

CATALOG #:

TYPE:

PROJECT:



FEATURES

- 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
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Wireless in-fixture control solutions available
- 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 boards. L80 >72,000 hours per IES TM-21. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple 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 –
 - cCSAus certified as luminaire suitable for dry or damp locations.
 - UL 924 available, see Options.
 - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: LLM - 4 - L6/835 - S - SQ - ACF/D48 - OPTIONS - CONTROL/DIM - UNV

SERIES	NOMINAL LENGTH ^[1]	LUMENS ^[2]	CRI	CCT
LLM	Stand-alone: 2', 4', 6' & 8' nominal lengths, fixture ships assembled. Example: 4 = 4'	L6 600lm	8 80	27 2700K
		L10 1,000lm	9 90	30 3000K
		L15 1,500lm		35 3500K
	Row-mount: Lengths specified in 24" increments Example: 12 = 12'	L20 2,000lm ^[3]		40 4000K
				50 5000K
	Product Builder Simplify ordering & layout design with the Williams Linear Product Builder at hew.com/product-builder			TW Tunable white (3000K-5000K)
				TW2 Tunable white (2700K-6500K)

MOUNTING TYPE

S Surface
P Suspended

SHIELDING

RD Round frosted acrylic
SQ Square frosted acrylic

MOUNTING

AIRCRAFT CABLES (EXAMPLE: ACF/D48) ^[4]			
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

See page 2 for **EMERGENCY BATTERY OPTIONS**.
See page 4 for **FINISH OPTIONS**.

PS/120	Pull switch, single circuit ^[5]
WRS/120	White rocker switch ^[6]
45AMB	(2) 45° adjustable mounting brackets ^[7]
(L__)	Additional lower lumen packages available ^[8] Example: 800 lumens = LLM-4-L10/835-(L8)
GEN	Approved for UL 924 emergency generator circuit through-feed wiring ^[9]

CONTROL

Click [HERE](#) for linear control and sensor options.
Click [HERE](#) for industrial control and sensor options.

– None

DRIVER

See page 4 for **ADDITIONAL DRIVER OPTIONS**.

DIM	Driver with external 0-10V dimming wires
DIM1	1% Driver with external 0-10V dimming wires
DRV	Driver without external dimming wires ^[11]

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V ^[10]

NOTES

¹ 8' length ships with (2) 4' lenses.

² Lumens per foot output based on 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%, see page 2 for **FIXTURE PERFORMANCE DATA**. Additional lumen packages available, see Options.

³ Static white CCT only.

⁴ Must specify P Mounting Type only. See page 3 for **MOUNTING DETAILS**.

⁵ 120V only. S Mounting Type only.

⁶ 120V only. S Mounting Type only.

⁷ Surface mount only. Cord recommended, ships separately. See page 3 for **MOUNTING DETAILS**. Field-adjustable up and down in 7-1/2° increments.

⁸ (L5) lumen package minimum. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.

⁹ Maximum mounting height is 15.4' (4.7 m). Minimum lumen output is 400 lm/ft. See hew.com/UL924 for details.

¹⁰ Not available with Tunable White or EM batteries.

¹¹ Not available with tunable white.



FIXTURE PERFORMANCE DATA

	PER FOOT				
	DELIVERED LUMENS		EFFICACY (lm/W)		WATTAGE
	RD LENS	SQ LENS	RD LENS	SQ LENS	
L6	597	609	153	156	3.9
L10	990	1010	148	151	6.7
L15	1505	1536	145	148	10.4
L20	1986	2027	144	147	13.8

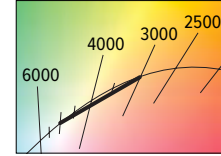
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI, 3500K for single CCT and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.
- POE PR fixture efficacy is typically 10-12% higher than shown at same lumen level. Consult factory during project design phase for details.

MULTIPLIER TABLE

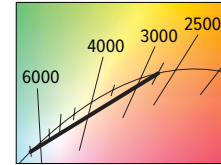
	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	—	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	—	—	1.01

90 CRI	2700K	0.80	—	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	—	—	1.02

TW

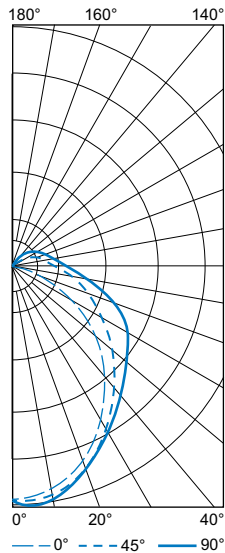


TW2



PHOTOMETRY

LLM-4-L10/835-S-SQ Total Luminaire Output: 3920 lumens; 24.7 Watts | Efficacy: 159 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1196	1196	1196	
5	1201	1206	1209	114
15	1107	1126	1131	318
25	956	991	1005	457
35	772	838	884	520
45	553	676	779	520
55	363	538	683	479
65	219	428	584	413
75	105	314	443	319
85	31	229	330	224
90	5	173	250	
95	0	165	232	154
105	0	134	180	122
115	0	110	148	94
125	0	90	126	72
135	0	73	103	51
145	0	64	90	35
155	0	48	63	20
165	0	36	41	8
175	0	12	24	1
180	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	889	23
	0 - 40	1408	36
	0 - 60	2407	61
	0 - 90	3363	86
	90 - 180	557	14
	0 - 180	3920	100

EMERGENCY BATTERY OPTIONS

Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION
EM/10WLP	Low profile 10-watt emergency battery ^[1]
EM/10WRM	Remote mount 10-watt emergency battery ^[2]
EM/10WRM/RTS	Remote mount 10-watt emergency battery with regressed test switch ^[2]
EM/12WRM	Remote mount 12-watt emergency battery ^{[2] [3]}

- Available in 4' and 8' lengths only. Not available with L20 lumen package.
- Large remote box provided.
- Not available when CEC regulations are required.

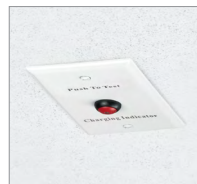
REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS



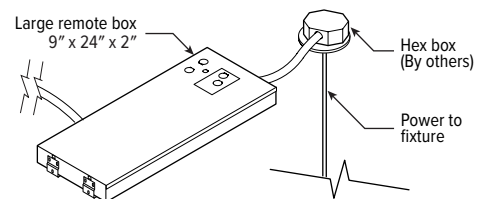
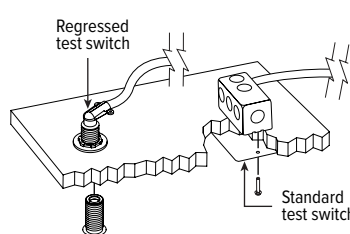
Regressed test switch
ø1-3/4"

EM/10WRM | EM/12WRM

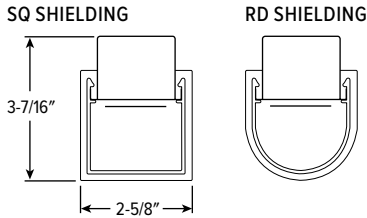


Standard test switch
2-3/4" x 4-1/2"

Max remote distance is 50' including suspension length, connection by others.



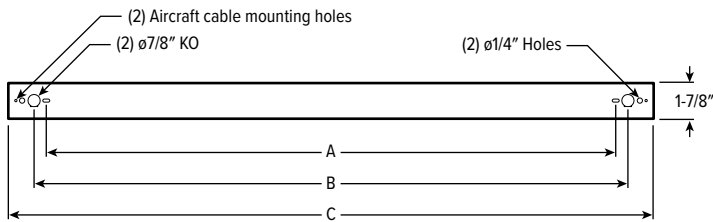
CROSS SECTIONS



FIXTURE DETAILS

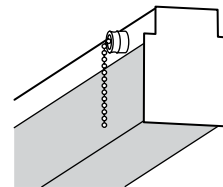
See hew.com/power-entry for power entry details.

BACKVIEW

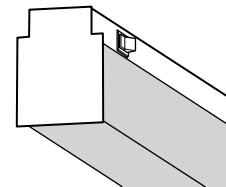


	SURFACE MOUNT (A)	7/8" KOs (B)	ACTUAL LENGTH (C)
2'	19-1/16"	20-1/2"	24-1/4"
4'	41-3/16"	42-5/8"	46-3/8"
6'	63-7/8"	65-3/8"	69-1/16"
8'	87-5/16"	89-1/16"	92-13/16"

PS/120 OPTION

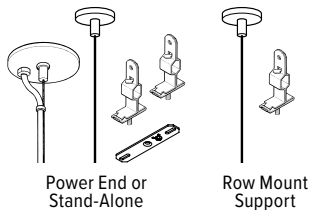


WRS/120 OPTION



MOUNTING DETAILS

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Notes:

- 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.

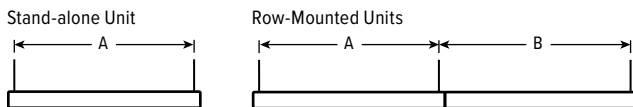
CORD FOR SUSPENDED PRODUCT

The linear builder uses the mounting length and driver type to auto-select the necessary cord. See details below. Long fixture rows may require multiple feed points based on 18ga conductor size.

EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND.	WIRE SIZE	COLOR
S	24 24"	3	8D 18ga	/W White /B Black
	48 48"	4		
	5 96"	5 ⁽¹⁾		
	6 96"	6 ⁽¹⁾		

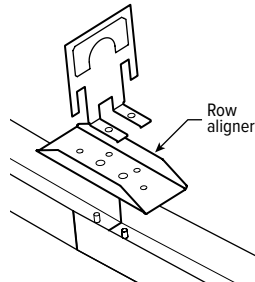
¹ Includes (2) 22ga purple & pink dimming conductors

CENTER-TO-CENTER SUSPENDED MOUNTING CABLE

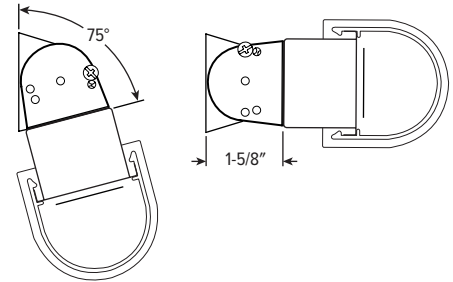


CABLE MOUNT		
	A	B
2'	22-1/4"	24-1/4"
4'	44-3/8"	46-3/8"
6'	67-1/16"	69-1/16"
8'	90-13/16"	92-3/4"

ROW ALIGNER



45AMB



FINISH OPTIONS

WHITE

BLACK

BRONZE

NICKEL

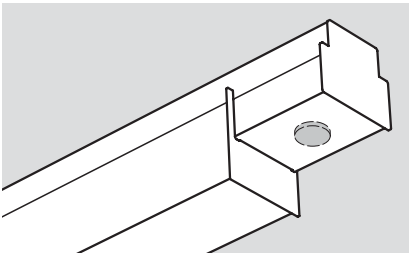
SILVER

ALUM

RAL#

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

SENSOR & NODE PLACEMENT DETAILS



ADDITIONAL DRIVER OPTIONS

Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV ^[1]	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls dimming and (1) 0-10V signal controls CCT)
DIM1	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE ^[1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC ^[1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
SD40 ^[1]	40% step-dimming driver
SD50 ^[1]	50% step-dimming driver
LDE1 ^[1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
PoE PR	Power over Ethernet-ready, fixture powered and controlled by remote UL- or CSA-listed PoE driver

¹ Single CCT only.

TUNABLE WHITE DRIVER DETAILS

