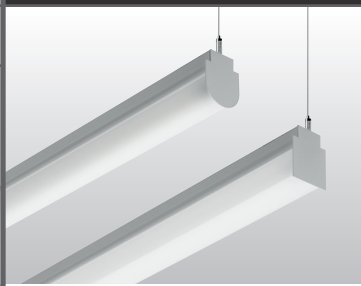


ARCHITECTURAL SLIMLINE SUSPENDED

LLM

tunable **WHITE** | PoE



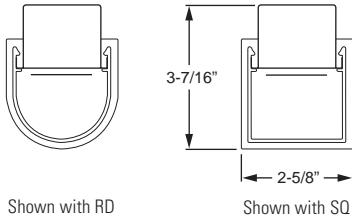
CATALOG #: _____ TYPE: _____

PROJECT: _____ NOTES: _____

EXAMPLE → **LLM - 4 - P31/835 - S - SQ - AC/D48 - OPTIONS - POE N**

SERIES NOMINAL LENGTH LUMEN PACKAGE CRI & CCT FIXTURE TYPE SHIELDING MOUNTING OPTIONS/ACCESSORIES CONTROL

CROSS SECTION



ORDERING INFORMATION

SERIES
LLM Architectural Slimline Suspended – PoE

NOMINAL LENGTH

2	2'
4	4'
8	8'

LED PACKAGE

	EXAMPLE: P31/835		WATTAGE
	LUMEN PACKAGE	NOMINAL LUMENS	
2'	P21	2,100	16
4'	P21	2,100	16
	P31	3,100	25
8'	P33	3,300	24
	P65	6,500	50

Nominal lumen output based on 3500K for single CCT and 4000K for TW. Actual lumens may vary +/-5%, see fixture performance data.

CRI & CCT

827	82 CRI, 2700K
830	82 CRI, 3000K
835	82 CRI, 3500K
840	82 CRI, 4000K
850	82 CRI, 5000K
8TW	Tunable white (80 CRI, 3000K–5000K)

FIXTURE TYPE

F	Feeder unit, straight white cord standard, one end plate installed
J	Joiner unit, straight white cord standard, no end plates
E	End unit, straight white cord standard, one end plate installed
S	Stand-alone unit, straight white cord standard, two end plates installed

SHIELDING

RD Round frosted acrylic
SQ Square frosted acrylic

MOUNTING
 See page 3 for details.

EXAMPLE: AC/D48		
MOUNTING	TYPE	LENGTH
AC/ = Aircraft	D = 1' grid & hardpan	24 = 24"
	N = 9/16" grid	48 = 48"
	S = Slot grid	96 = 96"

OPTIONS
 For color options, visit the LLM online at hew.com.
EM/CP12 Remote mount 12-watt Iota emergency LED battery (requires one additional category cable run to switch, see page 3 for details.)

ACCESSORIES
 See hew.com/poe for compatible sensors & switches

CONTROL
 For additional PoE info, see hew.com/poe
 Node requires remote mounting, see page 3 for details.
POE N Power over Ethernet network node
POE D Power over Ethernet device node (not available for fixtures over 40W)

FEATURES

- ▶ Williams turn-key Power over Ethernet (PoE) solution provides plug-and-play networked lighting and control.
- ▶ Tunable white from 3000K to 5000K CCT, minimum 80 CRI.
- ▶ Efficacies up to 142 lm/W.
- ▶ Slim, low-profile, suspended LED 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.
- ▶ This fixture is proudly made in the USA.

SYSTEM REQUIREMENTS

- Lighting system (site software)
- Gateway or alternate server (runs software)
- PoE switches or Ethernet switches and mid-span power injectors
- See hew.com/poe for details



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 > 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 – Suspended. 1/16" diameter adjustable steel aircraft cable and mounting hardware necessary for grid ceiling applications provided.
Labels – cCSAus certified as luminaire suitable for dry or damp locations.
Warranty – 5-year limited warranty, see hew.com/warranty.

IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.

FIXTURE PERFORMANCE DATA

STANDARD

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2'			
P21	2119	16.0	132.4
4'			
P21	2143	16.0	133.9
P31	3144	25.0	125.8
8'			
P33	3325	24.0	138.5
P65	6530	50.0	130.6

TUNABLE WHITE

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2'			
P21	2109	17.3	122.0
4'			
P21	2116	16.3	129.7
P31	3134	25.1	124.9
8'			
P33	3302	25.1	131.6
P65	6532	50.2	130.2

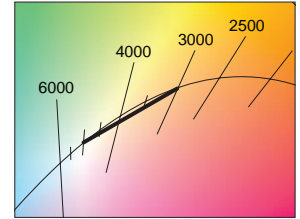
MULTIPLIER TABLES

STANDARD

CCT	CONVERSION FACTOR
2700K	0.97
3000K	0.99
3500K	1.00
4000K	1.03
5000K	1.06

TUNABLE WHITE

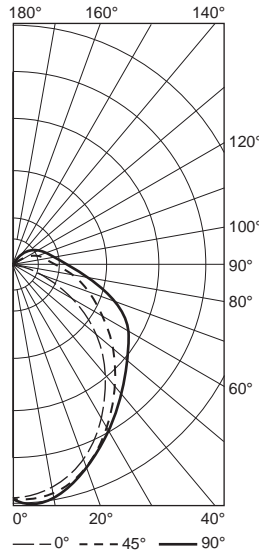
CCT	CONVERSION FACTOR
3000K	0.95
3500K	0.98
4000K	1.00
5000K	0.96



- 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.

PHOTOMETRY

LLM-4-P31/835-S-SQ Total Luminaire Output: 3144 lumens; 25 Watts | Efficacy: 126 lm/W | 83.1 CRI; 3500K CCT

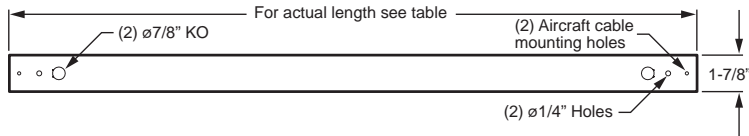


Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	959	959	959	
5	963	968	970	91
15	888	903	907	255
25	767	795	806	366
35	619	672	709	417
45	443	542	624	417
55	291	432	548	384
65	176	343	469	331
75	84	252	355	256
85	25	183	264	180
90	4	139	200	
95	0	133	186	124
105	0	107	144	98
115	0	88	119	75
125	0	72	101	57
135	0	59	82	41
145	0	52	72	28
155	0	39	51	16
165	0	29	33	7
175	0	10	19	1
180	0	0	0	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	713	23
0 - 40	1130	36	
0 - 60	1931	61	
0 - 90	2697	86	
0 - 180	3144	100	

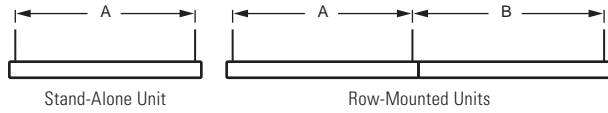
FIXTURE DETAILS

BACK VIEW



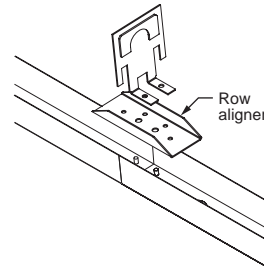
NOMINAL LENGTH	ACTUAL LENGTH
2'	24-5/16"
4'	46-7/16"
8'	92-15/16"

MOUNTING INFORMATION (center to center mounting cable)

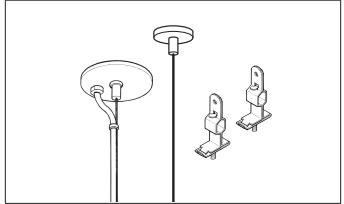


NOMINAL UNIT LENGTH	CABLE MOUNT	
	A	B
2'	23-1/4"	24 1/4"
4'	45-3/8"	46 3/8"
8'	91-3/4"	92 3/4"

ROW ALIGNER DETAIL



STANDARD HARDWARE (grid ceiling applications)



Notes:

- 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.

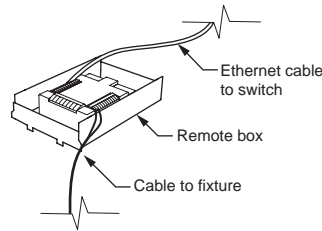
REMOTE MOUNT DETAILS

Includes 2' plenum-rated 18ga. solid cable. Remote box can be installed in:

- Above ceiling grid
- Remote closet (within 100ft)
- Surface below ceiling

See [Technical Info](#) for dimension details.

NODE



NODE AND EM OPTION

