

ARCHITECTURAL MULTI-FUNCTION MEDICAL

AMD

tunable **WHITE** | PoE



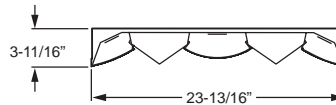
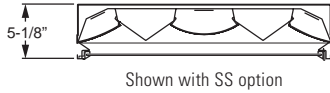
AMD4AERN Shown

CATALOG #:	TYPE:
PROJECT:	NOTES:

EXAMPLE → **AMD 4AERN G - P43/840 - A - OPTIONS - POE N**

SERIES STYLE CEILING TYPE LUMEN PACKAGE CRI & CCT SHIELDING OPTIONS/ACCESSORIES CONTROL

CROSS SECTIONS



ORDERING INFORMATION

SERIES
AMD Architectural Medical – PoE

STYLE
 See table below for style options.

CEILING TYPE
G NEMA Type "G"
 For flange installations use the Drywall Kit (DFK), ordered separately, see [Technical Info](#).

LED PACKAGE
 Specified for ambient compartment only. See table below for lumen packages.

CRI & CCT	
827	82 CRI, 2700K
830	82 CRI, 3000K
835	82 CRI, 3500K
840	82 CRI, 4000K
850	82 CRI, 5000K
940	90 CRI, 4000K
950	90 CRI, 5000K
8TW	Tunable white (80 CRI, 3000K–5000K) for Ambient and Reading only. (Exam and Nurse compartments 840, additional color temperatures available, see options).

SHIELDING
A Frosted, ribbed acrylic diffusers

OPTIONS

EM/CP12 Remote mount 12-watt lota emergency LED battery, controls ambient compartment only (requires one additional category cable run to switch, see page 3 for details)

BC Fixture prewired for bedside controls, button functionality determined with gateway software.

EQCLIPS Earthquake clips (4 per fixture)

SS Sani-shield acrylic cover with double gasket (increases fixture depth)¹

(8___) Color temperature in Exam (E) or Nurse (N) light compartments different than Ambient and Reading. Must specify color temperature (30, 35 or 50) and compartment.
Example: AMD4AERNG-P43/840-A-(835E)

AN Amber nurse light

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

CONTROL
 For additional PoE info, see hew.com/poe
POE N Power over Ethernet network node
POE D Power over Ethernet device node

FEATURES

- ▶ Williams turn-key Power over Ethernet (PoE) solution provides plug-and-play networked lighting and control.
- ▶ Ambient and reading compartments tunable white from 3000K to 5000K CCT, minimum 80 CRI.
- ▶ Efficacies up to 135 lm/W.
- ▶ Attractive, efficient, multi-purpose fixture delivers comfortable, uniform illumination.
- ▶ Eight configurations provide ambient, exam, reading and nurse light for healthcare applications.
- ▶ Available in 2x4 or split 2x2 configurations for ultimate flexibility
- ▶ Various LED combinations result in pleasing, energy-efficient ambient illumination and necessary light levels for exam purposes.
- ▶ Anti-microbial white finish standard.
- ▶ Fixture to grid gasketing standard.
- ▶ Double-gasketed sani-shield option protects fixture from dust, bugs and other contaminants while simplifying maintenance and cleaning.
- ▶ 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

CONFIGURATIONS

STYLE	CONFIGURATION (see back for details)	AMBIENT NOM. LUMENS	EXAM LUMENS	READING LUMENS	NURSE LUMENS	WIRING COMP.	WATTAGE
2AE		P31/ = 3,100	3,500	-	-	-	50
		P43/ = 4,300					-
2ARW		P31/ = 3,100	-	1,700	-	✓	36
		P43/ = 4,300					45
2ARN		P31/ = 3,100	-	1,700	800	-	46
		P31/ = 3,100					46
4AE		P31/ = 3,100	7,300	-	-	-	76
		P43/ = 4,300					86
4AERW		P31/ = 3,100	7,300	1,700	-	✓	91
		P43/ = 4,300					101
4AERN		P31/ = 3,100	7,300	1,700	800	-	101
		P43/ = 4,300					111
2AE+2ERW		P31/ = 3,100	7,300	1,700	-	✓	91
		P43/ = 4,300					101
2AE+2ERN		P31/ = 3,100	7,300	1,700	800	-	101
		P43/ = 4,300					111

¹ Reduces lumen output by 10%

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



SPECIFICATIONS

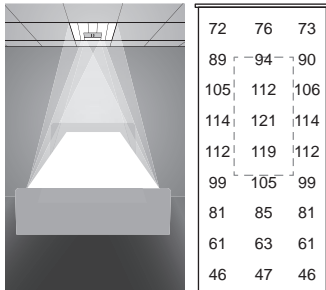
Housing – .040" formed aluminum.
Shielding – Frosted, ribbed acrylic diffusers.
Finish – Highly-reflective non-glare matte white anti-microbial powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
Electrical – High quality mid-power LED board. L70 > 50,000 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 – NEMA Type "G" standard. For flange installations use the Drywall Kit (DFK), see [Technical Info](#).
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.

FOOTCANDLE ESTIMATOR & DISTRIBUTION

4AERN STYLE – All lights on



FIXTURE PERFORMANCE DATA

STANDARD

STYLE	LUMENS	DELIVERED LUMENS				TOTAL WATTS
		AMB	EXAM	READ	NURSE	
2AE	P31	3140	3500	–	–	50.4
2ARW	P31	3129	–	1736	–	36.3
	P43	4350	–	1736	–	44.8
2ARN	P31	3129	–	1736	840	46.1
	P31	3129	–	1736	840	46.1
4AE	P31 ¹	3140	7330	–	–	76.4
	P43 ¹	4312	7330	–	–	86.4
4AERW	P31 ¹	3140	7330	1736	–	90.7
	P43 ¹	4312	7330	1736	–	100.7
4AERN	P31 ¹	3140	7330	1736	840	100.5
	P43 ²	4312	7330	1736	840	110.5
2AE+	P31 ¹	3140	7330	1736	–	90.7
2ERW	P43 ¹	4312	7330	1736	–	100.7
2AE+	P31 ¹	3140	7330	1736	840	100.5
	P43 ²	4312	7330	1736	840	110.5

TUNABLE WHITE

STYLE	LUMENS	DELIVERED LUMENS				TOTAL WATTS
		AMB	EXAM	READ	NURSE	
2AE	P31	2902	3500	–	–	50.6
2ARW	P31	3100	–	1607	–	39.4
	P43	4321	–	1607	–	49.4
2ARN	P31	3100	–	1607	840	49.2
	P31	3100	–	1607	840	49.2
4AE	P31 ¹	2902	7330	–	–	76.5
	P43 ¹	3997	7330	–	–	86.2
4AERW	P31 ¹	2902	7330	1607	–	90.8
	P43 ¹	3997	7330	1607	–	100.5
4AERN	P31 ¹	2902	7330	1607	840	100.6
	P43 ²	3997	7330	1607	840	110.3
2AE+	P31 ¹	2902	7330	1607	–	90.8
2ERW	P43 ¹	3997	7330	1607	–	100.5
2AE+	P31 ¹	2902	7330	1607	840	100.6
	P43 ²	3997	7330	1607	840	110.3

¹ Fixture contains two nodes, one power drop per node required.
² Fixture contains three nodes, one power drop per node required.

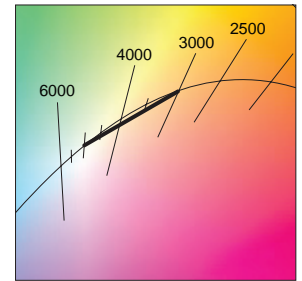
MULTIPLIER TABLES

STANDARD

	CCT	CONVERSION FACTOR
80 CRI	2700K	0.94
	3000K	0.96
	3500K	0.97
	4000K	1.00
	5000K	1.03
90 CRI	4000K	0.83
	5000K	0.87

TUNABLE WHITE

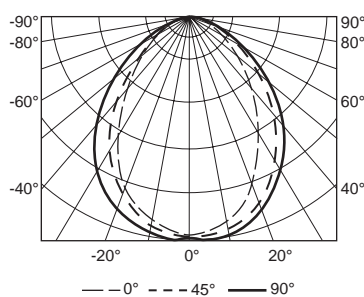
	CCT	CONVERSION FACTOR
80 CRI	3000K	0.95
	3500K	0.98
	4000K	1.00
	4000K	1.00
	5000K	0.96



- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Standard results based on 4000K 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

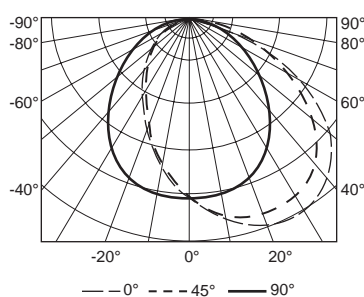
AMD4AEG-P43/840 Ambient Only Total Luminaire Output: 4312 lumens; 32 Watts
 Efficacy: 135 lm/W | 83.6 CRI; 4053K CCT | IES Spacing Criteria: End: 1.3, Across: 1.3



Vertical Angle	Horizontal Angle					Zonal Lumens
	0°	45°	90°	135°	180°	
0	1787	1787	1787	1787	1787	1787
5	1778	1774	1781	1787	1790	169
15	1630	1656	1700	1719	1722	479
25	1425	1477	1549	1566	1546	705
35	1181	1265	1357	1379	1333	819
45	910	1024	1123	1112	1029	807
55	594	716	786	791	689	656
65	350	451	415	509	415	432
75	160	183	149	200	182	198
85	43	39	31	36	37	47
90	0	0	0	0	0	0

LUMEN SUMMARY	Zone	Lumens	% Fixture
0 - 30	1353	31	
0 - 60	2172	50	
0 - 90	4312	100	
0 - 180	4312	100	

AMD4AEG-P43/840 Exam Only Total Luminaire Output: 7330 lumens; 55 Watts
 Efficacy: 133 lm/W | 83.6 CRI; 4053K CCT | IES Spacing Criteria: End: 1.3, Across: 1.3



Vertical Angle	Horizontal Angle					Zonal Lumens
	0°	45°	90°	135°	180°	
0	3146	3146	3146	3146	3146	3146
5	3089	3084	3076	3080	3080	294
15	2924	2893	2858	2885	2916	821
25	2575	2509	2449	2495	2553	1167
35	2201	2149	2093	2138	2173	1337
45	1761	1797	1802	1769	1727	1352
55	1198	1310	1287	1295	1169	1126
65	757	845	712	824	733	767
75	370	347	255	338	354	367
85	106	92	81	86	96	100
90	0	0	0	0	0	0

LUMEN SUMMARY	Zone	Lumens	% Fixture
0 - 30	2282	31	
0 - 60	6096	83	
0 - 90	7330	100	
0 - 180	7330	100	

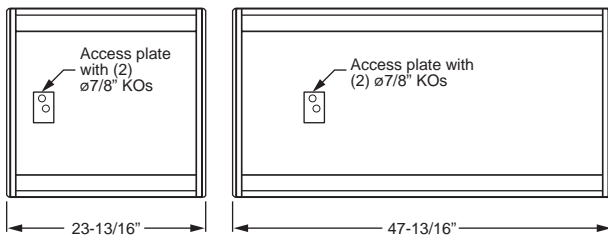
STYLE CONFIGURATION DETAILS

AMBIENT	EXAM	READING	NURSE LIGHT
A Ambient 	E Exam 	R Reading 	N Nurse light ⁴
WIRING COMPARTMENT W Wiring compartment houses electrical equipment and connections in room-side accessible cabinet with tool-less access. ¹ 		MULTIPLE FIXTURE CONFIGURATIONS + Use "+" to indicate multiple fixtures wired together, installed up to 2' apart. ³ 	

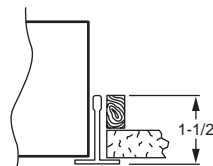
¹ Some fixture configurations do not allow all drivers to be located within the nurse light or wiring compartment. Drivers and electrical connections will be located in primary fixture or wiring compartment (when "W" or "+" is specified) as space allows.

FIXTURE DETAILS

BACK VIEWS

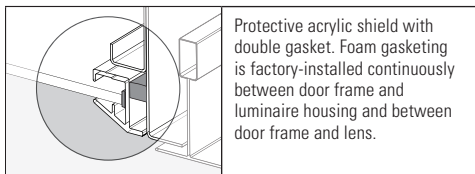


DRYWALL KIT (DFK)

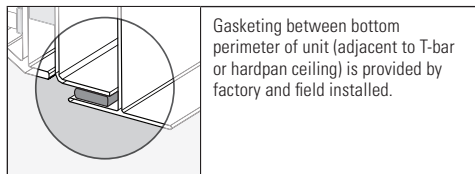


When using the DFK with Williams AMD fixture, the structure surrounding the DFK at each end of fixture is to extend no more than 1-1/2" from the bottom of the "T" as shown.

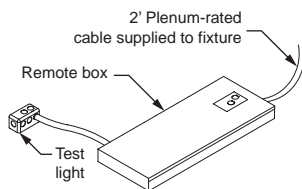
SANI-SHIELD OPTION GASKETING



STANDARD GASKETING



REMOTE MOUNT EM OPTION 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.