 + 8	PS12	31
33	8 + 8 + 8 + 5 + 4	PS12	32
34	8 + 8 + 8 + 6 + 4	PS12	33
35	8 + 8 + 8 + 7 + 4	PS12	34
36	8 + 8 + 8 + 8 + 4	PS12	35
37	8 + 8 + 8 + 8 + 5	PS12	36
38	8 + 8 + 8 + 8 + 6	PS12	37
39	8 + 8 + 8 + 8 + 7	PS12	38
40	8 + 8 + 8 + 8 + 8	PS12	39
41	8 + 8 + 8 + 8 + 5 + 4	PS12	40
42	8 + 8 + 8 + 8 + 6 + 4	PS12	41
43	8 + 8 + 8 + 8 + 7 + 4	PS12	42
44	8 + 8 + 8 + 8 + 8 + 4	PS12	43
45	8 + 8 + 8 + 8 + 8 + 5	PS12	44
46	8 + 8 + 8 + 8 + 8 + 6	PS12	45
47	8 + 8 + 8 + 8 + 8 + 7	PS12	46
48	8 + 8 + 8 + 8 + 8 + 8	PS12	47
>48	Consult Factory	-	-