

Shown with SQ

CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

**FEATURES**

- Tunable white from 3000K to 5000K CCT, minimum 80 CRI
- Slim, low-profile suspended or surface 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
- Made Right Here® in the USA

**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 – High quality mid-power LED board. L70 > 50,000 hours per IES TM-21. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – Surface (ceiling or wall) or suspended (hanging hardware required)
- LISTINGS – cETLus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations.
- WARRANTY – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty)

**ORDERING EXAMPLE: LLM - 4 - L10/8TW - S - SQ - ACF/D48 - OPTIONS - DIM - UNV**

**ORDERING INFO**

SERIES	NOMINAL LENGTH	LUMENS <sup>[1]</sup>	COLOR	MOUNTING TYPE
LLM	Stand-alone: 2', 4' & 8' nominal lengths, fixture ships assembled. Example: 4 = 4'	L10 1,000lm	8TW Tunable white (80 CRI, 3000K-5000K)	S Surface
	Row-mount: Lengths specified in 4' increments Example: 12 = 12'	L15 1,500lm		P Suspended
<b>Product Builder</b> Simplify ordering & layout design with the Williams Linear Product Builder at <a href="http://hew.com">hew.com</a>				

SHIELDING	MOUNTING	
RD Round frosted acrylic	AIRCRAFT CABLES (EXAMPLE: ACF/D48) <sup>[2]</sup>	
SQ Square frosted acrylic		Prefix      Type      Length
		ACF/ Feeder    D 1" grid & hardpan    24 24"
	ACJ/ Joiner    N 9/16" grid            48 48"	
	S Slot grid            96 96"	

OPTIONS <sup>[3]</sup>	CONTROL <sup>[4]</sup>	VOLTAGE
EM/10WLP Low profile 10-watt emergency battery <sup>[5]</sup>	DALI Driver prewired for DALI applications	120 120V 277 277V
EM/12WR Remote mount 12-watt emergency battery	DIM Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT	UNV 120-277V
(L__) Additional lower lumen packages available. Example: 3,500 nominal lumens = LLM-4-L10/8TW-(L40) <sup>[6]</sup>	DMX Driver prewired for DMX applications	
PS/120 Pull switch, single circuit <sup>[7]</sup>	PSO Lutron T-Series 2-channel tunable white 1%.	
PS2/120 Two-circuit, 4-position pull switch <sup>[8]</sup>		
WRS/120 White rocker switch <sup>[9]</sup>		
45AMB (2) 45° adjustable mounting brackets <sup>[10]</sup>		

**NOTES**

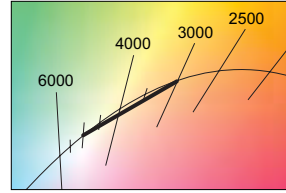
- <sup>1</sup> Lumen output based on 4000 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- <sup>2</sup> Specify with P Mounting Type only. See page 3 for SUSPENDED MOUNTING DETAILS.
- <sup>3</sup> See page 3 for FINISH OPTIONS.
- <sup>4</sup> See page 2 for CONTROL DETAILS.
- <sup>5</sup> Available in 4' and 8' lengths only.
- <sup>6</sup> Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- <sup>7</sup> 120V only. Surface mount only.
- <sup>8</sup> 120V only. Surface mount only. Requires two drivers per fixture
- <sup>9</sup> 120V only. Surface mount only.
- <sup>10</sup> Cord recommended, ordered separately. Field-adjustable up and down in 7-1/2" increments.

**FIXTURE PERFORMANCE DATA**

	PER FOOT				
	DELIVERED LUMENS		EFFICACY (lm/W)		WATTAGE
	RD LENS	SQ LENS	RD LENS	SQ LENS	
L10	987	1007	143.7	146.7	6.9
L15	1499	1529	138.8	141.7	10.8

**MULTIPLIER TABLE**

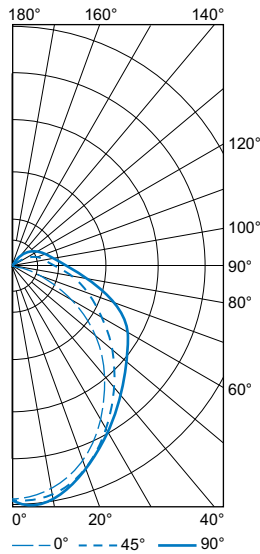
CCT	CONVERSION FACTOR	
	LUMENS	WATTAGE
3000K	0.95	1.04
3500K	0.98	1.02
4000K	1.00	1.00
5000K	0.96	1.04



- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 4000K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

**PHOTOMETRY**

LLM-4-L10/8TW-5-SQ-DALI Total Luminaire Output: 3897 lumens; 26.6 Watts | Efficacy: 147 lm/W | 80 CRI; 4000K CCT

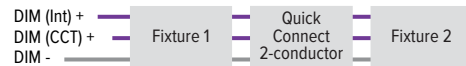


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1189	1189	1189	
5	1194	1199	1202	113
15	1101	1119	1125	317
25	951	985	1000	454
35	767	833	879	517
45	549	672	774	517
55	361	535	679	476
65	218	425	581	411
75	104	312	441	317
85	31	227	328	223
90	5	172	248	
95	0	164	230	154
105	0	133	179	121
115	0	109	147	94
125	0	90	125	71
135	0	73	102	50
145	0	64	90	35
155	0	48	63	19
165	0	35	41	8
175	0	12	24	1
180	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	884	23
0 - 40	1400	36	
0 - 60	2393	61	
0 - 90	3343	86	
90 - 180	554	14	
0 - 180	3897	100	

**CONTROL DETAILS**

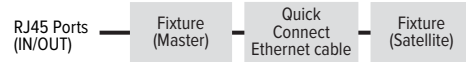
**DIM**



**DALI**



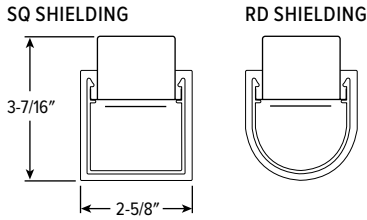
**DMX**



**LUTRON T-SERIES**

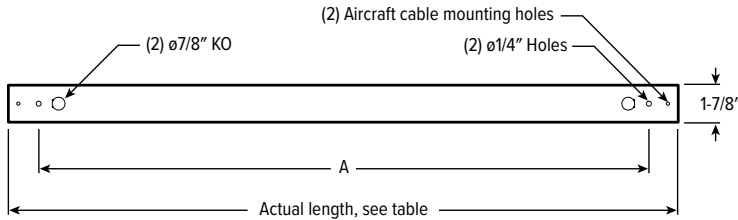


**CROSS SECTIONS**



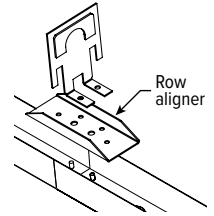
**FIXTURE DETAILS**

**BACKVIEW**



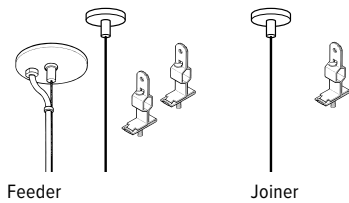
NOMINAL LENGTH	ACTUAL LENGTH	A
2'	24-5/16"	23-5/16"
4'	46-7/16"	45-7/16"
8'	92-15/16"	91-15/16"

**ROW ALIGNER DETAIL**



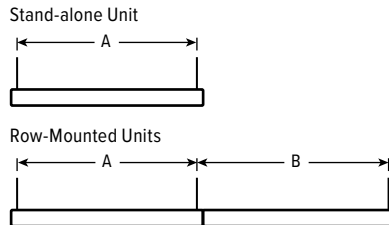
**SUSPENDED MOUNTING DETAILS**

**STANDARD HARDWARE (Grid and Hardpan)**



- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

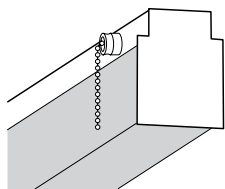
**CENTER-TO-CENTER MOUNTING CABLE DETAIL**



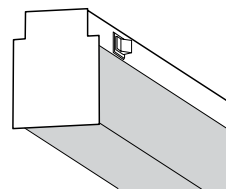
	CABLE MOUNT	
	A	B
2'	23-1/4"	24-1/4"
4'	45-3/8"	46-3/8"
8'	91-3/4"	92-3/4"

**OPTIONS DETAILS (surface mount only)**

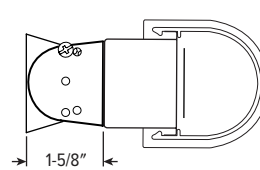
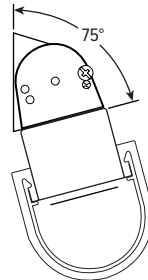
**PS/120 OR PS2/120**  
(Pull switch, single or two-circuit)



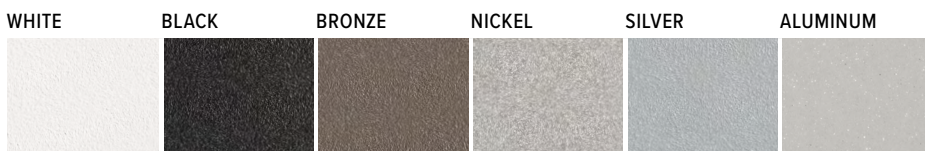
**WRS/120**  
(White rocker switch)



**45AMB**



**FINISH OPTIONS**



For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

