

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

SHIELDING	MOUNTING		
RD Round frosted acrylic	AIRCRAFT CABLES (EXAMPLE: ACF/D48) ^[4]		
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 ^[5]	CONTROL ^[6]	VOLTAGE
EM/7WRM Remote mount 7-watt emergency battery	DALI Driver prewired for DALI applications	120 120V
EM/10WLP Low profile 10-watt emergency battery ^[7]		277 277V
EM/10WRM Remote mount 10-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
EM/12WRM Remote mount 12-watt emergency battery		
(L__) Additional lower lumen packages available. Example: 800 nominal lumens = LLM-4-L10/8TW-(L8) ^[8]	DMX Driver prewired for DMX applications	
PS/120 Pull switch, single circuit ^[9]	PSQ Lutron T-Series 2-channel tunable white 1%.	
PS2/120 Two-circuit, 4-position pull switch ^[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 4000 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 SUSPENDED MOUNTING DETAILS.
- See page 3 for FINISH OPTIONS.
- See page 2 for CONTROL DETAILS.
- Available in 4' and 8' lengths only.
- (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. Requires two drivers per fixture
- 120V only. Surface mount only.
- Cord recommended, ships separately. Field-adjustable up and down in 7-1/2° increments.

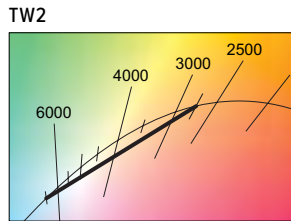
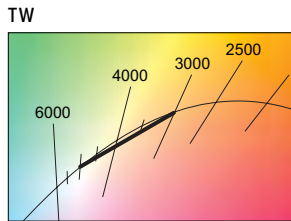
FIXTURE PERFORMANCE DATA

	PER FOOT					LUMEN MAINTENANCE			
	DELIVERED LUMENS		EFFICACY (lm/W)		WATTAGE	L70	L80	L85	L90
	RD LENS	SQ LENS	RD LENS	SQ LENS					
L10	1007	1028	119.9	122.3	8.5	>54000	>37000	>26000	>16000
L15	1462	1492	114.4	116.7	12.9	>54000	>37000	>26000	>16000

- 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.

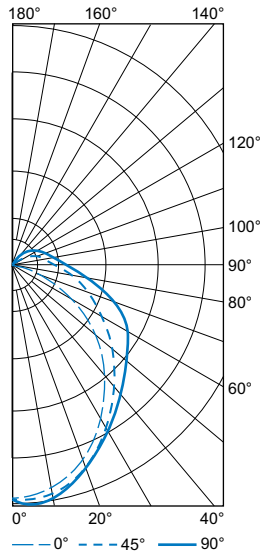
MULTIPLIER TABLE

	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
6500K	-	-	1.01	1.04	
90 CRI	2700K	-	-	0.93	1.02
	3000K	0.91	1.03	0.95	1.01
	3500K	0.96	1.01	0.98	1.00
	4000K	1.00	1.00	1.00	1.00
	5000K	1.03	1.03	1.03	1.00
	6500K	-	-	1.02	1.04



PHOTOMETRY

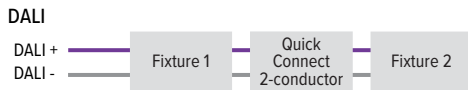
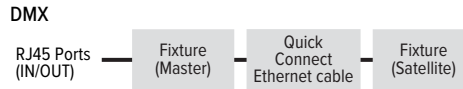
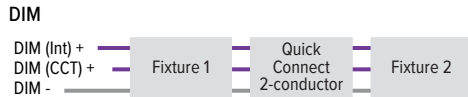
LLM-4-L10/8TW-S-SQ-DALI Total Luminaire Output: 4010 lumens; 32 Watts | Efficacy: 125 lm/W | 80 CRI; 4000K CCT



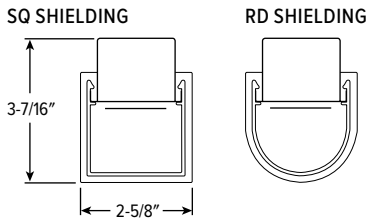
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1223	1223	1223	
5	1228	1234	1237	117
15	1133	1151	1157	326
25	978	1014	1029	467
35	790	857	905	531
45	565	691	796	532
55	372	551	699	490
65	224	438	598	423
75	107	322	453	326
85	31	234	337	229
90	5	177	256	
95	0	169	237	158
105	0	137	184	125
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

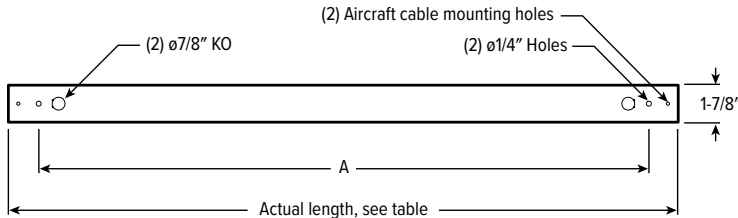


CROSS SECTIONS



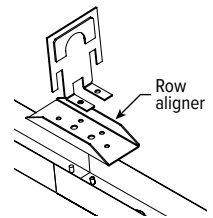
FIXTURE DETAILS

BACKVIEW



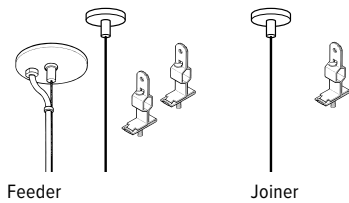
NOMINAL LENGTH	ACTUAL LENGTH	A
2'	24-5/16"	23-5/16"
4'	46-7/16"	45-7/16"
8'	92-15/16"	91-15/16"

ROW ALIGNER DETAIL



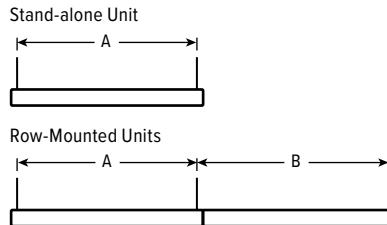
SUSPENDED MOUNTING DETAILS

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

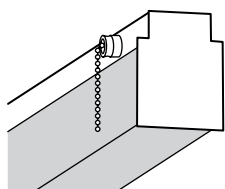


	CABLE MOUNT	
	A	B
2'	23-1/4"	24-1/4"
4'	45-3/8"	46-3/8"
8'	91-3/4"	92-3/4"

OPTIONS DETAILS (surface mount only)

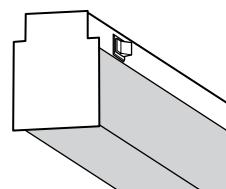
PS/120 OR PS2/120

(Pull switch, single or two-circuit)

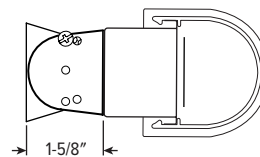
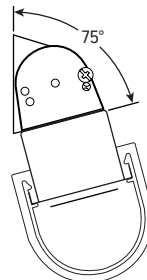


WRS/120

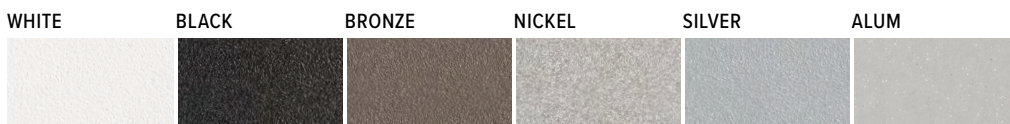
(White rocker switch)



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.

