

ARCHITECTURAL MULTI-FUNCTION MEDICAL

AMD

LED

CATALOG #:

TYPE:

PROJECT:

NOTES:

EXAMPLE

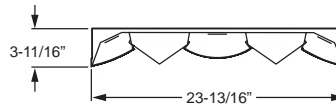
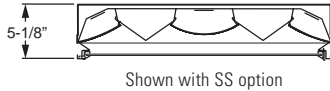
AMD 4AERN G - L44/835 - A - OPTIONS - DRV - UNV

SERIES STYLE CEILING STYLE LUMEN PACKAGE CRI & CCT SHIELDING OPTIONS DRIVER VOLTAGE



AMD4AERN Shown

CROSS SECTIONS



ORDERING INFORMATION

SERIES

AMD Architectural Medical

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 LED packages.

SHIELDING

A Frosted, ribbed acrylic diffusers

OPTIONS

Low-voltage controller options available, see page 2 for details.

EM/10W 10-watt emergency LED driver, ambient compartment only (120V-277V only)

EQCLIPS Earthquake clips (4 per fixture)

GLR Fuse, fast blow (specify voltage), one per driver

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

(8 ___) Color temperature in Exam (E), Reading (R) or Nurse (N) light compartments different than Ambient. Must specify color temperature (30, 35, 40 or 50) and compartment.

Example: AMD4AERNG-L44/835-A-(840E)

AN Amber nurse light

CP Chicago Plenum (CCEA)

DRIVER

DRV Driver prewired for non-dimming applications

VOLTAGE

120 120V

277 277V

UNV 120-277V

347 347V

FEATURES

- ▶ 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.
- ▶ Tool-less, room-side access wiring compartment.
- ▶ Optional low-voltage controller allows for bedside lighting control.
- ▶ 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.

CONFIGURATIONS

STYLE	CONFIGURATION (see back for details)	AMBIENT NOM. LUMENS	CRI/CCT	EXAM LUMENS	READING LUMENS	NURSE LUMENS	WIRING COMP.	AVG. SYS. WATTAGE
2AE		L27/ = 2,700	830 = 80 CRI, 3000K 835 = 80 CRI, 3500K 840 = 80 CRI, 4000K 940 = 90 CRI, 4000K 950 = 90 CRI, 5000K	4,000	-	-	-	65
		L44/ = 4,400		-	-	-	83	
2ARW		L27/ = 2,700		-	1,700	-	✓	48
		L44/ = 4,400		-	-	-	66	
2ARN		L27/ = 2,700		-	1,700	100	-	57
		L44/ = 4,400		-	-	-	75	
4AE		L27/ = 2,700		8,000	-	-	-	101
		L44/ = 4,400		-	-	-	119	
4AERW		L27/ = 2,700		8,000	1,700	-	✓	120
		L44/ = 4,400		-	-	-	138	
4AERN		L27/ = 2,700		8,000	1,700	100	-	129
		L44/ = 4,400		-	-	-	147	
2AE+2ERW		L27/ = 2,700		8,000	1,700	-	✓	120
		L44/ = 4,400		-	-	-	138	
2AE+2ERN		L27/ = 2,700		-	1,700	100	-	129
		L44/ = 4,400		-	-	-	147	

For additional lumen packages or configurations, consult factory.

¹ reduces lumen output by 10%



LED

SPECIFICATIONS

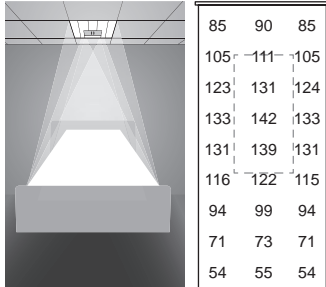
Housing – .040" formed aluminum.
Shielding – Frosted, ribbed acrylic diffusers.
Finish – Highly-reflective non-glare matte white anti-microbial powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
Electrical – High quality mid-power LED boards. L70 at 50,000 hours.
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. City of Chicago Environmental Air approved when specified with CP option.
Warranty – 5-year limited warranty, see hew.com/warranty.

IMPORTANT:

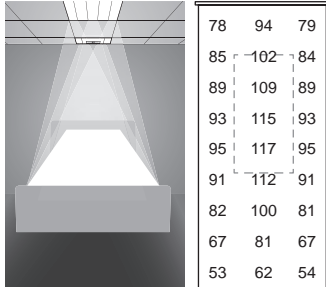
Electrostatic sensitive unit. Observe precautions when handling.

FOOTCANDLE ESTIMATOR & DISTRIBUTION

4AERN STYLE – All lights on



2AE+2ERN STYLE – All lights on



LOW-VOLTAGE CONTROLLER (120V or 277V only)

EXAMPLE: LVC3A/R/N

Controller	Load 1	Load 2	Load 3
LVC1 = 1-circuit	A = Ambient N = Nurse R = Reading E = Exam		
LVC2 = 2-circuit	A/ = Ambient R/ = Reading	A = Ambient N = Nurse R = Reading E = Exam	
LVC3 = 3-circuit or dimming control	A/ = Ambient R/ = Reading DIMA/ = Ambient, 0-10 dimming ¹ DIMR/ = Reading, 0-10 dimming ¹ DIMA/DIMR/ = Ambient and reading, 0-10 dimming ¹ SEQAR/ = Ambient and reading, sequential switching ²	A/ = Ambient N/ = Nurse R/ = Reading E/ = Exam	N = Nurse E = Exam

- Smooth dimming of the load utilizing a single, dry contact, momentary, normally open switch which will dim from 25% up to 100% while holding down the switch.
- Alternating off and on of (2) loads with multiple cycles of one switch

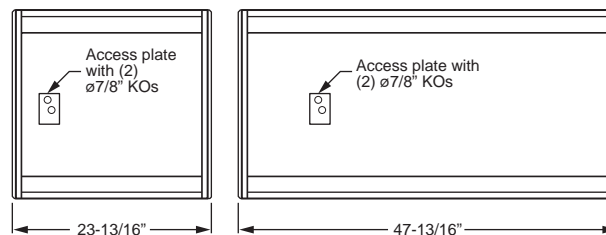
STYLE CONFIGURATION DETAILS

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

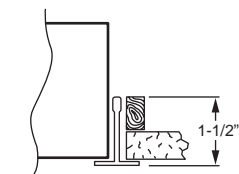
³ Some fixture configurations do not allow all drivers to be located within the nurse light or wiring compartment. Drivers and electrical connections will be located in primary fixture or wiring compartment (when "W" or "+" is specified) as space allows.

FIXTURE DETAILS

BACK VIEWS

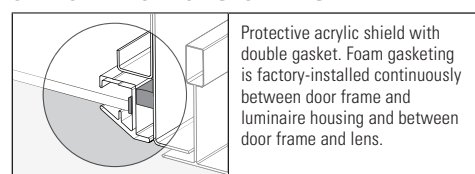


DRYWALL KIT (DFK)

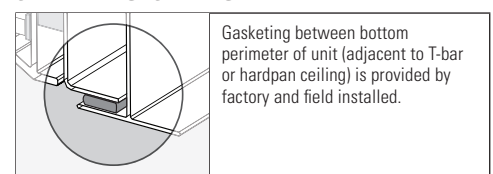


When using the DFK with Williams AMD fixture, the structure surrounding the DFK at each end of fixture is to extend no more than 1-1/2" from the bottom of the "T" as shown.

SANI-SHIELD OPTION GASKETING



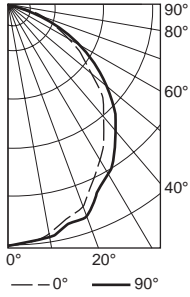
STANDARD GASKETING



PHOTOMETRY

Catalog #: **AMD4AERING-L44/840-A-DRV-UNV**

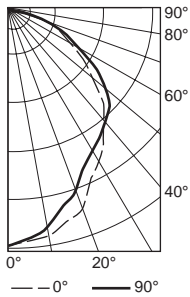
AMBIENT Report #: 18937.0; 07/07/15 | Total Luminaire Output: 4386 lumens; 47.4 Watts
Efficacy: 92.4 lm/W | 82.2 CRI; 3991K CCT | IES Spacing Criteria: End: 1.2, Across: 1.2, Diagonal: 1.2



CANDLEPOWER DISTRIBUTION	Vertical Angle	Horizontal Angle			Zonal Lumens
		0°	45°	90°	
0		1813	1813	1813	
5		1804	1800	1807	172.4
15		1653	1680	1724	485.4
25		1445	1498	1571	713.2
35		1198	1283	1377	839.2
45		923	1039	1139	831.8
55		603	726	797	667.9
65		355	457	421	440.1
75		162	186	151	193.9
85		44	40	31	41.7
90		0	0	0	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	1371	31.3
	0 - 40	2210	50.4
	0 - 60	3710	84.6
	0 - 90	4386	100.0
	0 - 180	4386	100.0

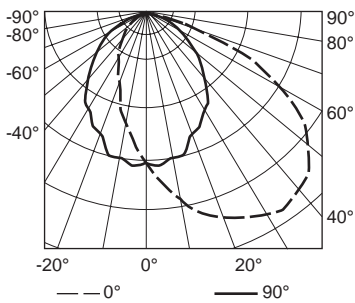
EXAM Report #: 18938.0; 07/07/15 | Total Luminaire Output: 8031 lumens; 72.1 Watts
Efficacy: 111.3 lm/W | 82.0 CRI; 3958K CCT | IES Spacing Criteria: End: 1.2, Across: 1.2, Diagonal: 1.2



CANDLEPOWER DISTRIBUTION	Vertical Angle	Horizontal Angle			Zonal Lumens
		0°	45°	90°	
0		3432	3432	3432	
5		3370	3365	3356	320.8
15		3190	3156	3118	893.7
25		2809	2737	2672	1264.8
35		2401	2345	2283	1468.3
45		1921	1960	1966	1505.2
55		1307	1429	1404	1239.4
65		826	922	777	847.3
75		404	379	278	387.1
85		116	100	88	105.0
90		0	0	0	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	2479	30.9
	0 - 40	3947	49.2
	0 - 60	6692	83.3
	0 - 90	8031	100.0
	0 - 180	8031	100.0

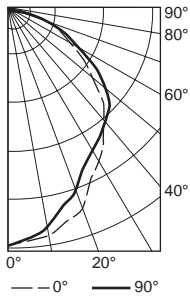
READING Report #: 18939.0; 07/07/15 | Total Luminaire Output: 1689 lumens; 19.3 Watts
Efficacy: 87.3 lm/W | 81.9 CRI; 3984 CCT | IES Spacing Criteria: End: 1.2, Across: 1.2, Diagonal: 1.2



CANDLEPOWER DISTRIBUTION	Vertical Angle	Horizontal Angle					Zonal Lumens
		0°	45°	90°	135°	180°	
0		584	584	584	584	584	
5		663	647	595	541	514	56.6
15		804	728	569	436	388	165.1
25		874	740	488	316	262	244.6
35		930	739	422	236	190	306.9
45		884	651	312	159	125	314.4
55		746	523	218	105	84	281.6
65		484	361	140	64	49	205.4
75		169	161	68	29	26	94.5
85		11	22	19	16	13	19.6
90		0	0	0	0	0	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	466	27.6
	0 - 40	773	45.8
	0 - 60	1369	81.1
	0 - 90	1689	100
	0 - 180	1689	100.0

NURSE COMPARTMENT Report #: 18940.0; 07/07/15 | Total Luminaire Output: 101 lumens; 9.1 Watts
Efficacy: 11.0 lm/W | 82.1 CRI; 4043K CCT | IES Spacing Criteria: End: 1.2, Across: 1.2, Diagonal: 1.2



CANDLEPOWER DISTRIBUTION	Vertical Angle	Horizontal Angle			Zonal Lumens
		0°	45°	90°	
0		0	0	0	
5		0	0	0	0
15		1	1	1	0.4
25		0	1	9	1.0
35		1	10	28	8.0
45		0	21	51	17.3
55		0	39	79	34.8
65		0	57	45	31.1
75		0	10	1	7.9
85		0	0	0	0
90		0	0	0	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	1	1.5
	0 - 40	9	9.4
	0 - 60	62	61.2
	0 - 90	101	100
	0 - 180	101	100.0

