

CATALOG #: _____

TYPE: _____

PROJECT: _____

FEATURES

- Create scalable, highly functioning smart buildings with Platformatics Power over Ethernet controls
- 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 boards. L70 >60,000 hours per IES TM-21. Low-voltage DC fixture, to be fed by Class 2 power supply. 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

SYSTEM REQUIREMENTS

- PoE-ready luminaires are connected to building power systems through network integration and require other components for complete PoE lighting system
- For additional PoE info, see hew.com/poe
- Consult factory for design support



ORDERING EXAMPLE: LLM - 4 - P9/835 - S - SQ - ACF/D48 - OPTIONS - POE PR

ORDERING INFO

SERIES	NOMINAL LENGTH	LUMENS ^[1]	CRI	CCT
LLM	Stand-alone: 2', 4' & 8' nominal lengths, fixture ships assembled. Example: 4 = 4'	P9 900lm	8 80	27 2700K
	Row-mount: Lengths specified in 4' increments Example: 12 = 12'		9 90 ^[2]	30 3000K
				35 3500K
				40 4000K
				50 5000K
	Product Builder Simplify ordering & layout design with the Williams Linear Product Builder at hew.com			TW Tunable white (80 CRI, 3000K-5000K)

MOUNTING TYPE	SHIELDING	MOUNTING
S Surface	RD Round frosted acrylic	AIRCRAFT CABLES (EXAMPLE: ACF/D48) ^[3]
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 ^[4]

45AMB (2) 45° adjustable mounting brackets ^[6]

CONTROL ^[5]

POE PR Power over Ethernet, Platformatics-ready

NOTES

- ¹ Lumen output based on 3500K for single CCT and 4000K for TW. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- ² Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
- ³ Specify with P Mounting Type only. See page 3 for SUSPENDED MOUNTING DETAILS.
- ⁴ See page 3 for FINISH OPTIONS.
- ⁵ See page 4 for NODE CONNECTION DETAILS. For additional PoE info, see hew.com/poe.
- ⁶ Cord recommended, ordered separately. Field-adjustable up and down in 7-1/2° increments.



FIXTURE PERFORMANCE DATA

STANDARD

PER FOOT				
DELIVERED LUMENS		WATTAGE	EFFICACY (lm/W)	
ROUND LENS	SQUARE LENS		ROUND LENS	SQUARE LENS
885	903	6.1	145.1	148.0

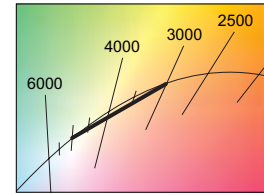
TUNABLE WHITE

PER FOOT				
DELIVERED LUMENS		WATTAGE	EFFICACY (lm/W)	
ROUND LENS	SQUARE LENS		ROUND LENS	SQUARE LENS
892	911	6.0	149.9	153.1

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Standard results based on 3500K standard, 80 CRI, actual lumens may vary +/-5%
- Tunable white results based on 4000K standard, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

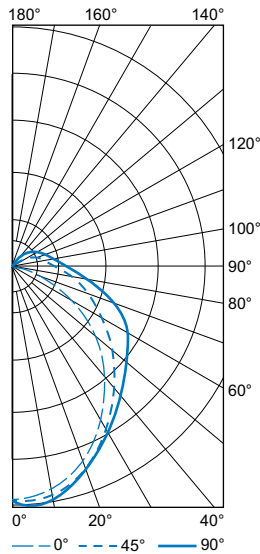
MULTIPLIER TABLE

	COLOR TEMPERATURE		
	CCT	LUMENS	
		STANDARD	TUNABLE WHITE
80 CRI	2700K	0.97	-
	3000K	0.99	0.95
	3500K	1.00	0.98
	4000K	1.03	1.00
	5000K	1.06	0.96
90 CRI	2700K	0.80	-
	3000K	0.82	-
	3500K	0.83	-
	4000K	0.86	-
	5000K	0.89	-



PHOTOMETRY

LLM-4-P9/835-S-SQ Total Luminaire Output: 3495 lumens; 23.6 Watts | Efficacy: 148 lm/W | 80 CRI; 3500K CCT

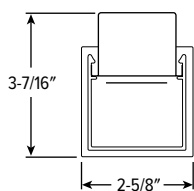


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1066	1066	1066	
5	1070	1076	1078	102
15	987	1004	1009	284
25	853	884	896	407
35	688	747	788	463
45	493	602	694	463
55	324	480	609	427
65	195	381	521	368
75	93	280	395	284
85	27	204	294	200
90	4	154	223	
95	0	147	207	138
105	0	119	160	109
115	0	98	132	84
125	0	81	112	64
135	0	65	92	45
145	0	57	81	32
155	0	43	57	17
165	0	32	37	7
175	0	11	21	1
180	0	0	0	

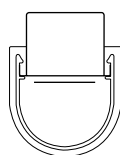
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	792	23
	0 - 40	1256	36
	0 - 60	2146	61
	0 - 90	2998	86
	90 - 180	497	14
	0 - 180	3495	100

CROSS SECTIONS

SQ SHIELDING

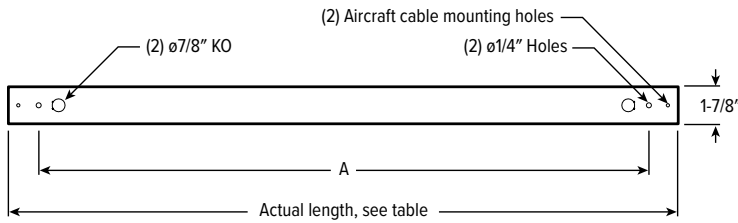


RD SHIELDING



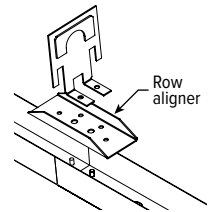
FIXTURE DETAILS

BACKVIEW



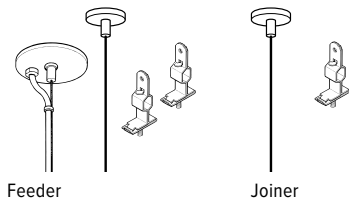
NOMINAL LENGTH	ACTUAL LENGTH	A
2'	24-5/16"	23-5/16"
4'	46-7/16"	45-7/16"
8'	92-15/16"	91-15/16"

ROW ALIGNER DETAIL



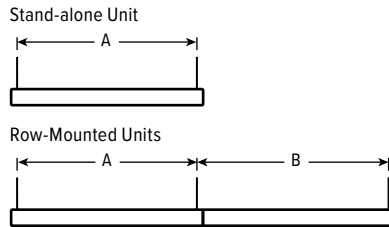
SUSPENDED MOUNTING DETAILS

STANDARD HARDWARE (Grid and Hardpan)



- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into each fixture, either as part of a row or as a stand-alone unit. One power drop per node required. Joiner fixtures complete the row.

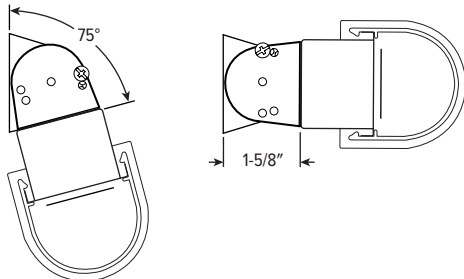
CENTER-TO-CENTER MOUNTING CABLE DETAIL



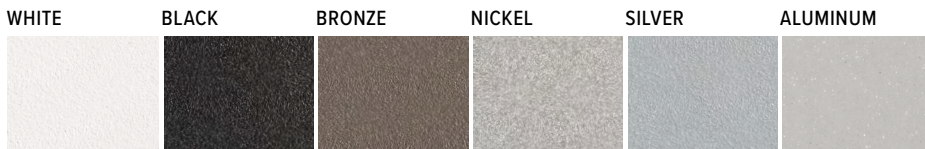
	CABLE MOUNT	
	A	B
2'	23-1/4"	24-1/4"
4'	45-3/8"	46-3/8"
8'	91-3/4"	92-3/4"

OPTIONS DETAILS (surface mount only)

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.



NODE CONNECTION DETAILS

Includes 24" cable with 4-position mating connector for Platformatics POE-LN2 node. See node spec sheet for details: platformatics.com/product/poe-ln2

