

CATALOG #:
TYPE:
DDO ISOT
PROJECT:



FEATURES

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls
- Slim, low-profile suspended or surface mount fixture provides an architectural alternative to standard wrap-around
- 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 phosphatefree, 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. 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

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

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

ORDERING INFO

LUMENS [2] SERIES NOMINAL LENGTH [1] CRI CCT LLM Stand-alone: 2', 4', 6' & 8' nominal lengths, **P9** 900lm 8 80 27 2700K fixture ships assembled. **9** 90 ^[3] 3000K 30 Example: $\dot{\mathbf{4}} = \mathbf{4}'$ 3500K 35 Row-mount: Lengths specified in 24" 40 4000K increments Example: **12** = 12' 5000K Tunable white (3000K–5000K) TW **Product Builder** Simplify ordering & layout design with the Williams Linear Product Builder at hew.com TW2 Tunable white (2700K-6500K)

MOUNTING TYPE	SHIELDING	MOUNTING			
S Surface	RD Round frosted acrylic	AIRCRAFT CABLES (EXAMPLE: ACF/D48) [4]			
P Suspended	SQ Square frosted acrylic	Prefix	Туре	Length	
		ACF/ Feeder	D 1" grid & hardpan	24 24"	
		ACJ/ Joiner	N 9/16" grid	48 48"	
			S Slot arid	96 96"	

OPTIONS [5] CONTROL [6]

45AMB (2) 45° adjustable mounting brackets ^[7] POE PR Power over Ethernet-ready

NOTES

- 8' length ships with (2) 4' lenses. Lumens per foot output based on 3500K for single CCT and 4000K for TW. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- 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.
- For additional PoE connection details, consult factory. Cord recommended, ships separately. Field-adjustable up and down in 7-1/2° increments.



FIXTURE PERFORMANCE DATA

STANDARD

		PER FOOT			LUMEN MA	NITENANCE		
DELIVERED LUMENS		WATTACE	EFFICACY (Im/W)		1.70	100	105	100
ROUND LENS	SQUARE LENS	WATTAGE	ROUND LENS	SQUARE LENS	L70	L80	L85	L90
866	884	5.8	149	152	>72000	>72000	>72000	50000

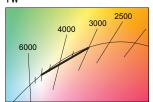
TUNABLE WHITE

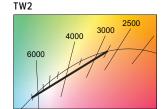
		PER FOOT			LUMEN MA	NITENANCE		
DELIVERED LUMENS		WATTACE	EFFICACY (Im/W)		170	100	105	100
ROUND LENS	NS SQUARE LENS WATTAGE ROUND LENS SO		SQUARE LENS	L70	L80	L85	L90	
870	888	6.6	132	135	>54000	>37000	>26000	>16000

- 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.

TW





MULTIPLIER TABLE

5000K

6500K

COLOR TEMPERATURE							
CCT	STANDARD	TW	TW2				
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				
27001/	0.00		0.93				
	0.80						
3000K	0.82	0.91	0.95				
3500K	0.83	0.96	0.98				
4000K	0.86	1.00	1.00				
	2700K 3000K 3500K 4000K 5000K 6500K 2700K 3000K 3500K	CCT STANDARD 2700K 0.97 3000K 0.99 3500K 1.00 4000K 1.03 5000K 1.06 6500K - 2700K 0.80 3000K 0.82 3500K 0.83	CCT STANDARD TW 2700K 0.97 - 3000K 0.99 0.95 3500K 1.00 0.98 4000K 1.03 1.00 5000K 1.06 0.96 6500K - - 2700K 0.80 - 3000K 0.82 0.91 3500K 0.83 0.96				

0.89

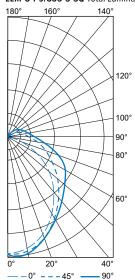
1.03

1.02

1.03

PHOTOMETRY

LLM-8-P9/835-S-SQ Total Luminaire Output: 6995 lumens; 42.2 Watts | Efficacy: 166 lm/W | 80 CRI; 3500K CCT

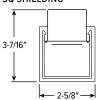


					·
	VERTICAL ANGLE	НО	ZONAL LUMENS		
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
	0	2134	2134	2134	
	5	2142	2153	2158	203
	15	1976	2009	2019	568
	25	1707	1768	1794	815
	35	1377	1496	1578	927
<u>S</u>	45	986	1206	1389	928
DISTRIBUTION	55	648	961	1220	855
	65	391	763	1043	738
S	75	187	561	791	569
	85	55	408	588	399
8	90	9	309	446	
CANDLEPOWER	95	0	295	413	276
豆	105	0	238	321	217
2	115	0	196	264	168
	125	0	161	225	128
	135	0	130	184	91
	145	0	115	161	63
	155	0	86	113	35
	165	0	63	74	15
	175	0	22	43	2
	180	0	0	0	

≽	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 30	1586	23
≥	0 - 40	2513	36
S	0 - 60	4295	61
▮≝	0 - 90	6001	86
=	90 - 180	994	14
	0 - 180	6995	100

CROSS SECTIONS

SQ SHIELDING





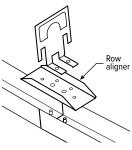


FIXTURE DETAILS

BACKVIEW (2) Aircraft cable mounting holes (2) ø7/8" KO (2) ø1/4" Holes -1-7/8"

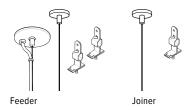
	SURFACE MOUNT (A)	7/8" KOs (B)	ACTUAL LENGTH (C)
2′	19-1/16"	20-1/2"	24-1/4"
4′	41-3/16"	42-5/8"	46-3/8"
6′	63-7/8"	65-3/8"	69-1/16"
8′	87-5/16"	89-1/16"	92-13/16"

ROW ALIGNER DETAIL



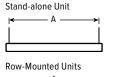
SUSPENDED MOUNTING DETAILS

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

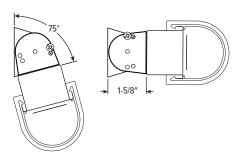




	CABLE MOUNT						
	A B						
2′	22-1/4"	24-1/4"					
4′	44-3/8"	46-3/8"					
6'	67-1/16"	69-1/16"					
8′	90-13/16"	92-3/4"					

OPTIONS DETAILS (surface mount only)

45AMB



FINISH OPTIONS

WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM	For custom color
						RAL code or a ma with description. other than RAL re swatches, minim

or, please specify nanufacturer code n. All custom colors require two sample mum 1″ square.