

CATALOG #: _____

TYPE: _____

PROJECT: _____



FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- 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. See fixture performance data for lumen maintenance.
- MOUNTING** – Surface (ceiling or wall) or suspended (hanging hardware required)
- LISTINGS** –
 - cCSAus certified as luminaire suitable for dry or damp locations.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY** – 5-year limited warranty, see hew.com/warranty

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

ORDERING INFO

SERIES	NOMINAL LENGTH ^[1]	LUMENS ^[2]	CRI	CCT
LLM	Stand-alone: 2', 4' & 8' nominal lengths, fixture ships assembled. Example: 4 = 4'	L10 1,000lm	8 80	TW Tunable white (3000K-5000K)
	Row-mount: Lengths specified in 4' increments Example: 12 = 12'	L15 1,500lm	9 90 ^[3]	TW2 Tunable white (2700K-6500K)
Product Builder Simplify ordering & layout design with the Williams Linear Product Builder at hew.com				

MOUNTING TYPE	SHIELDING	MOUNTING			
S Surface	RD Round frosted acrylic	AIRCRAFT CABLES (EXAMPLE: ACF/D48) ^[4]			
P Suspended	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	CONTROL ^[5]	VOLTAGE
See page 3 for FINISH OPTIONS.		
EM/10WLP Low profile 10-watt emergency battery ^[6]	DALI Driver prewired for DALI applications	120 120V
EM/10WRM Remote mount 10-watt emergency battery ^[7]	DIM Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT	277 277V
EM/12WRM Remote mount 12-watt emergency battery ^[8]	DMX Driver prewired for DMX applications	UNV 120-277V
(L___) Additional lower lumen packages available. Example: 800 nominal lumens = LLM-4-L10/8TW-(L8) ^[9]	PSQ Lutron T-Series 2-channel tunable white 1%	
PS/120 Pull switch, single circuit ^[10]		
WRS/120 White rocker switch ^[11]		
45AMB (2) 45° adjustable mounting brackets ^[12]		

NOTES

- 8' length ships with (2) 4' lenses.
- Lumens per foot output based on 80 CRI/4000K CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- Extended lead times may apply. Consult factory for availability.
- Specify with P Mounting Type only. See page 3 for MOUNTING DETAILS.
- See page 2 for CONTROL DETAILS.
- Available in 4' and 8' lengths only.
- See page 3 for MOUNTING DETAILS.
- Not available when CEC regulations are required. See page 3 for MOUNTING DETAILS.
- (L5) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- 120V only. Surface mount only.
- 120V only. Surface mount only.
- Cord recommended, ships separately. Field-adjustable up and down in 7-1/2° increments.

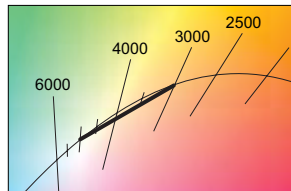


FIXTURE PERFORMANCE DATA

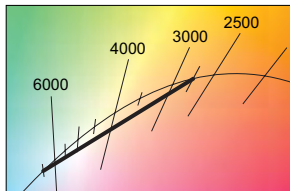
	PER FOOT					LUMEN MAINTENANCE ⁽¹⁾			
	DELIVERED LUMENS		EFFICACY (lm/W)		WATTAGE	L70	L80	L85	L90
	RD LENS	SQ LENS	RD LENS	SQ LENS					
L10	1007	1028	118	121	8.5	>54000	>37000	>26000	>16000
L15	1462	1492	113	116	12.9	>54000	>37000	>26000	>16000

- ¹ Predicted lumen maintenance calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/4000K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
 - To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
 - Use multiplier table to calculate additional options.

TW



TW2

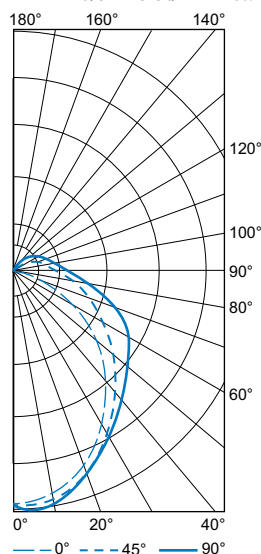


MULTIPLIER TABLE

	COLOR TEMPERATURE				
	CCT	TW		TW2	
		LUMENS	WATTAGE	LUMENS	WATTAGE
80 CRI	2700K	—	—	0.93	1.02
	3000K	0.95	1.04	0.95	1.01
	3500K	0.98	1.02	0.98	1.00
	4000K	1.00	1.00	1.00	1.00
	5000K	0.96	1.04	1.02	1.00
90 CRI	2700K	—	—	0.81	1.02
	3000K	0.83	1.04	0.83	1.01
	3500K	0.86	1.02	0.86	1.00
	4000K	0.88	1.00	0.88	1.00
	5000K	0.84	1.04	0.89	1.00
	6500K	—	—	0.88	1.04

PHOTOMETRY

LLM-4-L10/8TW-S-SQ-DALI Total Luminaire Output: 4010 lumens; 32 Watts | Efficacy: 125 lm/W | 80 CRI; 4000K CCT

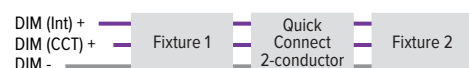


	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
CANDLEPOWER DISTRIBUTION	0	1223	1223	1223	
	5	1228	1234	1237	117
	15	1133	1151	1157	326
	25	978	1014	1029	467
	35	790	857	905	531
	45	565	691	796	532
	55	372	551	699	490
	65	224	438	598	423
	75	107	322	453	326
	85	31	234	337	229
	90	5	177	256	
	95	0	169	237	158
	105	0	137	184	125
	115	0	112	151	96
	125	0	92	129	73
	135	0	75	105	52
	145	0	66	92	36
	155	0	49	65	20
	165	0	36	42	8
	175	0	13	25	1
	180	0	0	0	

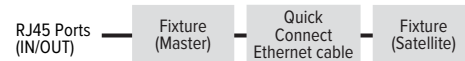
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	909	23
	0 - 40	1441	36
	0 - 60	2462	61
	0 - 90	3440	86
	90 - 180	570	14
	0 - 180	4010	100

CONTROL DETAILS

DIM



DMX



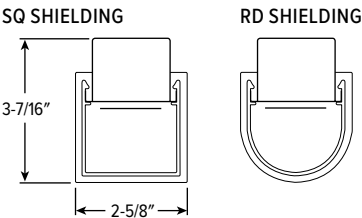
DALI



LUTRON T-SERIES

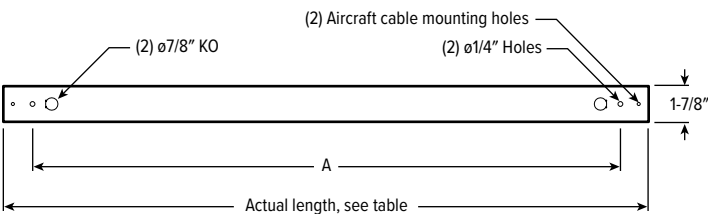


CROSS SECTIONS



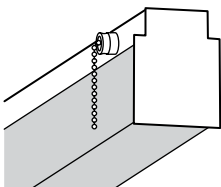
FIXTURE DETAILS

BACKVIEW

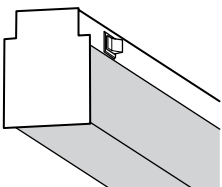


NOMINAL LENGTH	ACTUAL LENGTH	A
2'	24-5/16"	23-5/16"
4'	46-7/16"	45-7/16"
8'	92-15/16"	91-15/16"

PS/120 OPTION

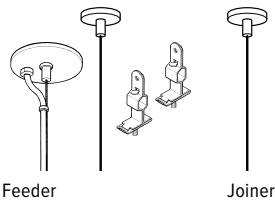


WRS/120 OPTION



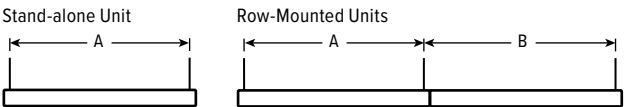
MOUNTING DETAILS

SUSPENDED MOUNT STANDARD HARDWARE (Grid and Hardpan)



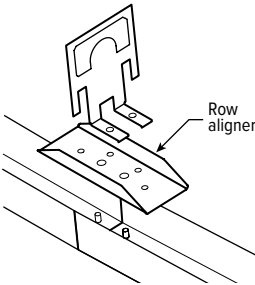
- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the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

CENTER-TO-CENTER SUSPENDED MOUNTING CABLE

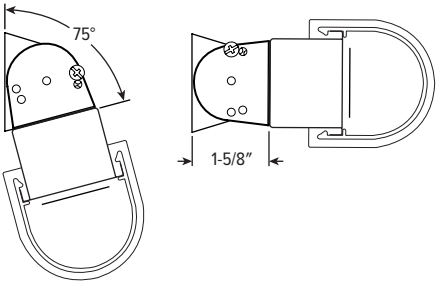


	CABLE MOUNT	
	A	B
2'	23-1/4"	24-1/4"
4'	45-3/8"	46-3/8"
8'	91-3/4"	92-3/4"

ROW ALIGNER

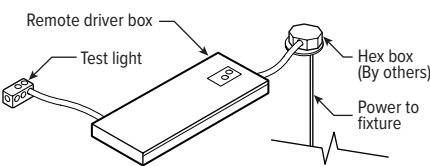


45AMB

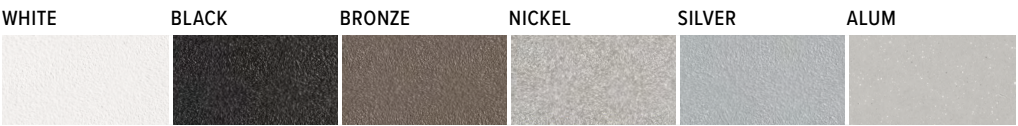


REMOTE MOUNT BATTERY

Max remote distance 50'.



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.

