

# 2" SUSPENDED ARCHITECTURAL

# AX2

tunable **WHITE** | PoE



AX2D shown

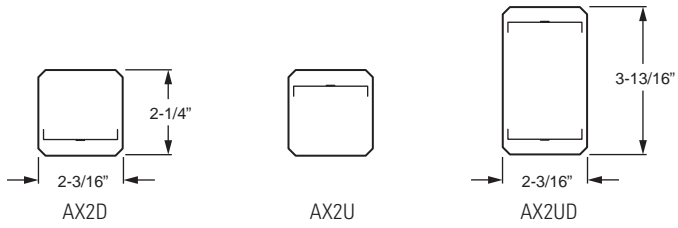
CATALOG #: \_\_\_\_\_ TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_ NOTES: \_\_\_\_\_

**EXAMPLE** **AX2 U - 4 - P23/835 - S - AC/D48 - OPTIONS - POE N**

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

## CROSS SECTIONS



## ORDERING INFORMATION

**SERIES**  
**AX2** 2" Suspended Architectural – PoE

**DISTRIBUTION**  
**U** Uplight  
**D** Downlight  
**UD** Up and Downlight

**NOMINAL LENGTH**  
**2** 2' (Uplight or Downlight only)  
**4** 4'  
**8** 8'

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

**UPLIGHT OR DOWNLIGHT ONLY**

EXAMPLE: P23/835			
	LUMEN PACKAGE	NOMINAL LUMENS	WATTAGE
2'	P14	4,500	14
4'	P23	2,300	23
8'	P47	4,700	45

**UP & DOWNLIGHT ONLY**  
 Total system wattage shown.  
 Specify lumen packages: **U** for Uplight and **D** for Downlight.

EXAMPLE: P23U/P23D/835				
	LUMEN PACKAGE	NOMINAL LUMENS	U or D	WATTAGE
4'	P23	2,300	U or D	23
8'	P47	4,700		45

**CRI & CCT**  
**830** 82 CRI, 3000K  
**835** 82 CRI, 3500K  
**840** 82 CRI, 4000K  
**8TW** Tunable white (80 CRI, 3000K–5000K)

**FIXTURE TYPE**  
**F** Feeder unit, straight white cord standard, two end plates, field installed.  
**J** Joiner unit, straight white cord standard, no end plates  
**S** Stand-alone unit, straight white cord standard, two end plates installed

**MOUNTING**  
 See page 2 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 AX2 online at [hew.com](http://hew.com).  
**EM/CP12** Remote mount 12-watt Iota emergency LED battery (requires one additional category cable run to switch, see page 2 for details.)

**ACCESSORIES**  
 See [hew.com/poe](http://hew.com/poe) for compatible sensors & switches

**CONTROL**  
 For additional PoE info, see [hew.com/poe](http://hew.com/poe).  
 Node requires remote mounting, see page 2 for details.  
 AX2UD allows for independent up and down switching.  
**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 106 lm/W
- ▶ Available in six finish colors; matte, smooth aluminum standard.
- ▶ Sleek, linear design incorporates clean lines and slim styling
- ▶ Slightly wrapped lens creates glowing edge and smooth illumination
- ▶ Attractive source of direct or indirect lighting for use in offices, hallways, conference rooms and medical facilities
- ▶ Frosted acrylic lens
- ▶ 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](http://hew.com/poe) for details

### SPECIFICATIONS

**Housing** – Extruded aluminum.  
**Shielding** – Frosted acrylic lens.  
**Finish** – Matte, smooth silver sparkle standard. All other colors default to textured finish. Polyester 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.

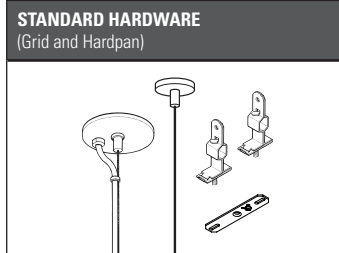
**Mounting** – Suspended. 1/16" diameter adjustable steel leveling aircraft cable and mounting hardware necessary for grid ceiling applications provided.

**Labels** – cCSAus certified as luminaire suitable for dry or damp locations.

**Warranty** – 5-year limited warranty, see [www.hew.com/warranty](http://www.hew.com/warranty).

### IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.



#### 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.

### FIXTURE PERFORMANCE DATA

#### UP OR DOWNLIGHT STANDARD

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2'			
P14	1405	14	98.5
4'			
P23	2304	22.96	100.3
8'			
P47	4734	44.6	106.1

#### TUNABLE WHITE

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2'			
P14	1413	16	89.0
4'			
P23	2302	25.55	90.1
8'			
P47	4717	50.17	94.0

#### UP & DOWNLIGHT STANDARD<sup>1</sup>

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
4'			
P23	2304	22.96	100.3
8'			
P47 <sup>2</sup>	4734	44.6	106.1

#### TUNABLE WHITE<sup>1</sup>

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
4'			
P23	2302	25.55	90.1
8'			
P47 <sup>2</sup>	4717	50.17	94.0

<sup>1</sup> Performance is the same for up and downlight.

<sup>2</sup> Fixture contains two nodes; one power drop per node required.

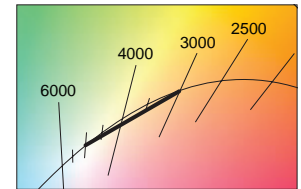
### MULTIPLIER TABLES

#### STANDARD

CCT	CONVERSION FACTOR
3000K	0.99
3500K	1.00
4000K	1.03

#### TUNABLE WHITE

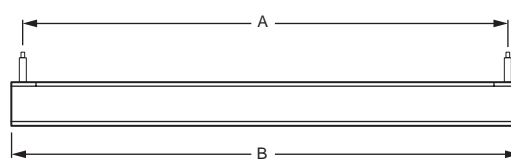
CCT	CONVERSION FACTOR
3000K	0.95
3500K	0.98
4000K	1.00
5000K	0.96



- 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.

### FIXTURE DETAILS

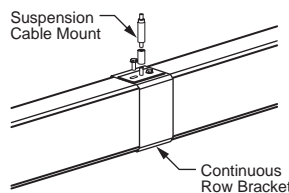
#### SIDE VIEW



NOMINAL LENGTH	MOUNTING LENGTH (A)	ACTUAL LENGTH (B)
2'	24-5/8"	25-7/8"
4'	46-13/16"	48-1/16"
8'	89-7/8"	91-1/8"

#### CONTINUOUS ROW FIXTURES

When row mounting fixtures, joint between fixtures will be visible at 4' or 8' intervals depending on fixture length.



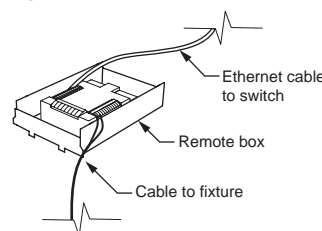
### REMOTE MOUNT DETAILS

#### NODE

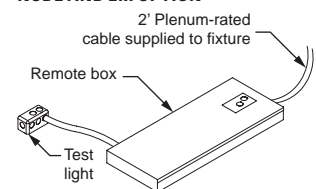
Includes 2' plenum-rated 18ga. solid cable. Remote box can be installed in:

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

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

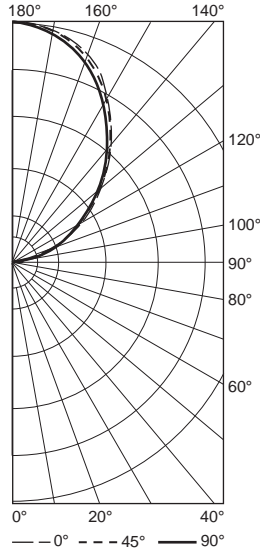


#### NODE AND EM OPTION



## PHOTOMETRY

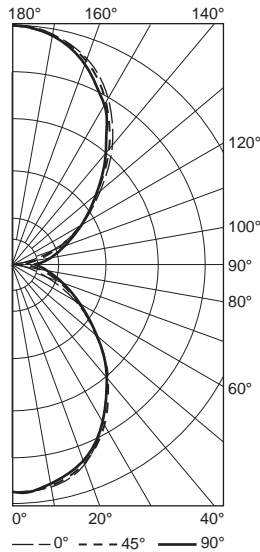
**AX2U-4-P23/835-S** Total Luminaire Output: 2304 lumens; 23 Watts  
 Efficacy: 100 lm/W | 84 CRI; 3483K CCT | IES Spacing Criteria: End: 1.2, Across: 1.2, Diagonal: 1.2



Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	0	0	0	
5	0	0	0	0
15	0	0	0	0
25	0	0	0	0
35	0	0	0	0
45	0	0	8	2
55	0	6	13	6
65	0	9	20	10
75	0	14	28	15
85	1	18	33	21
90	6	26	45	
95	28	48	69	57
105	119	127	145	140
115	235	233	237	237
125	371	364	349	328
135	514	501	486	391
145	657	651	629	407
155	796	783	767	360
165	877	871	856	245
175	917	917	913	87
180	924	924	924	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	0	0
	0 - 40	0	0
	0 - 60	8	0
	0 - 90	53	2
	90 - 120	433	19
	90 - 150	1559	68
	90 - 180	2251	98
	0 - 180	2304	100

**AX2UD-4-P23U/P23D/835-S** Total Luminaire Output: 4608 lumens; 46 Watts  
 Efficacy: 100 lm/W | 84 CRI; 3478K CCT | IES Spacing Criteria: End: 1.2, Across: 1.2, Diagonal: 1.2



Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	904	904	904	
5	917	897	891	85
15	876	867	858	244
25	789	778	771	359
35	652	654	643	407
45	497	501	495	387
55	341	361	357	320
65	201	234	246	231
75	87	133	161	141
85	21	65	101	73
90	4	45	84	
95	30	79	123	85
105	123	150	181	161
115	241	250	262	251
125	385	372	377	337
135	534	515	501	400
145	686	666	653	418
155	811	798	780	368
165	900	895	886	252
175	942	945	936	89
180	946	946	946	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	688	15
	0 - 40	1095	24
	0 - 60	1802	39
	0 - 90	2246	49
	90 - 120	497	11
	90 - 150	1653	36
	90 - 180	2362	51
	0 - 180	4608	100

