

# 4" EXTRUDED RECTANGULAR – SURFACE

# LX4S

**SUBMITTAL:**

**T8**

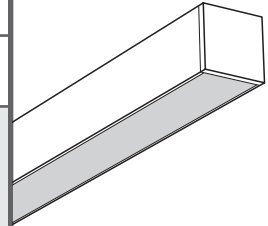
**JOB:**

**TYPE:**

**VOLTAGE:**

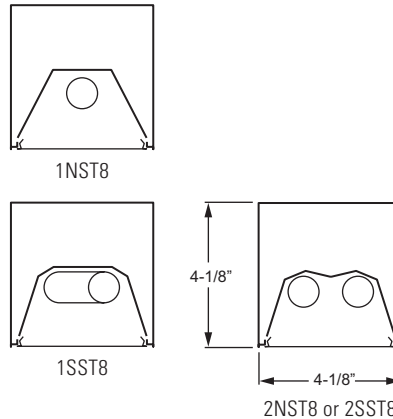
**EXAMPLE** → **LX4S - 4 - 1SST8 - A - OPTIONS - EB - UNV**

SERIES      NOMINAL LENGTH      LAMP TYPE/CROSS-SECTION      SHIELDING      OPTIONS      BALLAST TYPE      VOLTAGE



## FEATURES

- ▶ Sleek, linear design incorporates clean lines, slim styling, and a continuous line of light.
- ▶ Available in row-mount up to 50' or as seamless stand-alone fixtures up to 12' in length.
- ▶ Attractive source of direct lighting for use in offices, hallways, conference rooms or common areas.
- ▶ Linear extrusion contains snap-in light modules for ease of installation and maintenance.
- ▶ Fixtures are designed to even increments to simplify lighting layouts.
- ▶ Frosted acrylic lens or parabolic louvers shield lamps from view.
- ▶ Lamps configured to minimize dark spots.
- ▶ This fixture is proudly made in the USA.



## SPECIFICATIONS

**Housing** – Extruded aluminum with die-cast end caps.

**Shielding** – Extruded frosted acrylic lens or parabolic louvers with various finishes.

**Finish** – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

**Electrical** – Electronic ballast standard, instant start T8, rated Class P. Light modules for row mounting equipped with quick-connect wiring harness standard.

**Mounting** – Surface.

**Labels** – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.

## ORDERING INFORMATION

### SERIES

**LX4S**      4" Rectangular Extruded – Surface

### NOMINAL LENGTH

**Stand-alone** – 2'-12' lengths specified in 1' increments; fixture ships assembled. Example: **2** = 2'.

**Row-mount** – Row mounted fixtures ship unassembled. Specify length in 1' increments from 13'-50'. Example: **36** = 36'. Contact apps@hew.com for layout assistance.

### LAMP TYPE/CROSS-SECTION

For lamp configuration diagrams see page 2B-2F.

**1NST8**      1-lamp, non-staggered T8  
**1SST8<sup>1</sup>**      1-lamp, staggered T8<sup>1</sup>  
**2NST8**      2-lamp, non-staggered T8  
**2SST8<sup>1</sup>**      2-lamp, staggered T8<sup>1</sup>

### SHIELDING

**A**      Frosted acrylic  
**MAPL**      Specular aluminum parabolic louver  
**SAPL**      Semi-specular aluminum parabolic louver  
**WAPL**      White aluminum parabolic louver

### OPTIONS

For generic **EM ballast** options (must specify voltage), see Information section. **Ballast size restrictions apply.** Consult factory.

Factory-installed occupancy sensor (120V or 277V only) adds 6" to overall nominal length of fixture run:

**OCCWS FS-355-L6<sup>2</sup>**      End-mount sensor<sup>2</sup>

### BALLAST TYPE

For **dimming** options see Information section. **Ballast size restrictions apply.** Consult factory.  
**EB**      Electronic ballast

### VOLTAGE

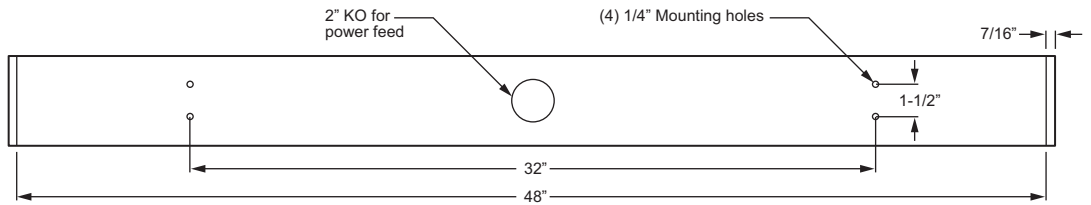
**120**      120V  
**277**      277V  
**UNV**      120-277V  
**347**      347V

<sup>1</sup> Staggered lamps not available in 2'-12' units.  
<sup>2</sup> Program start ballast recommended to avoid shortened lamp life. OCCWS FS-355-L6 option requires 120V or 277V.

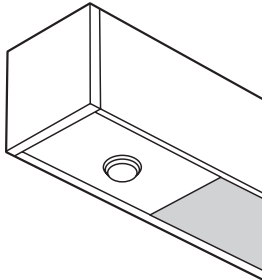


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### BACK VIEW (Example shown below is of 4' extrusion)



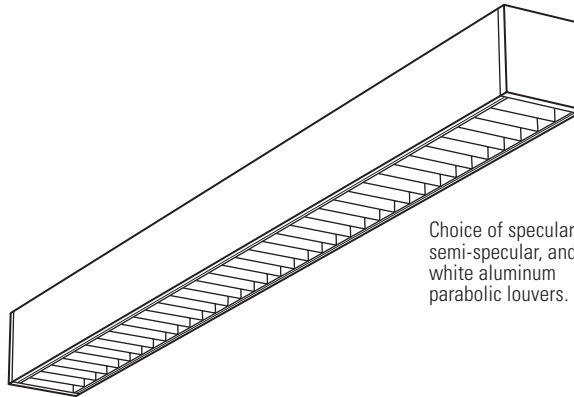
### Occupancy Sensor Detail



Optional occupancy sensor is installed on the power end of the fixture. When specified, please note that the occupancy sensor adds 6" to the overall length of the fixture run.

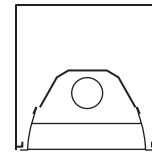
### FIXTURE DETAILS

#### OPTIONAL LOUVER SHIELDING DETAIL

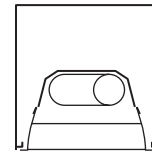


Choice of specular, semi-specular, and white aluminum parabolic louvers.

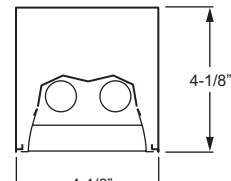
#### LOUVER CROSS-SECTIONS



1NST8



1SST8



2NST8 or 2SST8

### LAMP CONFIGURATIONS - 1T8 and 2T8 NON-STAGGERED

2'	2
3'	3
4'	4
5'	2 3
6'	3 3
7'	4 3
8'	4 4
9'	3 3 3
10'	4 2 4
11'	4 3 4
12'	4 4 4
13'	4 2 3 4
14'	4 3 3 4
15'	4 3 4 4

#### LEGEND

2	2' lamp
3	3' lamp
4	4' lamp

For additional configurations, see next page.

LAMP CONFIGURATIONS - 1T8 and 2T8 NON-STAGGERED (Continued)

	LEGEND																
16'	4	4	4	4								2	2' lamp				
17'	4	3	3	3	4								3	3' lamp			
18'	4	2	4	4	4								4	4' lamp			
19'	4	3	4	4	4												
20'	4	4	4	4	4												
21'	4	2	3	4	4	4											
22'	4	3	3	4	4	4											
23'	4	3	4	4	4	4											
24'	4	4	4	4	4	4											
25'	4	3	3	3	4	4	4										
26'	4	2	4	4	4	4	4										
27'	4	3	4	4	4	4	4										
28'	4	4	4	4	4	4	4										
29'	4	2	3	4	4	4	4	4									
30'	4	3	3	4	4	4	4	4									
31'	4	3	4	4	4	4	4	4									
32'	4	4	4	4	4	4	4	4									
33'	4	3	3	3	4	4	4	4	4								
34'	4	2	4	4	4	4	4	4	4								
35'	4	3	4	4	4	4	4	4	4								
36'	4	4	4	4	4	4	4	4	4								
37'	4	2	3	4	4	4	4	4	4	4							
38'	4	3	3	4	4	4	4	4	4	4							
39'	4	3	4	4	4	4	4	4	4	4							
40'	4	4	4	4	4	4	4	4	4	4							
41'	4	3	3	3	4	4	4	4	4	4	4						
42'	4	2	4	4	4	4	4	4	4	4	4						
43'	4	3	4	4	4	4	4	4	4	4	4						
44'	4	4	4	4	4	4	4	4	4	4	4						
45'	4	2	3	4	4	4	4	4	4	4	4	4					
46'	4	3	3	4	4	4	4	4	4	4	4	4					
47'	4	3	4	4	4	4	4	4	4	4	4	4					
48'	4	4	4	4	4	4	4	4	4	4	4	4					
49'	4	3	3	3	4	4	4	4	4	4	4	4	4				
50'	4	2	4	4	4	4	4	4	4	4	4	4	4				

For additional configurations, see next page.



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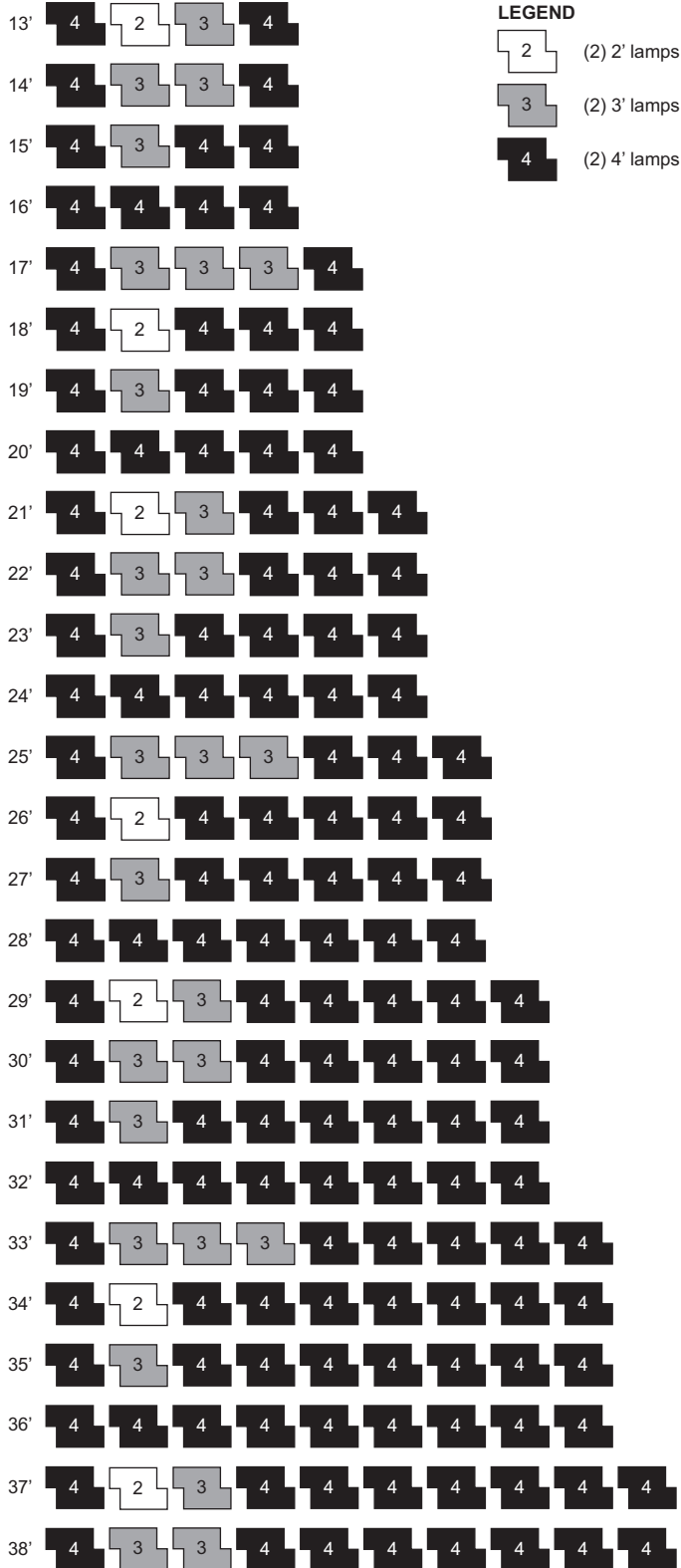
### LAMP CONFIGURATIONS - 1T8 STAGGERED

13'	4	3	4	4	<b>LEGEND</b> <span style="border: 1px solid black; padding: 2px;">2</span> 2' lamp <span style="border: 1px solid black; padding: 2px;">3</span> 3' lamp <span style="border: 1px solid black; padding: 2px;">4</span> 4' lamp										
14'	4	4	4	4											
15'	4	3	3	3	4										
16'	4	3	3	4	4										
17'	4	3	4	4	4										
18'	4	4	4	4	4										
19'	4	3	3	4	4	4									
20'	4	3	4	4	4	4									
21'	4	4	4	4	4	4									
22'	4	3	3	3	4	4	4								
23'	4	3	3	4	4	4	4								
24'	4	3	4	4	4	4	4								
25'	4	4	4	4	4	4	4								
26'	4	3	3	4	4	4	4	4							
27'	4	3	4	4	4	4	4	4							
28'	4	4	4	4	4	4	4	4							
29'	4	3	3	3	4	4	4	4	4						
30'	4	3	3	4	4	4	4	4	4						
31'	4	3	4	4	4	4	4	4	4						
32'	4	4	4	4	4	4	4	4	4						
33'	4	3	3	4	4	4	4	4	4	4					
34'	4	3	4	4	4	4	4	4	4	4					
35'	4	4	4	4	4	4	4	4	4	4					
36'	4	3	3	3	4	4	4	4	4	4	4				
37'	4	3	3	4	4	4	4	4	4	4	4				
38'	4	3	4	4	4	4	4	4	4	4	4				
39'	4	4	4	4	4	4	4	4	4	4	4				
40'	4	3	3	4	4	4	4	4	4	4	4	4			
41'	4	3	3	3	3	3	4	4	4	4	4	4	4		
42'	4	3	3	3	3	4	4	4	4	4	4	4	4		
43'	4	3	3	3	4	4	4	4	4	4	4	4	4		
44'	4	3	3	4	4	4	4	4	4	4	4	4	4		
45'	4	3	4	4	4	4	4	4	4	4	4	4	4		
46'	4	4	4	4	4	4	4	4	4	4	4	4	4		
47'	4	3	3	4	4	4	4	4	4	4	4	4	4	4	
48'	4	3	3	3	3	3	4	4	4	4	4	4	4	4	4
49'	4	3	3	3	3	4	4	4	4	4	4	4	4	4	4
50'	4	3	3	3	4	4	4	4	4	4	4	4	4	4	4

For additional configurations,  
see next page.

LAMP CONFIGURATIONS - 2T8 STAGGERED

ACTUAL ROW LENGTH IS 6" MORE THAN NOMINAL.



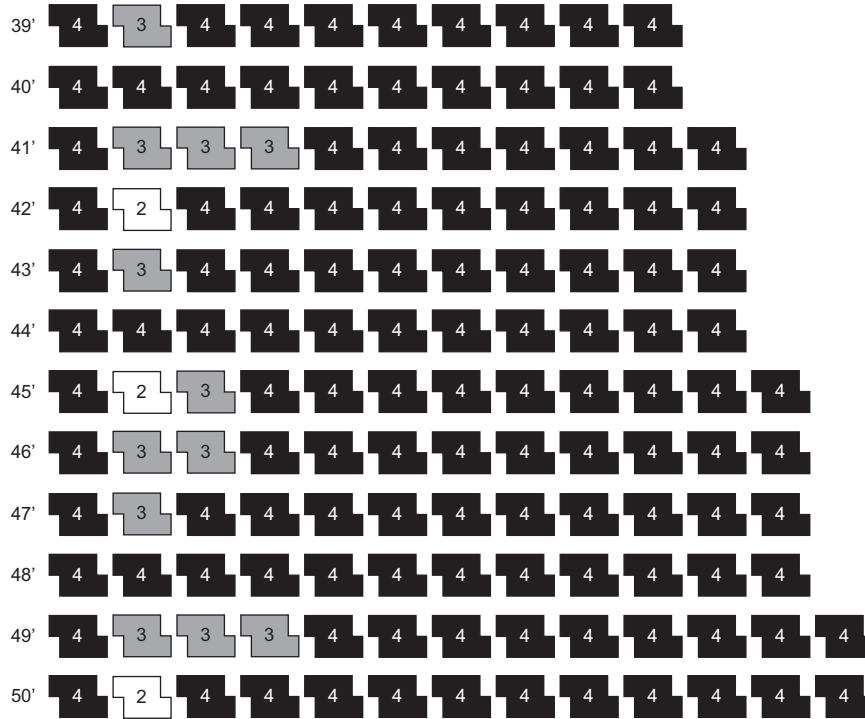
For additional configurations, see next page.






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### LAMP CONFIGURATIONS - 2T8 STAGGERED (Continued)

ACTUAL ROW LENGTH IS 6" MORE THAN NOMINAL.



#### LEGEND

-  2 (2) 2' lamps
-  3 (2) 3' lamps
-  4 (2) 4' lamps

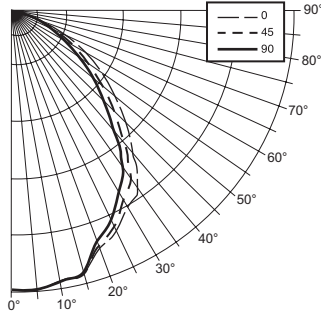
For photometry, see next page.

### PHOTOMETRY – FROSTED ACRYLIC LENS

Catalog #: **LX4S-4-132-A**

#### TEST REPORT INFORMATION

- ▶ Test Report #: 16763.0
- ▶ Date: 07/12/12
- ▶ Lamp Type: F32T8/835
- ▶ Lamp Quantity: 1



#### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	885.	885.	885.	
5°	890.	890.	890.	85.0
15°	873.	870.	865.	246.6
25°	780.	765.	744.	353.4
35°	700.	663.	622.	415.9
45°	523.	471.	418.	364.3
55°	358.	307.	270.	279.1
65°	214.	178.	158.	181.2
75°	93.	83.	76.	88.6
85°	21.	21.	21.	23.2
90°	0.	0.	0.	

#### ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor			
	.70	.50	.30	.70	.50	.30	.50	.30	.10	
Room Cavity Ratio	0	.82	.82	.82	.80	.80	.80	.77	.77	.77
	1	.76	.74	.71	.75	.72	.70	.69	.67	.66
	2	.71	.66	.62	.69	.65	.61	.62	.59	.56
	3	.65	.59	.54	.64	.58	.54	.56	.52	.49
	4	.60	.53	.48	.59	.52	.47	.51	.46	.43
	5	.56	.48	.42	.54	.47	.41	.45	.41	.37
	6	.51	.43	.37	.50	.42	.37	.41	.36	.33
	7	.48	.39	.33	.46	.38	.33	.37	.32	.29
	8	.44	.35	.29	.43	.35	.29	.34	.29	.25
	9	.40	.32	.26	.40	.31	.26	.30	.26	.22
	10	.38	.29	.23	.37	.28	.23	.28	.23	.20

Effective Floor Cavity Reflectance = .20

#### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	685.	23.2	33.6
0 - 40	1101.	37.3	54.0
0 - 60	1744.	59.1	85.6
0 - 90	2037.	69.1	100.0
<b>Total Luminaire:</b>			
0 - 180	2037.	69.1	100.0

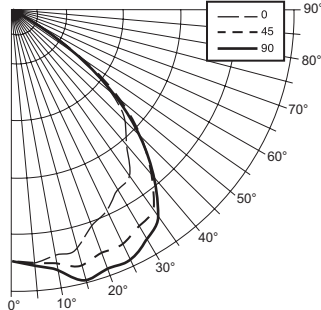
Total Luminaire Optical Efficiency: **69.1%**  
 IES Spacing Criteria: End = 1.2  
 Diagonal = 1.2  
 Across = 1.1

### PHOTOMETRY – SEMI-SPECULAR PARABOLIC LOUVER

Catalog #: **LX4S-4-132-SAPL**

#### TEST REPORT INFORMATION

- ▶ Test Report #: 16764.0
- ▶ Date: 07/12/12
- ▶ Lamp Type: F32T8/835
- ▶ Lamp Quantity: 1



#### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	826.	826.	826.	
5°	833.	838.	844.	80.0
15°	816.	872.	919.	246.4
25°	734.	853.	909.	387.2
35°	671.	809.	836.	493.8
45°	518.	600.	600.	452.6
55°	242.	288.	226.	239.1
65°	10.	35.	41.	29.1
75°	3.	3.	4.	4.0
85°	1.	1.	1.	1.0
90°	0.	0.	0.	

#### ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor			
	.70	.50	.30	.70	.50	.30	.50	.30	.10	
Room Cavity Ratio	0	.78	.78	.78	.76	.76	.76	.73	.73	.73
	1	.74	.71	.69	.72	.70	.68	.67	.66	.64
	2	.69	.65	.62	.68	.64	.61	.62	.59	.57
	3	.64	.59	.55	.63	.58	.55	.57	.53	.51
	4	.60	.54	.49	.59	.53	.49	.52	.48	.45
	5	.56	.49	.44	.54	.48	.44	.47	.43	.40
	6	.52	.44	.39	.50	.44	.39	.43	.38	.35
	7	.48	.40	.35	.47	.39	.35	.39	.34	.31
	8	.44	.36	.31	.43	.35	.31	.35	.30	.27
	9	.40	.32	.27	.39	.32	.27	.31	.27	.24
	10	.37	.29	.24	.36	.29	.24	.28	.24	.21

Effective Floor Cavity Reflectance = .20

#### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	714.	24.2	36.9
0 - 40	1207.	40.9	62.5
0 - 60	1899.	64.4	98.2
0 - 90	1933.	65.5	100.0
<b>Total Luminaire:</b>			
0 - 180	1933.	65.5	100.0

Total Luminaire Optical Efficiency: **65.5%**  
 IES Spacing Criteria: End = 1.3  
 Diagonal = 1.5  
 Across = 1.5

For additional photometry, see next page.

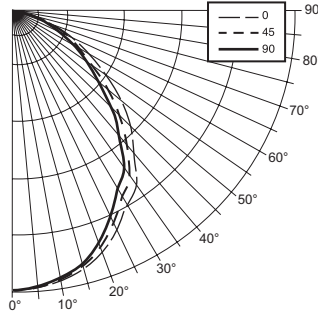


### PHOTOMETRY – FROSTED ACRYLIC LENS

Catalog #: LX4S-4-232-A

#### TEST REPORT INFORMATION

- ▶ Test Report #: 16761.0
- ▶ Date: 07/11/12
- ▶ Lamp Type: F32T8/835
- ▶ Lamp Quantity: 2



#### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1709.	1709.	1709.	
5°	1709.	1705.	1702.	162.8
15°	1646.	1629.	1611.	461.7
25°	1493.	1447.	1408.	670.9
35°	1323.	1250.	1189.	787.3
45°	1022.	930.	859.	724.2
55°	698.	618.	563.	561.1
65°	421.	371.	336.	371.9
75°	188.	172.	161.	183.2
85°	46.	48.	48.	52.1
90°	0.	0.	0.	

#### ZONAL CAVITY COEFFICIENTS

Ceiling		.80			.70			.50			
Room Cavity Ratio	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10	
	0	.80	.80	.80	.78	.78	.78	.75	.75	.75	
	1	.74	.72	.69	.73	.70	.68	.67	.66	.64	
	2	.69	.64	.60	.67	.63	.59	.60	.57	.55	
	3	.64	.57	.52	.62	.56	.52	.54	.51	.47	
	4	.59	.51	.46	.57	.51	.46	.49	.45	.41	
	5	.54	.46	.40	.52	.45	.40	.44	.39	.36	
	6	.50	.41	.36	.49	.41	.36	.40	.35	.31	
	7	.46	.37	.32	.45	.37	.32	.36	.31	.28	
	8	.42	.34	.28	.41	.33	.28	.32	.28	.24	
	9	.39	.30	.25	.38	.30	.25	.29	.24	.21	
10	.36	.28	.22	.35	.27	.22	.27	.22	.19		

Effective Floor Cavity Reflectance = .20

#### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1295.	22.0	32.6
0 - 40	2083.	35.3	52.4
0 - 60	3368.	57.1	84.7
0 - 90	3975.	67.4	100.0
<b>Total Luminaire:</b>			
0 - 180	3975.	67.4	100.0

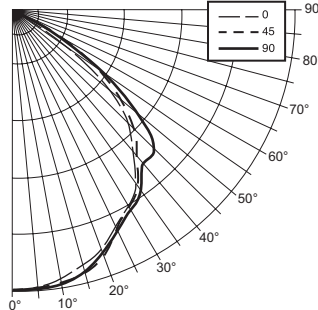
Total Luminaire Optical Efficiency: **67.4%**  
 IES Spacing Criteria: End = 1.2  
 Diagonal = 1.2  
 Across = 1.1

### PHOTOMETRY – SEMI-SPECULAR PARABOLIC LOUVER

Catalog #: LX4S-4-232-SAPL

#### TEST REPORT INFORMATION

- ▶ Test Report #: 16762.0
- ▶ Date: 07/12/12
- ▶ Lamp Type: F32T8/835
- ▶ Lamp Quantity: 2



#### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1613.	1613.	1613.	
5°	1608.	1612.	1612.	153.9
15°	1531.	1574.	1576.	443.3
25°	1394.	1413.	1421.	655.2
35°	1247.	1264.	1292.	798.2
45°	957.	1014.	1164.	799.3
55°	442.	608.	664.	520.4
65°	16.	74.	90.	63.0
75°	5.	5.	5.	5.3
85°	3.	3.	3.	3.3
90°	0.	0.	0.	

#### ZONAL CAVITY COEFFICIENTS

Ceiling		.80			.70			.50			
Room Cavity Ratio	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10	
	0	.69	.69	.69	.68	.68	.68	.65	.65	.65	
	1	.65	.63	.62	.64	.62	.61	.60	.58	.57	
	2	.61	.58	.55	.60	.57	.54	.55	.53	.51	
	3	.57	.53	.49	.56	.52	.48	.50	.47	.45	
	4	.53	.48	.44	.52	.47	.43	.46	.42	.40	
	5	.49	.43	.39	.48	.42	.38	.41	.38	.35	
	6	.46	.39	.34	.45	.38	.34	.37	.34	.31	
	7	.42	.35	.31	.41	.35	.30	.34	.30	.27	
	8	.39	.31	.27	.38	.31	.27	.30	.26	.24	
	9	.36	.28	.24	.35	.28	.24	.27	.23	.21	
10	.33	.26	.21	.32	.25	.21	.25	.21	.18		

Effective Floor Cavity Reflectance = .20

#### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1252.	21.2	36.4
0 - 40	2051.	34.8	59.6
0 - 60	3370.	57.1	97.9
0 - 90	3442.	58.3	100.0
<b>Total Luminaire:</b>			
0 - 180	3442.	58.3	100.0

Total Luminaire Optical Efficiency: **58.3%**  
 IES Spacing Criteria: End = 1.2  
 Diagonal = 1.2  
 Across = 1.3