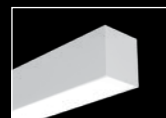


# Seem<sup>®</sup> 4

FLUORESCENT

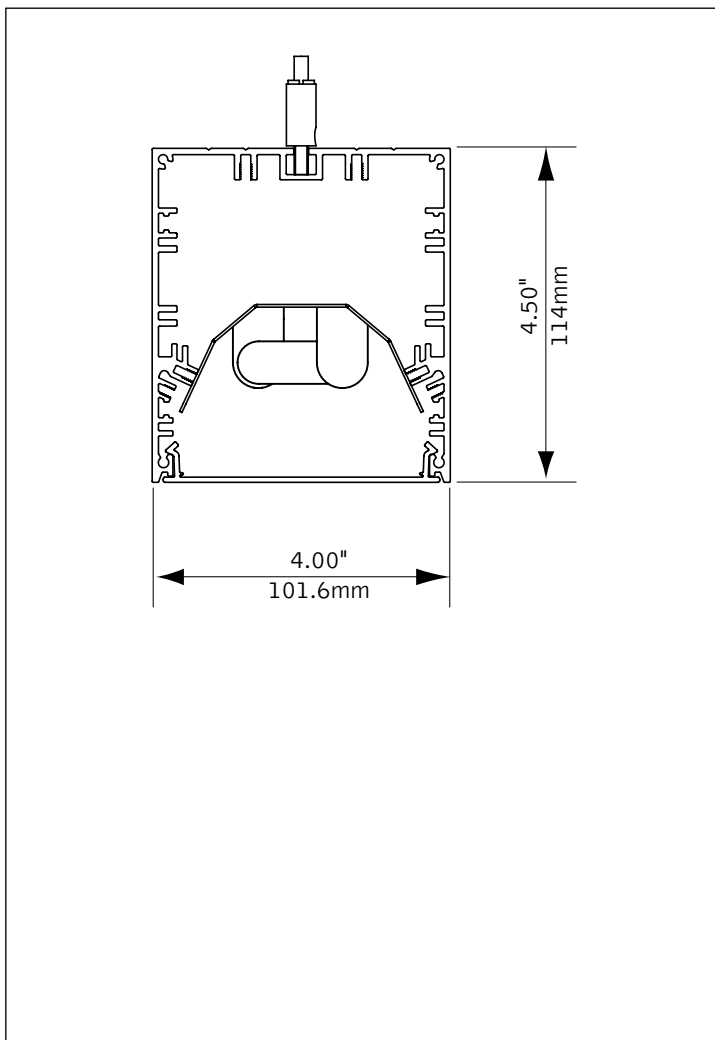


recessed  
companion



wall mount  
companion

## DIMENSIONAL DATA



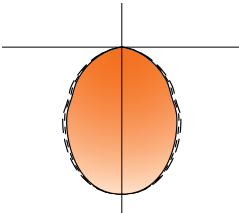
## FEATURES

Narrow 4" linear fluorescent allows for both individual or continuous runs.

Frosted acrylic flush lens provides even illumination, high performance lens available for increased efficiency.

Available in T5, T8 or T5HO, Seem 4 provides continuous illumination by combining 3' and 4' staggered lamps.

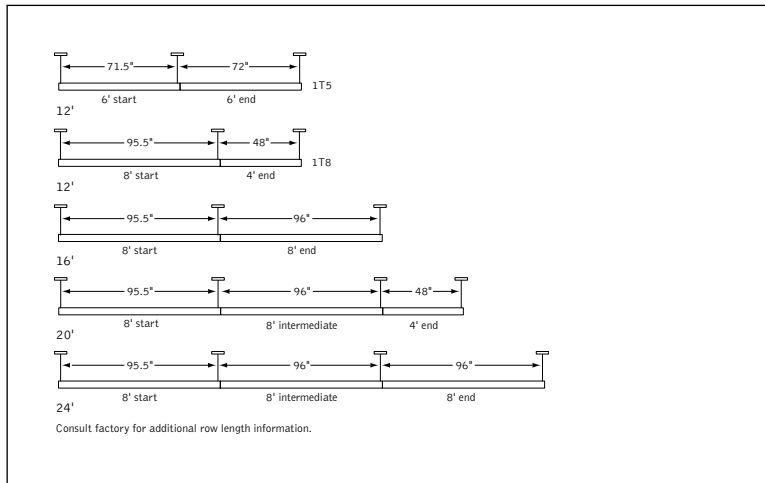
## PERFORMANCE

PRODUCT OVERVIEW	
Lumen Output:	1520-3600lm
Wattage:	33-55W
Lamping:	T5, T5HO, T8
 1-Lamp T5 High Performance Lens <b>77% Efficient</b> <b>999 cd @ 0°</b>	1-Lamp T5 Flush Satin Lens <b>56% Efficient</b> <b>595 cd @ 0°</b>
<small>Visit <a href="http://focalpointlights.com">focalpointlights.com</a> for complete photometric data.</small>	

fixture:

project:

## SUSPENSION INFORMATION



## SPECIFICATIONS

### Construction

One piece, .07" thick housing of 6063-T5 extruded aluminum. Cast aluminum end caps. Lengths 6' and longer configured with staggered lamps: T8: 4.47" overlap, T5/T5HO: 4.35" overlap, 2' unit weight: 18 lbs., 3' unit weight: 24 lbs., 4' unit weight: 30 lbs., 5' unit weight: 36 lbs., 6' unit weight: 43 lbs., 8' unit weight: 55 lbs.

### Optic

Reflectors fabricated of 22 Ga. Steel finished in High Reflectance White powder coat. Flush satin lens: extruded acrylic lens .07" thick with opal satin finish. High performance flush lens: extruded acrylic lens .07" thick with increased light transmission. Lenses up to 8' continuous.

### Electrical

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Electronic fluorescent ballasts are thermally protected and have a Class "P" rating. Optional dimming ballasts available.

### Labels

UL and cUL listed.

### Finish

Polyester powder coat applied over a 5-stage pre-treatment.

## ORDERING

<b>Luminaire Series</b>		<b>FSM4S</b>
Seem 4	FSM4S	_____
<b>Shielding</b>		_____
Flush Satin Lens	FL	_____
High Performance Flush Lens	FLXP	_____
<small>(Lamp image may be visible)</small>		
<b>Lamping</b>		_____
One Lamp T8	1T8	_____
One Lamp T5	1T5	_____
One Lamp T5HO	1T5HO	_____
<b>Circuit</b>		<b>1C</b>
Single Circuit	1C	_____
<b>Voltage</b>		_____
120 Volt	120	_____
277 Volt	277	_____
347 Volt	347	_____
<small>(Consult factory for dimming options)</small>		
UNV Volt	UNV	_____
<small>(Cannot be specified with 1T5HO dimming or EM options)</small>		
<b>Ballast</b>		_____
Electronic Program Start <10% THD	S	_____
0-10V	D7	_____
Lutron 1% 3-wire	DH	_____
Lutron 1% H-Series	DK	_____
<b>Mounting</b>		_____
24" Cable Suspension	C24	_____
48" Cable Suspension	C48	_____
96" Cable Suspension	C96	_____
<small>(Add "P" for Chicago plenum. Eg: CP12) (Specify one of the following in place of "C")</small>		
Surface Mount	SM	_____
<b>Factory Options</b>		_____
Emergency Circuit*	EC	_____
Emergency Battery Pack*	EM	_____
HLR/GLR Fuse	FU	_____
Include 3000K Lamp*	L830	_____
Include 3500K Lamp*	L835	_____
Include 4100K Lamp*	L841	_____
<b>Finish</b>		_____
Titanium Silver	TS	_____
Matte White Housing	WH	_____
<b>Luminaire Length</b>		_____
	2'	2'
	3'	3'
	4'	4'
	5'	5'
	6'	6'
	7'	7'
Specify row lengths 8' and longer in 4' increments	X'	_____
<small>(Lengths 6' and longer configured with staggered lamps)</small>		

# Seem® 4

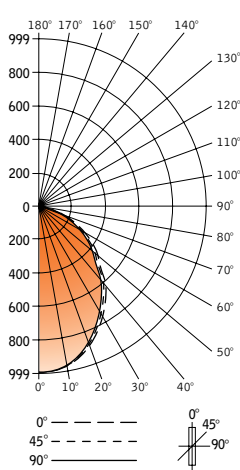
FLUORESCENT - HIGH PERFORMANCE FLUSH LENS

## FSM4-FLXP-1T5-1C-120-S-G1-WH-4'

Filename: FSM4FLXP1T5.IES  
Test #: 15712.0

Lumens: 2220lm  
Efficiency: 77%

### CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	999	999	999	999	999
5°	997	996	994	994	994
15°	942	941	937	93	931
25°	831	827	817	806	802
35°	692	685	670	654	648
45°	510	503	484	466	458
55°	378	373	355	338	333
65°	236	23	219	210	205
75°	118	116	111	105	103
85°	31	29	28	28	28
90°	0	0	0	0	0
95°	0	0	0	0	0
105°	0	0	0	0	0
115°	0	0	0	0	0
125°	0	0	0	0	0
135°	0	0	0	0	0
145°	0	0	0	0	0
155°	0	0	0	0	0
165°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	738	25.5	33.3
0-40°	1159	40.0	52.2
0-60°	1853	63.9	83.5
0-90°	2220	76.6	100
<b>Total Luminaire 0-180°</b>	<b>2220</b>	<b>76.6</b>	<b>100</b>

### LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	6091	5781	5470
55°	5566	5227	4903
65°	4716	7376	4097
75°	3850	3622	3361
85°	3004	2713	2713

### CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70			20		50		30		10		00
	70	50	30	10	70	50	10	50	10	50	10	50	10	50	10	00
RCR 0	91	91	91	91	89	89	89	85	85	81	81	78	78	78	78	77
1	85	81	78	76	82	80	75	76	72	73	70	71	68	67	67	67
2	78	72	68	64	76	71	63	68	62	66	60	64	59	58	58	58
3	72	65	59	55	70	64	54	61	53	59	53	58	52	50	50	50
4	66	58	52	47	65	57	47	55	46	54	46	52	45	44	44	44
5	61	52	46	41	59	51	41	49	40	48	40	47	39	38	38	38
6	56	47	40	36	55	46	36	45	35	44	35	42	35	33	33	33
7	52	42	35	32	51	42	32	41	31	40	31	39	31	29	29	29
8	48	38	32	8	47	38	28	37	27	36	27	35	27	26	26	26
9	45	35	28	24	43	34	24	33	24	32	24	32	24	22	22	22
10	41	31	26	22	40	31	22	30	21	30	21	29	21	20	20	20

Numbers indicate percentage values of reflectivity.

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# Seem® 4

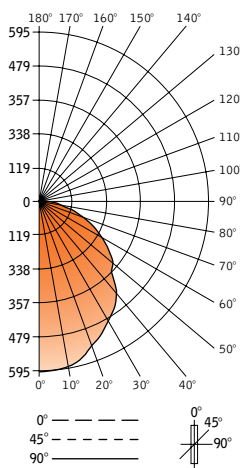
FLUORESCENT - FLUSH LENS

## FSM4-FL-1T5-1C-120-S-G1-WH-4'

Filename: FSM4FL1T5.IES  
Test #: 15711.0

Lumens: 1617lm  
Efficiency: 56%

### CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle				Zonal Lumens
	0°	22.5°	45°	67.5°	
0°	595	595	595	595	595
5°	591	591	591	591	591
15°	568	568	568	568	568
25°	515	515	515	515	515
35°	455	455	455	455	455
45°	353	355	355	355	355
55°	288	288	288	290	290
65°	198	196	198	198	199
75°	108	109	109	109	109
85°	28	28	28	28	29
90°	0	0	0	0	0
95°	0	0	0	0	0
105°	0	0	0	0	0
115°	0	0	0	0	0
125°	0	0	0	0	0
135°	0	0	0	0	0
145°	0	0	0	0	0
155°	0	0	0	0	0
165°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	456	15.7	28.2
0-40°	742	25.6	45.9
0-60°	1275	44.0	78.9
0-90°	1617	55.8	100
<b>Total Luminaire 0-180°</b>	<b>1617</b>	<b>55.8</b>	<b>100</b>

### LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	4216	4240	4240
55°	4241	4241	4270
65°	3957	3957	3977
75°	3524	3557	3557
85°	2713	2713	2810

### CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70			20		50		30		10		00
	70	50	30	10	70	50	10	50	10	50	10	50	10	50	10	00
RCR 0	66	66	66	66	65	65	65	62	62	59	59	57	57	57	57	56
1	61	59	56	54	60	57	53	55	52	53	50	51	49	48	48	48
2	56	52	48	45	54	51	44	49	43	47	42	45	41	40	40	40
3	51	46	41	38	50	45	38	43	37	42	36	40	36	35	35	35
4	47	41	36	32	46	40	32	39	32	37	31	36	31	30	30	30
5	43	36	31	27	42	35	27	34	27	33	27	32	26	25	25	25
6	40	32	27	24	39	32	24	31	23	30	23	29	23	22	22	22
7	36	29	24	21	36	29	21	28	21	27	20	26	20	19	19	19
8	34	26	21	18	33	26	18	25	18	24	18	24	18	17	17	17
9	31	23	19	16	30	23	16	22	15	22	15	21	15	14	14	14
10	29	21	17	14	28	21	14	20	14	20	14	19	14	13	13	13

Numbers indicate percentage values of reflectivity.

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# Seem® 4

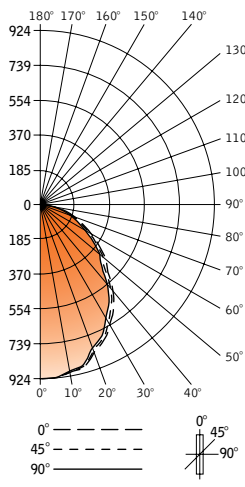
FLUORESCENT - HIGH PERFORMANCE FLUSH LENS

## FSM4-FLXP-1T8-1C-120-S-TF-WH-4'

Filename: FSM4FLXP1T8.IES  
Test #: 15815.0

Lumens: 2114lm  
Efficiency: 72%

### CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle					Zonal Lumens
	0°	22.5°	45°	67.5°	90°	
0°	924	924	924	924	924	924
5°	922	920	920	920	920	88
15°	890	886	883	881	877	250
25°	791	787	778	767	762	360
35°	667	659	645	630	623	405
45°	490	481	464	448	442	360
55°	360	355	342	328	320	306
65°	222	218	207	200	195	207
75°	113	109	103	100	100	111
85°	29	27	25	23	23	28
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	698	23.7	33.0
0-40°	1103	37.4	52.2
0-60°	1769	60.0	83.7
0-90°	2114	71.7	100
<b>Total Luminaire 0-180°</b>	<b>2114</b>	<b>71.7</b>	<b>100</b>

### LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	5921	5607	5341
55°	5363	5095	4767
65°	4489	4185	3943
75°	3731	3401	3302
85°	2843	2451	2255

### CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20 50				30				10				00			
	70	50	30	10	70	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10			
RCR 0	85	85	85	85	83	83	83	80	80	76	76	73	73	73	73	72	72	72	72	72	72			
1	79	76	74	71	77	75	70	72	68	69	66	66	64	64	62	64	62	64	62	64	62			
2	73	68	64	60	71	66	59	64	58	62	57	60	55	54	60	55	54	60	55	54	62			
3	67	61	56	51	66	60	51	58	50	56	49	54	48	47	54	48	47	54	48	47	49			
4	62	54	49	44	61	53	44	52	44	50	43	49	42	41	49	42	41	49	42	41	41			
5	57	49	43	38	56	48	38	46	38	45	37	44	37	35	44	37	35	44	37	35	35			
6	53	44	38	34	51	43	33	42	33	41	33	40	33	31	40	33	31	40	33	31	31			
7	49	40	34	30	48	39	29	38	29	37	29	36	29	27	36	29	27	36	29	27	27			
8	45	36	30	26	44	35	26	34	26	33	26	33	25	24	33	25	24	33	25	24	24			
9	42	32	27	23	41	32	23	31	22	30	22	29	22	21	29	22	21	29	22	21	21			
10	39	29	24	20	38	29	20	28	20	28	20	27	20	19	27	20	19	27	20	19	19			

Numbers indicate percentage values of reflectivity.

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

# Seem® 4

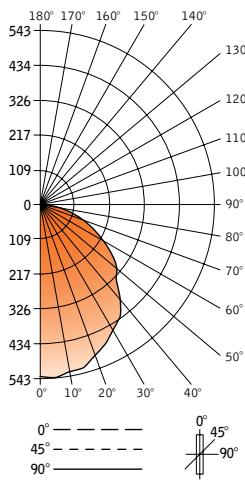
FLUORESCENT - FLUSH LENS

## FSM4-FL-1T8-1C-120-S-TF-WH-4'

Filename: FSM4FL1T8.IES  
Test #: 15814.0

Lumens: 1520lm  
Efficiency: 52%

### CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle					Zonal Lumens
	0°	22.5°	45°	67.5°	90°	
0°	539	539	539	539	539	539
5°	543	543	543	543	543	52
15°	528	528	528	528	528	150
25°	484	484	484	484	484	224
35°	433	433	433	433	433	272
45°	333	333	333	333	337	258
55°	271	271	271	271	271	243
65°	182	184	184	184	185	183
75°	102	100	102	102	102	107
85°	29	29	29	29	29	32
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	426	14.4	28.0
0-40°	698	23.6	45.9
0-60°	1199	40.6	78.9
0-90°	1520	51.5	100
<b>Total Luminaire 0-180°</b>	<b>1520</b>	<b>51.5</b>	<b>100</b>

### LUMINANCE DATA (CD/M²)

Vertical Angle	0°	45°	90°
45°	4024	4024	4073
55°	4037	4037	4037
65°	3680	3720	3741
75°	3368	3368	3368
85°	2843	2843	2843

### CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70				20 50				30				10				00			
	70	50	30	10	70	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10			
RCR 0	61	61	61	61	60	60	60	57	57	55	55	53	53	53	53	52	52	52	52	52	52			
1	56	54	52	50	55	53	49	51	48	49	46	47	45	44	47	45	44	47	45	44	44			
2	52	48	44	41	50	47	41	45	40	43	39	42	38	37	42	38	37	42	38	37	37			
3	47	42	38	35	46	41	35	40	37	39	34	37	33	32	37	33	32	37	33	32	32			
4	43	38	33	30	42	37	30	36	29	34	29	33	28	27	33	28	27	33	28	27	27			
5	40	33	29	25	39	33	25	32	25	31	25	30	24	23	30	24	23	30	24	23	23			
6	37	30	25	22	36	29	22	28	22	27	21	27	21	20	27	21	20	27	21	20	20			
7	34	27	22	19	33	26	19	26	19	25	19	24	19	18	24	19	18	24	19	18	18			
8	31	24	20	19	30	24	17	23	16	22	16	22	16	15	22	16	15	22	16	15	15			
9	29	22	17	14	28	21	14	21	14	20	14	20	14	13	20	14	13	20	14	13	13			
10	27	20	15	13	26	19	13	19	13	18	13	18	12	12	18	12	12	18	12	12	12			

Numbers indicate percentage values of reflectivity.

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.

note: Photometric testing performed in an independent lab with standard lamps and ballasts. Lamp and ballast type and configuration will affect photometric performance.

# Seem® 4

FLUORESCENT SUSPENDED, SURFACE & WALL MOUNT RUN GUIDE

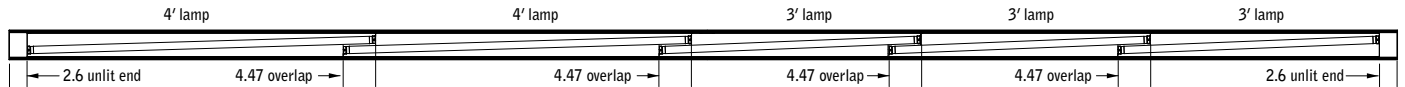


FOCAL POINT®

## EXAMPLE 16' RUN



1-T5/T5HO



1-T8

Run length (ft)	Housing configuration	1-T5/T5HO (4.35" overlap)			1-T8 (4.47" overlap)		
		Lamp quantity		Unlit ends (in)	Lamp quantity		Unlit ends (in)
		3'	4'		3'	4'	
8	8	3		1		2.3	
12	66	2	2	0.8			
	84				3	1	0.8
16	88	2	3	1.5	3	2	3.1
20	884	5	2	1.3	6	1	1.5
24	888	1	6	1.4	2	5	1.6
28	8884	11		1.5	9	1	2.3
32	8888	7	4	1.9	5	5	2.3
36	88884	10	3	1.9	1	9	2.4
40	88888	13	2	1.9	4	8	0.9
44	888884	9	6	2.4		12	0.9
48	888888	19		2	7	8	1.6

\* special lamp stagger to decrease end darkness.

### Notes:

- Lamp overlap is consistent throughout run.
- Unlit ends vary to provide even light throughout run.
- Standard configurations listed, consult factory for additional options.

Notes: Lamp overlap is consistent throughout run. Unlit ends vary to provide even light throughout run. Standard configurations listed, consult factory for additional options.