

4" EXTRUDED RECTANGULAR – DOWNLIGHT

LX4D

SUBMITTAL:

T5

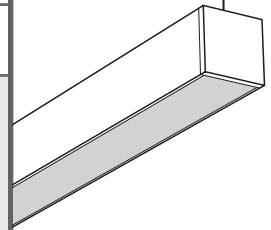
JOB:

TYPE:

VOLTAGE:

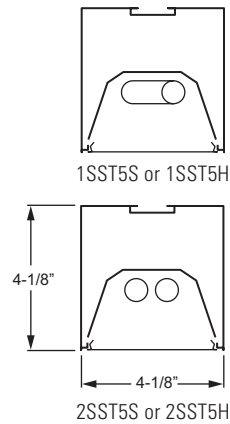
EXAMPLE → **LX4D - 4 - 1SST5H - A - OPTIONS - EB - UNV**

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.
- ▶ Moveable mounting hardware easily slides along the length of the fixture providing variable mounting points.
- ▶ 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.
- ▶ Standard 24" aircraft cable mounting hardware provided.
- ▶ This fixture is proudly made in the USA.



SPECIFICATIONS

Housing – Extruded aluminum with die-cast end caps.

Shielding – Extruded frosted acrylic lens or optional 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, program start T5, rated Class P. Light modules for row mounting equipped with quick-connect wiring harness standard.

Mounting – Suspended. 1/16" diameter adjustable steel leveling aircraft cable and mounting hardware necessary for grid ceiling applications provided.

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

ORDERING INFORMATION

SERIES

LX4D 4" Rectangular Extruded – Downlight

NOMINAL LENGTH¹

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-SECTION¹

For lamp configuration diagrams see page 8C-8E.

1SST5S 1-lamp, staggered T5
1SST5H 1-lamp, staggered T5HO
2SST5S 2-lamp, staggered T5
2SST5H 2-lamp, staggered T5HO

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 [Technical Info](#). 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-L6² End-mount sensor²

ACCESSORIES

ACF/48 48" adjustable aircraft cable
ACF/96 96" adjustable aircraft cable
MSF__ Microstem, 1/4" IPS, specify length in inches

BALLAST TYPE

For dimming options see [Technical Info](#). Ballast size restrictions apply. Consult factory.
EB Electronic ballast

VOLTAGE

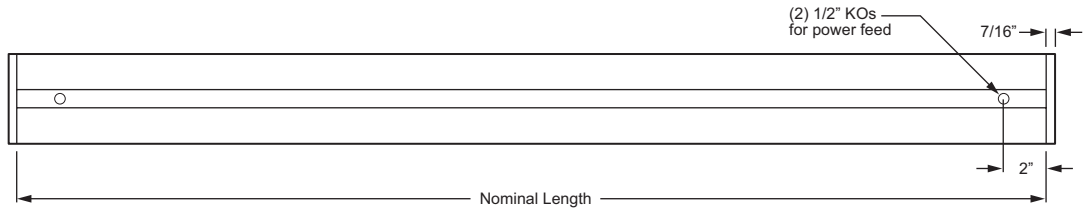
120 120V
277 277V
UNV 120-277V
347 347V

¹ Due to T5 lamp lengths and resulting lamp overlap, uneven lens illumination may occur.
² OCCWS FS-355-L6 option requires 120V or 277V.



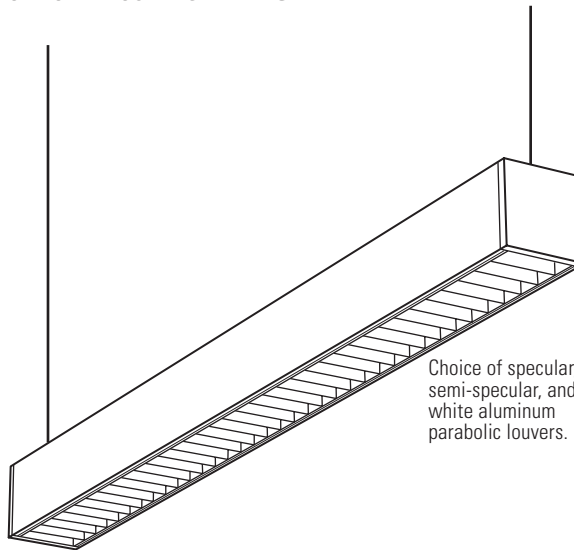
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BACK VIEW

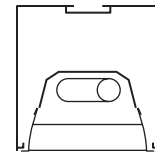


FIXTURE DETAILS

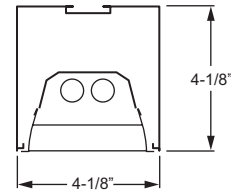
OPTIONAL LOUVER SHIELDING DETAIL



LOUVER CROSS-SECTIONS

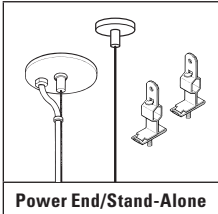


1SST5S or 1SST5H

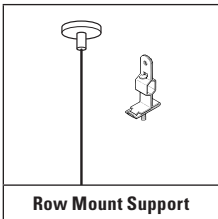


2SST5S or 2SST5H

STANDARD HARDWARE



Power End/Stand-Alone

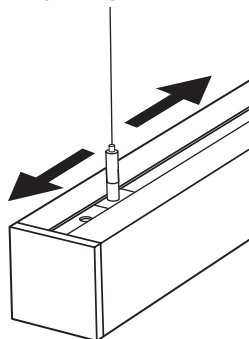


Row Mount Support

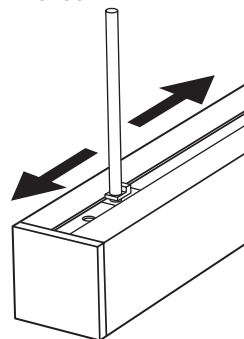
Notes:

- Fixtures are provided with adjustable length aircraft cables and choice of T-bar (standard) or optional hard pan ceiling hardware, must specify. See Fluorescent Information section for details.
- Electrical supply is brought into the feeder (or stand-alone) fixture, either as part of a row or as an individual mount unit 2" from end of fixture.

AIRCRAFT CABLE DETAIL

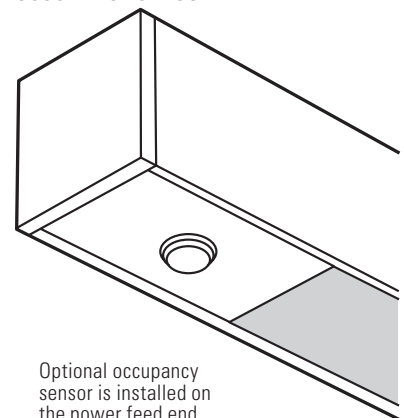


MICROSTEM DETAIL



Aircraft cable and microstem mounting accessories can be repositioned along the length of the channel, providing flexible mounting locations to suit any application. Lock into place using a #8 screw (provided).

OCCUPANCY SENSOR DETAIL



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

For lamp configurations, see next page.

T5

LAMP CONFIGURATIONS - 1T5 STAGGERED (Continued)

45'	4	2	2	3	3	3	3	3	4	4	4	4	4	4	4	4	4	LEGEND <div style="display: inline-block; border: 1px solid black; width: 15px; height: 10px; background-color: white; margin-right: 5px;"></div> 2' lamp <div style="display: inline-block; border: 1px solid black; width: 15px; height: 10px; background-color: gray; margin-right: 5px;"></div> 3' lamp <div style="display: inline-block; border: 1px solid black; width: 15px; height: 10px; background-color: black; margin-right: 5px;"></div> 4' lamp
46'	4	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4		
47'	4	2	2	2	3	4	4	4	4	4	4	4	4	4	4	4		
48'	4	2	2	3	3	4	4	4	4	4	4	4	4	4	4	4		
49'	4	2	3	3	3	4	4	4	4	4	4	4	4	4	4	4		
50'	4	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4		

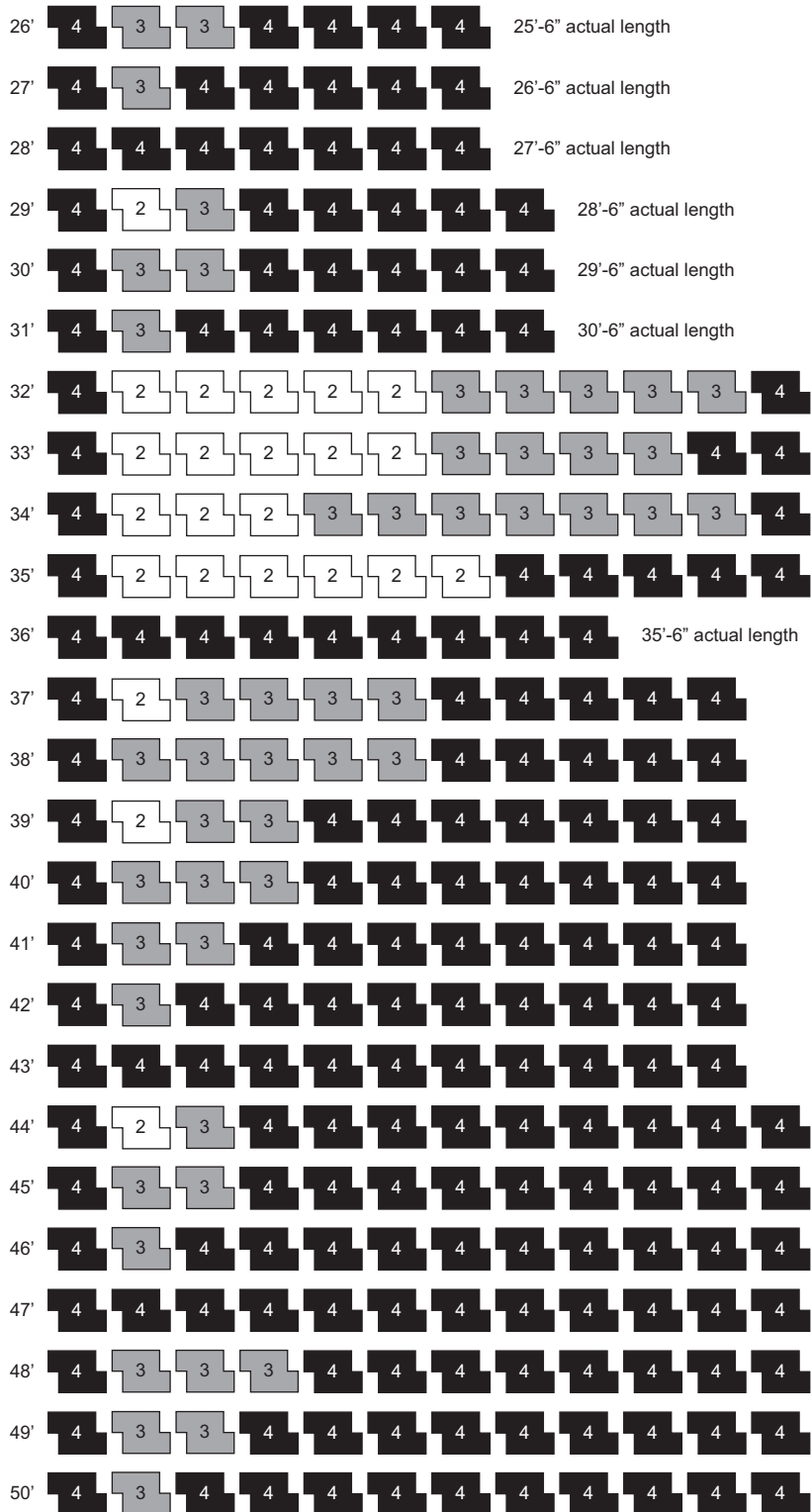
LAMP CONFIGURATIONS - 2T5 STAGGERED

2'	2	LEGEND <div style="display: inline-block; border: 1px solid black; width: 15px; height: 10px; background-color: white; margin-right: 5px;"></div> (2) 2' lamps <div style="display: inline-block; border: 1px solid black; width: 15px; height: 10px; background-color: gray; margin-right: 5px;"></div> (2) 3' lamps <div style="display: inline-block; border: 1px solid black; width: 15px; height: 10px; background-color: black; margin-right: 5px;"></div> (2) 4' lamps
3'	3	
4'	4	
5'	2 3	
6'	3 3	
7'	4 3	
8'	4 4	
9'	4 2 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	
16'	4 4 4 4	
17'	4 3 3 3 4	
18'	4 3 3 4 4	
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	




24'-6" actual length

For additional configurations, see next page.

LAMP CONFIGURATIONS - 2T5 STAGGERED (Continued)



LEGEND

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

For photometry, see next page.

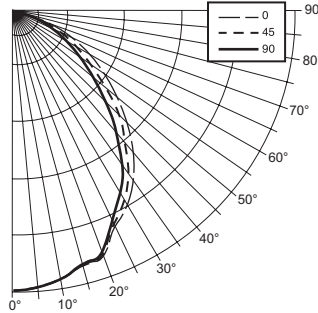
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PHOTOMETRY – FROSTED ACRYLIC LENS

Catalog #: LX4D-4-154T5H-A

TEST REPORT INFORMATION

- ▶ Test Report #: 16616.0
- ▶ Date: 03/20/12
- ▶ Lamp Type: F54T5H/841
- ▶ Lamp Quantity: 1



ZONAL CAVITY COEFFICIENTS

Ceiling		.80			.70			.50		
Wall		.70	.50	.30	.70	.50	.30	.50	.30	.10
Room Cavity Ratio	0	.78	.78	.78	.76	.76	.76	.73	.73	.73
	1	.73	.70	.68	.71	.69	.66	.66	.64	.62
	2	.67	.62	.59	.65	.61	.58	.59	.56	.53
	3	.62	.56	.51	.60	.55	.51	.53	.49	.46
	4	.57	.50	.45	.56	.49	.45	.48	.44	.40
	5	.53	.45	.39	.51	.44	.39	.43	.38	.35
	6	.49	.40	.35	.47	.40	.35	.39	.34	.31
	7	.45	.37	.31	.44	.36	.31	.35	.30	.27
	8	.41	.33	.28	.40	.32	.27	.32	.27	.24
	9	.38	.30	.24	.37	.29	.24	.28	.24	.21
	10	.36	.27	.22	.35	.27	.22	.26	.21	.18

Effective Floor Cavity Reflectance = .20

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1418.	1418.	1418.	
5°	1409.	1407.	1407.	134.4
15°	1347.	1345.	1343.	381.3
25°	1227.	1214.	1194.	561.2
35°	1071.	1031.	980.	646.0
45°	850.	777.	697.	600.7
55°	587.	510.	445.	460.9
65°	360.	307.	268.	308.2
75°	159.	142.	128.	150.9
85°	40.	40.	40.	43.9
90°	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1077.	21.5	32.8
0 - 40	1723.	34.5	52.4
0 - 60	2784.	55.7	84.7
0 - 90	3287.	65.7	100.0
Total Luminaire:			
0 - 180	3287.	65.7	100.0

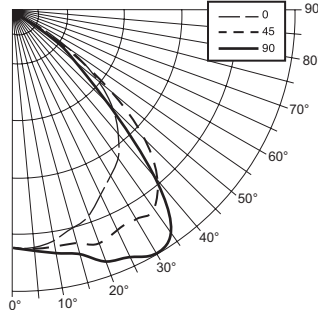
Total Luminaire Optical Efficiency: **65.7%**
 IES Spacing Criteria: End = 1.2
 Diagonal = 1.2
 Across = 1.2

PHOTOMETRY – SEMI-SPECULAR PARABOLIC LOUVER

Catalog #: LX4D-4-154T5H-SAPL

TEST REPORT INFORMATION

- ▶ Test Report #: 16617.0
- ▶ Date: 03/21/12
- ▶ Lamp Type: F54T5H/841
- ▶ Lamp Quantity: 1



ZONAL CAVITY COEFFICIENTS

Ceiling		.80			.70			.50		
Wall		.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	.39	.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

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1386.	1386.	1386.	
5°	1395.	1399.	1405.	133.6
15°	1319.	1405.	1475.	396.9
25°	1216.	1421.	1593.	653.4
35°	1079.	1435.	1627.	877.3
45°	860.	1142.	888.	783.3
55°	397.	430.	332.	375.8
65°	12.	57.	65.	46.8
75°	5.	5.	6.	6.2
85°	1.	1.	2.	1.5
90°	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1184.	23.7	36.2
0 - 40	2061.	41.2	62.9
0 - 60	3220.	64.4	98.3
0 - 90	3275.	65.5	100.0
Total Luminaire:			
0 - 180	3275.	65.5	100.0

Total Luminaire Optical Efficiency: **65.5%**
 IES Spacing Criteria: End = 1.2
 Diagonal = 1.5
 Across = 1.6

For additional photometry, see next page.

