

ARCHITECTURAL MULTI-FUNCTION MEDICAL

AMD

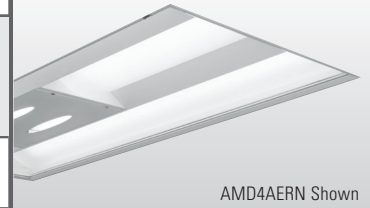
tunable **WHITE**

CATALOG #:	TYPE:
PROJECT:	NOTES:

EXAMPLE

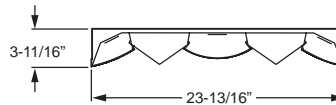
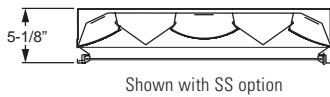
AMD 4AERN G - L44/8TW - A - OPTIONS - DALI - UNV

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



AMD4AERN Shown

CROSS SECTIONS



ORDERING INFORMATION

SERIES

AMD Architectural Medical – Tunable White

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.

CRI & CCT

8TW Tunable white (80 CRI, 3000K–5000K)

SHIELDING

A Frosted, ribbed acrylic diffusers

OPTIONS

Low-voltage controller options available, see page 3 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, reduces lumen output by 10%)

(L__) Additional lower lumen packages available. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
Example: 3,500 nominal lumens = MD4AG-4-L44/8TW-A-(L35).

AN Amber nurse light

CP Chicago Plenum (CCEA)

CONTROL

See page 3 for details.

DALI Driver prewired for DALI applications

DIM (1) 0-10V signal to control dimming

(1) 0-10V signal to control CCT

DMX Driver prewired for DMX applications

VOLTAGE

120 120V

277 277V

UNV 120-277V

FEATURES

- ▶ Tunable white from 3000K to 5000K CCT, minimum 80 CRI.
- ▶ 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.
- ▶ Toolless, 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 page 3 for details)	AMBIENT NOM. LUMENS	EXAM LUMENS	READING LUMENS	NURSE LUMENS	WIRING COMP.	WATTAGE
2AE		L27/ = 2,700	4,000	-	-	-	59
		L44/ = 4,400					75
2ARW		L27/ = 2,700	-	1,700	-	✓	45
		L44/ = 4,400					61
2ARN		L27/ = 2,700	-	1,700	100	-	53
		L44/ = 4,400					69
4AE		L27/ = 2,700	8,000	-	-	-	86
		L44/ = 4,400					105
4AERW		L27/ = 2,700	8,000	1,700	-	✓	105
		L44/ = 4,400					121
4AERN		L27/ = 2,700	8,000	1,700	100	-	113
		L44/ = 4,400					129
2AE+2ERW		L27/ = 2,700	8,000	1,700	-	✓	105
		L44/ = 4,400					121
2AE+2ERN		L27/ = 2,700	8,000	1,700	100	-	113
		L44/ = 4,400					129

Nominal lumen output based on 4000 CCT. Actual lumens may vary +/-5%, see fixture performance data. Additional LED lumen packages available, see options.



FIXTURE PERFORMANCE DATA

SPECIFICATIONS

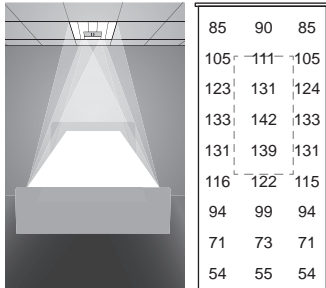
Housing – .040" formed aluminum.
Shielding – Frosted, ribbed acrylic diffusers.
Finish – Highly-reflective non-glare matte white anti-microbial powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
Electrical – High quality mid-power LED board. L70 > 50,000 hours per IES TM-21. 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. 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

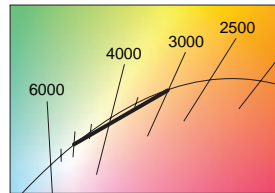


STYLE	LUMENS	DELIVERED LUMENS			TOTAL WATTAGE	
		AMBIENT	EXAM	READING		NURSE
2AE	L27	2700	4000	-	-	59
	L44	4400				75
2ARW	L27	2700	-	1700	-	45
	L44	4400				61
2ARN	L27	2700	-	1700	100	53
	L44	4400				69
4AE	L27	2700	8000	-	-	86
	L44	4400				105
4AERW	L27	2700	8000	1700	-	105
	L44	4400				121
4AERN	L27	2700	8000	1700	100	113
	L44	4400				129
2AE+ 2ERW	L27	2700	8000	1700	-	105
	L44	4400				121
2AE+ 2ERN	L27	2700	8000	1700	100	113
	L44	4400				129

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 4000K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

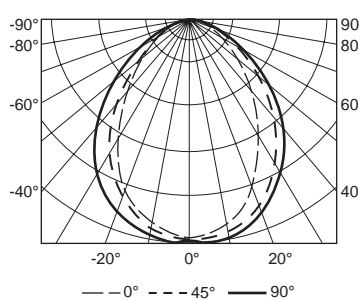
MULTIPLIER TABLE

CCT	CONVERSION FACTOR	
	LUMENS	WATTAGE
3000K	0.95	1.04
3500K	0.98	1.02
4000K	1.00	1.00
5000K	0.96	1.04



PHOTOMETRY

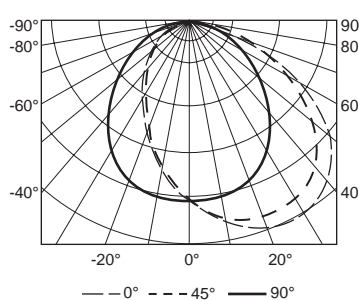
AMD4AERNG-L44/8TW-A-DALI-UNV Ambient only Report #: 18937.0; 07/07/15
 Total Luminaire Output: 4400 lumens; 40.0 Watts | Efficacy: 110.0 lm/W | 87.5 CRI; 5021K CCT



Vertical Angle	Horizontal Angle					Zonal Lumens
	0°	45°	90°	135°	180°	
0	1824	1824	1824	1824	1824	
5	1815	1811	1818	1824	1827	172
15	1663	1690	1734	1754	1757	489
25	1454	1507	1580	1598	1577	719
35	1205	1291	1385	1407	1360	836
45	928	1045	1146	1135	1050	824
55	607	730	802	807	703	669
65	357	460	424	519	424	441
75	163	187	152	204	186	202
85	44	40	31	37	38	48
90	0	0	0	0	0	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	1380	31
	0 - 60	3709	84
	0 - 90	4400	100
	0 - 180	4400	100

AMD4AERNG-L44/8TW-A-DALI-UNV Exam only Report #: 18938.0; 07/07/15
 Total Luminaire Output: 7997 lumens; 81.0 Watts | Efficacy: 99.0 lm/W | 86.4 CRI; 4994K CCT



Vertical Angle	Horizontal Angle					Zonal Lumens
	0°	45°	90°	135°	180°	
0	3432	3432	3432	3432	3432	
5	3370	3365	3356	3360	3360	320
15	3190	3156	3118	3147	3181	896
25	2809	2737	2672	2722	2785	1273
35	2401	2345	2283	2333	2371	1458
45	1921	1960	1966	1930	1884	1475
55	1307	1429	1404	1413	1275	1229
65	826	922	777	899	800	837
75	404	379	278	369	386	400
85	116	100	88	94	105	109
90	0	0	0	0	0	

LUMEN SUMMARY	Zone	Lumens	% Fixture
	0 - 30	2489	31
	0 - 60	6651	83
	0 - 90	7997	100
	0 - 180	7997	100

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

Bedside switch used to control dimming only, color tuning performed by alternate 0-10V control source.

EXAMPLE: LVC3A/R/N

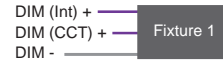
Controller	Load 1	Load 2	Load 3
LVC1 = 1-circuit	A = Ambient N = Nurse R = Reading E = Exam		
LVC2 = 2-circuit	A/ = Ambient R/ = Reading	A = Ambient N = Nurse R = Reading E = Exam	
LVC3 = 3-circuit or dimming control	A/ = Ambient R/ = Reading DIMA/ = Ambient, 0-10 dimming ¹ DIMR/ = Reading, 0-10 dimming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

¹ 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.

² Alternating off and on of (2) loads with multiple cycles of one switch

CONTROL DETAILS

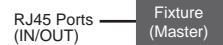
DIM



DALI



DMX



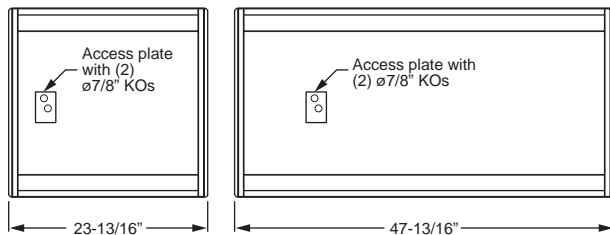
STYLE CONFIGURATION DETAILS

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 	

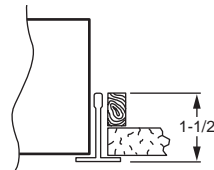
³ Some fixture configurations do not allow all drivers to be located within the nurse light or wiring compartment. Drivers and electrical connections will be located in primary fixture or wiring compartment (when "W" or "+" is specified) as space allows.

FIXTURE DETAILS

BACK VIEWS

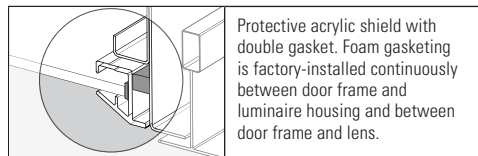


DRYWALL KIT (DFK)



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

