

# ARCHITECTURAL SLIMLINE SUSPENDED

# LLM

**SUBMITTAL:**

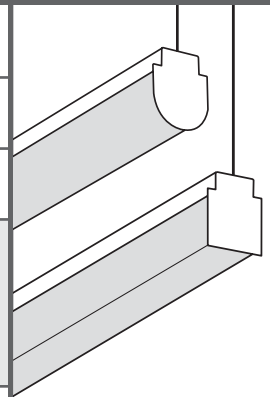
**JOB:**

**TYPE:**

**VOLTAGE:**

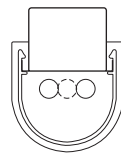
**EXAMPLE** → **LLM - 4 - 1 32 - S - SQ - OPTIONS - EB1 - UNV**

SERIES    NOMINAL LENGTH    TOTAL WATTAGE/LAMPS    FIXTURE TYPE    SHIELDING    OPTIONS    BALLAST TYPE    VOLTAGE

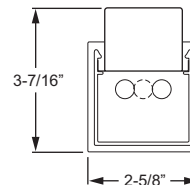


## FEATURES

- ▶ Slim, low-profile suspended-mount fixture provides an architectural alternative to standard wrap-around fixtures.
- ▶ Round or square profile provides design choices for a variety of applications.
- ▶ Quality, frosted, extruded acrylic lens snaps securely in place to provide gentle diffused illumination.
- ▶ Slim end plates are designed to conform to lens shape and prevent unsightly light leaks.
- ▶ Internal, self-aligning joining method ensures straight rows.
- ▶ This fixture is proudly made in the USA.



1- or 2-lamp cross-section; shown with RD



1- or 2-lamp cross-section; shown with SQ

**2-lamp cross-section available in T5S only.**

## SPECIFICATIONS

**Housing** – 20-gauge die-formed C.R.S.  
**Shielding** – Frosted, matte acrylic, round or square profile.  
**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, program start T5, rated Class P.  
**Mounting** – Suspended. 1/16" diameter adjustable steel aircraft cable and mounting hardware necessary for grid ceiling applications provided. See back for details.  
**Labels** – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.

## ORDERING INFORMATION

### SERIES

**LLM** Architectural Slimline Suspended

### NOMINAL LENGTH

T5 and T8 fixture lengths vary, see back for details.

2	2'
3	3'
4	4'
8	8'

### TOTAL LAMPS

1- or 2-lamp cross-section; 2-lamp cross-section in T5S only

1	1-lamp cross-section
2	1- or 2-lamp cross-section (2-lamp cross-section available in T5S only)
4	2-lamp cross-section (available in 8', T5S only)

### LAMP WATTAGE/TYPE

2-lamp cross-section in T5S only.

#### 2' FIXTURE LAMP OPTIONS

14T5S	2', 14-watt T5
17	2', 17-watt T8
24T5H	2', 24-watt T5HO

#### 3' FIXTURE LAMP OPTIONS

21T5S	3', 21-watt T5
25	3', 25-watt T8
39T5H	3', 39-watt T5HO

#### 4' & 8' FIXTURE LAMP OPTIONS

28T5S	4', 28-watt T5 (1- or 2-lamp ballast[s] only)
32	4', 32-watt T8
54T5H	4', 54-watt T5HO

### FIXTURE TYPE

F	Electrical feeder unit, 3-conductor straight white cord standard (wire gauge to be determined by row length), quick-connect wiring harness, one end plate installed
J	Joiner unit, no cord, quick-connect wiring harness, no end plates
E	End unit, no cord, quick-connect wiring harness, one end plate installed
S	Stand-alone unit, 3-conductor straight white cord standard, two end plates installed

### SHIELDING

RD	Round frosted acrylic
SQ	Square frosted acrylic

### OPTIONS

For generic **EM ballast** options, 8' units only, see Fluorescent Information section. **Ballast size restricted** to maximum ballast cross-section of 1-1/2"W x 1-1/4"H. Must specify voltage.<sup>1</sup>

C2_	Two-circuit quick-connect wiring harness (see Information section for complete quick-connect offering)
EM/ISL54	Emergency ballast, 4' units only, must specify voltage

### BALLAST TYPE

For **dimming ballast** options, see Information section.

EB1	1-lamp electronic ballast
EB2	2-lamp electronic ballast
EB2/2	(2) 2-lamp electronic ballasts (T5S only)

### VOLTAGE

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

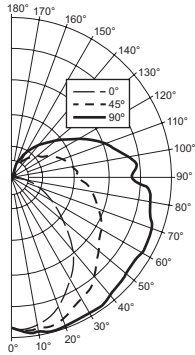
<sup>1</sup> EM ballast(s) not available on 2' and 3' units.



PHOTOMETRY INFORMATION

TEST REPORT INFORMATION

- ▶ Test Report #: 16674.0
- ▶ Date: 05/01/12
- ▶ Lamp Type: F32T8/835
- ▶ Lamp Quantity: 1



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	455.	455.	455.	
5°	459.	464.	470.	44.3
15°	436.	462.	479.	130.4
25°	382.	434.	472.	199.5
35°	317.	407.	471.	253.2
45°	230.	357.	455.	273.1
55°	159.	320.	447.	282.6
65°	101.	292.	451.	285.4
75°	50.	256.	429.	264.1
85°	14.	223.	412.	240.3
90°	0.	191.	359.	
95°	0.	193.	376.	211.1
105°	0.	168.	316.	174.6
115°	1.	140.	260.	136.6
125°	3.	106.	194.	93.2
135°	7.	84.	146.	63.2
145°	11.	69.	112.	42.2
155°	11.	44.	67.	19.9
165°	14.	35.	44.	9.3
175°	13.	16.	20.	1.6
185°	13.	13.	13.	

ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor			
	.80	.50	.30	.70	.50	.30	.50	.30	.10	
Room Cavity Ratio	0	1.04	1.04	1.04	.98	.98	.98	.88	.88	.88
	1	.92	.86	.82	.87	.82	.77	.73	.70	.66
	2	.82	.74	.66	.77	.70	.63	.62	.57	.52
	3	.75	.64	.56	.70	.61	.53	.54	.48	.43
	4	.68	.56	.48	.64	.53	.46	.48	.41	.36
	5	.62	.49	.41	.58	.47	.39	.42	.35	.30
	6	.57	.44	.35	.53	.42	.34	.38	.31	.26
	7	.52	.39	.31	.49	.37	.30	.34	.27	.22
	8	.48	.35	.27	.45	.34	.26	.30	.24	.19
	9	.45	.32	.24	.42	.30	.23	.27	.21	.17
	10	.41	.29	.22	.39	.28	.21	.25	.19	.15

Effective Floor Cavity Reflectance = .20

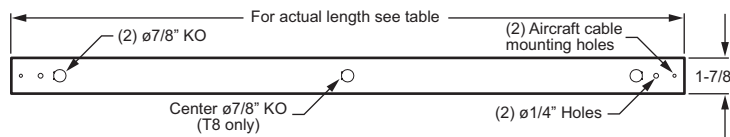
LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	374.	12.7	13.7
0 - 40	627.	21.3	23.0
0 - 60	1183.	40.1	43.4
0 - 90	1973.	66.9	72.4
90 - 120	522.	17.7	19.2
90 - 130	615.	20.9	22.6
90 - 150	721.	24.4	26.5
90 - 180	752.	25.5	27.6
<b>Total Luminaire:</b>			
0 - 180	2724.	92.4	100.0

Total Luminaire Optical Efficiency: **92.4%**  
IES Spacing Criteria: End = 1.1, Diagonal = 1.4, Across = 1.6

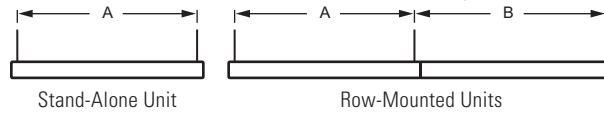
FIXTURE DETAILS

BACK VIEW



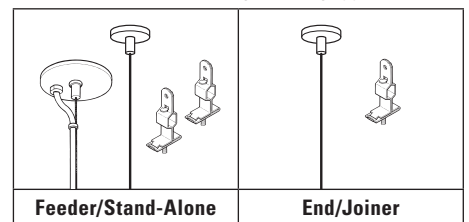
NOMINAL LENGTH	(T5) ACTUAL LENGTH	(T8) ACTUAL LENGTH
2'	22-3/4"	24-1/4"
3'	34-1/2"	36-3/16"
4'	46-3/8"	48-3/16"
8'	92-3/4"	96-3/8"

MOUNTING INFORMATION (center to center mounting cable)



Nominal Unit Length	Cable Mount (T5)		Cable Mount (T8)	
	A	B	A	B
2'	21-3/4"	22-3/4"	23-1/4"	24-1/4"
3'	33-1/2"	34-1/2"	35-3/16"	36-3/16"
4'	45-3/8"	46-3/8"	47-3/16"	48-3/16"
8'	91-3/4"	92-3/4"	95-3/8"	96-3/8"

STANDARD HARDWARE (grid ceiling applications)



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. Joiner and end fixtures complete the row.