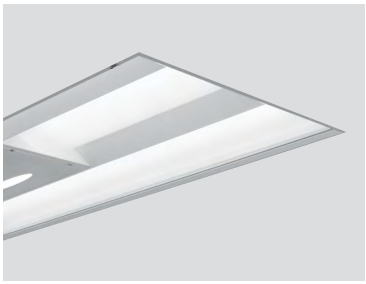
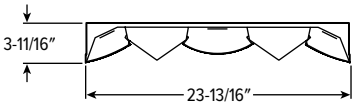
AMD LED
Architectural Multi-Function Medical





CATALOG #:

Type:

PROJECT:

FEATURES

- Attractive, efficient, multi-purpose fixture delivers comfortable, uniform illumination
- Tailor ambient, exam, reading and night light output with eight configurations
- Accommodate equipment with 2x4 and split 2x2 fixtures
- Various LED combinations result in pleasing, energy-efficient ambient illumination and necessary light levels for exam purposes
- Anti-microbial finish suppresses the spread of dangerous micro-organisms, mold, and bacterial growth
- Fixture to grid gasketing standard
- Room-side access without the use of tools
- Optional low-voltage controller allows for bedside lighting control
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Double-gasketed sani-shield option protects fixture from contaminants while simplifying maintenance and cleaning
- Maximize energy savings with efficacies as high as 131 lm/W
- Made Right Here® in the USA

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 per IES TM-21. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple shades of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – NEMA Type “G” 15/16″ or 1″ grid standard. For NEMA Type “NFG” and “SG” 9/16″ grid installations, specify EQCLIPS option. Flange installation available, shipped separately: see page 5 for DRYWALL KIT (DFK) OPTIONS.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - City of Chicago Environmental Air approved when specified with CP option.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

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

SERIES	STYLE	CEILING TYPE [1]	LUMENS [2]	CRI	CCT	SHIELDING
AMD	See table below for style options.	**G** 15/16″ or 1″ grid	Specified for ambient compartment only. See table below for lumens.	**8** 80 **9** 90	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K **TW** Tunable white (3000K–5000K) **TW2** Tunable white (2700K-6500K)	**A** Frosted, ribbed acrylic diffusers

OPTIONS [3]

*See page 4 for **LOW-VOLTAGE CONTROLLER OPTIONS**.*

EM/10W	10-watt emergency battery [4]
EQCLIPS	Earthquake clips. [5]
GLR	Fuse, fast blow, one per driver [6]
SS	Sani-shield acrylic cover with double gasket. [7]
SS/PC	Sani-shield polycarbonate cover with double gasket. [8]
(8___)	Color temperature in Exam (E), Reading (R) or Night (N) light compartments different than Ambient. Example: AMD4AERNG-L44/835-A-**(840E)** [9]
AN	Amber night light
CP	Chicago Plenum (CCEA)

DRIVER

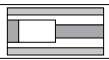
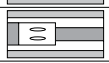
*See page 5 for **ADDITIONAL DRIVER OPTIONS.***

DIM	Dimming driver, 0-10V
DRV	Non-dimming driver [10]
DIM1	1 % Driver with external 0-10V dimming wires

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [11]

CONFIGURATIONS [12]

STYLE	CONFIGURATION	AMBIENT NOM. LUMENS	EXAM LUMENS	READING LUMENS	NIGHT LUMENS	WIRING COMP.
2AE		**L27** 2,700	4,000	—	—	—
		L44 4,400				
2ARW		**L27** 2,700	—	1,700	—	✓
		L44 4,400				
2ARN		**L27** 2,700	—	1,700	100	—
		L44 4,400				
4AE		**L27** 2,700	8,000	—	—	—
		L44 4,400				
		L76 7,600 [13]	11,600	—	—	—
4AERW		**L27** 2,700	8,000	1,700	—	✓
		L44 4,400				
4AERN		**L27** 2,700	8,000	1,700	100	—
		L44 4,400				
2AE+2ERW		**L27** 2,700	8,000	1,700	—	✓
		L44 4,400				
2AE+2ERN		**L27** 2,700	8,000	1,700	100	—
		L44 4,400				

NOTES

1 See page 5 for DRYWALL KIT (DFK) OPTIONS.
2 Lumen output based on 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
3 See page 4 for GASKETING DETAILS.
4 Ambient compartment only.
5 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting.
6 Specify voltage.
7 Increases fixture depth. Reduces lumen output by 10%.
8 Increases fixture depth. Reduces lumen output by 10%.
9 Must specify color temperature (30, 35, 40 or 50) and compartment. Not available with tunable white.
10 Not available with tunable white.
11 Not available with EM batteries, low-voltage controller options, or tunable white.
12 See page 4 for STYLE CONFIGURATION DETAILS. For additional lumen packages or configurations, consult factory.
13 Not available with tunable white.

FIXTURE PERFORMANCE DATA

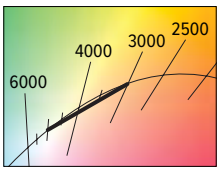
	STYLE	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	SYSTEM WATTAGE TOTAL	SYSTEM EFFICACY TOTAL
2AE	A	L27	2775	22.8	122	55.0	124
	A	L44	4523	37.0	122	69.2	124
	E	—	4056	32.2	126	—	—
2AR	A	L27	2715	20.7	131	36.8	121
	A	L44	4440	35.1	126	51.2	121
	R	—	1732	16.1	108	—	—
2ARN	A	L27	2715	20.7	131	48.8	93
	A	L44	4440	35.1	126	63.2	99
	R	—	1732	16.1	108	—	—
	N	—	108	12.0	9	—	—
4AE	A	L27	2809	22.8	123	86.1	127
	A	L44	4440	35.1	126	98.4	128
	A	L76	7423	57.9	128	152.6	123
	E	—	8111	63.3	128	—	—
	E	—	11309	94.7	119	—	—
4AER	A	L27	2775	22.8	122	102.2	123
	A	L44	4523	37.0	122	116.4	123
	E	—	8111	63.3	128	—	—
	R	—	1732	16.1	108	—	—
4AERN	A	L27	2775	22.8	122	114.2	111
	A	L44	4523	37.0	122	128.4	112
	E	—	8111	63.3	128	—	—
	R	—	1732	16.1	108	—	—
	N	—	108	12.0	9	—	—
2AE+2ER	A	L27	2775	22.8	122	102.2	123
	A	L44	4523	37.0	122	116.4	123
	E	—	8111	63.3	128	—	—
	R	—	1732	16.1	108	—	—
2AE+2ERN	A	L27	2775	22.8	122	114.2	111
	A	L44	4523	37.0	122	128.4	113
	E	—	8111	63.3	128	—	—
	R	—	1732	16.1	108	—	—
	N	—	108	12.0	9	—	—

MULTIPLIER TABLE

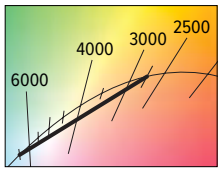
	CCT	COLOR TEMPERATURE STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI, 3500K for single CCT and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.
- POE PR fixture efficacy is typically 10-12% higher than shown at same lumen level. Consult factory during project design phase for details.

TW

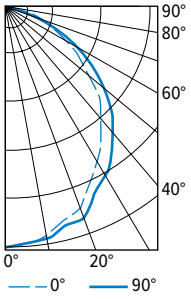


TW2



PHOTOMETRY

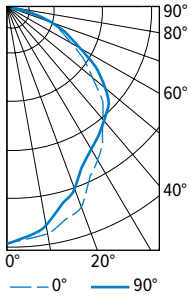
AMD4AERNG-L44/835-A-DRV-UNV Ambient Total Luminaire Output: 4523 lumens; 37 Watts | Efficacy: 122.2 lm/W | 80 CRI; 3500 CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	1875	1875	1875	
	5	1865	1861	1869	177
	15	1709	1737	1783	502
	25	1494	1549	1625	739
	35	1239	1327	1424	859
	45	954	1074	1178	847
	55	624	751	824	688
	65	367	473	435	454
	75	168	192	156	207
	85	45	41	32	49
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1419	31
	0 - 40	2278	50
	0 - 60	3813	84
	0 - 90	4523	100
	0 - 180	4523	100

AMD4AERNG-L44/835-A-DRV-UNV Exam Total Luminaire Output: 8111 lumens; 63.3 Watts | Efficacy: 128.1 lm/W | 80 CRI; 3500K CCT



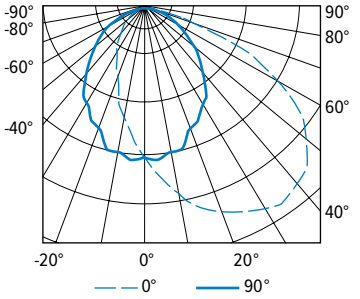
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	3481	3481	3481	
	5	3418	3413	3404	325
	15	3235	3201	3162	909
	25	2849	2776	2710	1291
	35	2435	2378	2316	1479
	45	1948	1988	1994	1496
	55	1326	1449	1424	1246
	65	838	935	788	849
	75	410	384	282	406
	85	118	101	89	111
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2525	31
	0 - 40	4004	49
	0 - 60	6746	83
	0 - 90	8111	100
	0 - 180	8111	100

PHOTOMETRY CONTINUED ON NEXT PAGE.

AMD LED
Architectural Multi-Function Medical

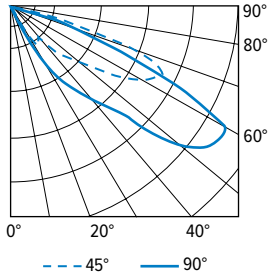
AMD4AERNG-L44/835-A-DRV-UNV Reading Total Luminaire Output: 1732 lumens; 16.1 Watts | Efficacy: 107.6 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	135°	180°	ZONAL LUMENS
	0	603	603	603	603	603	
	5	685	668	615	559	531	58
	15	830	752	588	450	401	166
	25	903	764	504	326	271	250
	35	961	763	436	244	196	311
	45	913	672	322	164	129	323
	55	770	540	225	108	87	289
	65	500	373	145	66	51	210
	75	175	166	70	30	27	101
	85	11	23	20	17	13	23
	90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	474	27
	0 - 40	785	45
	0 - 60	1398	81
	0 - 90	1732	100
	0 - 180	1732	100

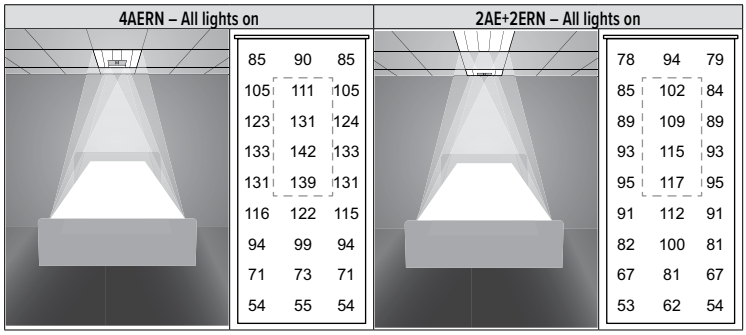
AMD4AERNG-L44/835-A-DRV-UNV Night Total Luminaire Output: 108 lumens; 12 Watts | Efficacy: 9 lm/W | 80 CRI; 3500K CCT



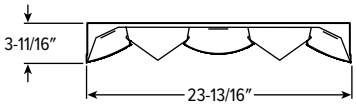
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	0	0	0	
	5	0	0	0	0
	15	1	1	1	0
	25	0	1	10	2
	35	1	11	30	8
	45	0	22	54	19
	55	0	41	84	36
	65	0	60	48	34
	75	0	11	1	9
	85	0	0	0	0
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2	2
	0 - 40	10	9
	0 - 60	66	61
	0 - 90	108	100
	0 - 180	108	100

FOOTCANDLE ESTIMATOR & DISTRIBUTION



CROSS SECTIONS

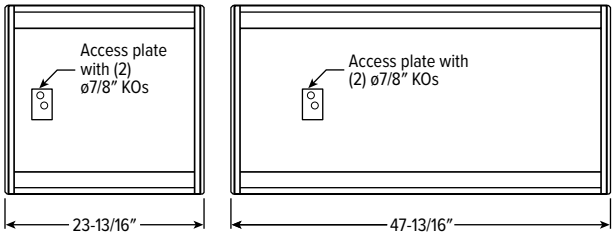


SS | SS/PC OPTIONS

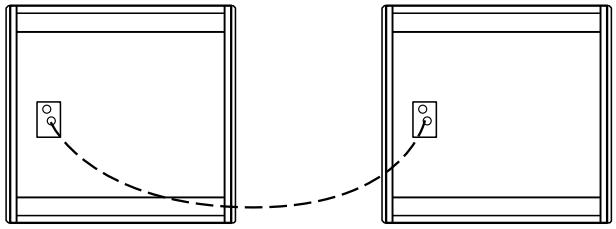
FIXTURE DETAILS

See hew.com/power-entry for power entry details.

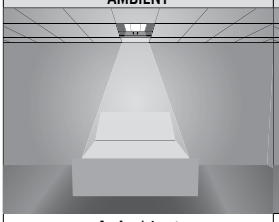
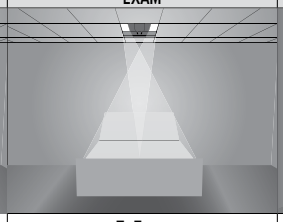
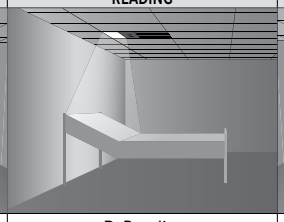
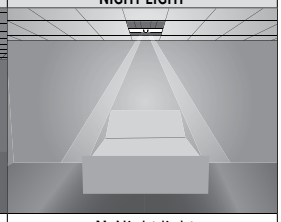
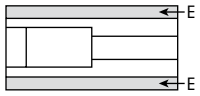
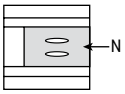
BACKVIEW

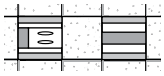


2 + 2 combinations supplied with 9' flexible whip between fixture pairs.



STYLE CONFIGURATION DETAILS

AMBIENT	EXAM	READING	NIGHT LIGHT
			
A Ambient	**E** Exam 	**R** Reading	**N** Night light 

WIRING COMPARTMENT	MULTIPLE FIXTURE CONFIGURATIONS
W Wiring compartment houses electrical equipment and connections in room-side accessible cabinet with tool-less access.	**+** 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.

LOW-VOLTAGE CONTROLLER OPTIONS

EXAMPLE: LVC3A/R/N			
CONTROLLER	**LOAD 1**	**LOAD 2**	**LOAD 3**
LVC1 1-circuit	**A** Ambient **N** Night **R** Reading **E** Exam		
LVC2 2-circuit	**A/** Ambient **R/** Reading	**A** Ambient **N** Night **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/** Night **R/** Reading **E/** Exam	**N** Night **E** Exam
	DIMA/DIMR/ Ambient and reading, 0-10 dimming [1] **SEQAR/** Ambient and reading, sequential switching [2]		

120V-277V only. LVC wall plate accessories available, see hew.com/LVCWP for details. Tunable white color tuning performed by alternate 0-10V control source.

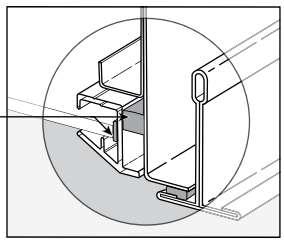
[1] Smooth dimming of the load utilizing a single, dry contact, momentary, normally open switch which will dim from 25% up to 100% while holding down the switch.

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

GASKETING DETAILS

SS | SS/PC OPTIONS

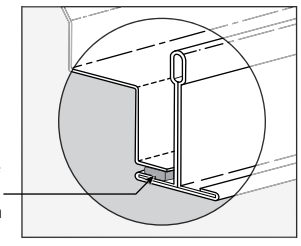
Gasketing factory-installed between door frame and luminaire housing and between door frame and lens.



STANDARD GASKETING

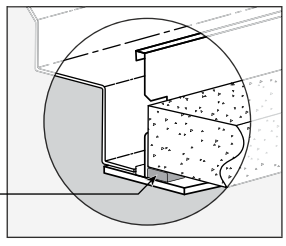
T-bar

Gasketing provided by factory and field installed between bottom perimeter of fixture and T-bar ceiling seals plenum dust from the room.



Drywall

Between bottom perimeter of fixture and hardpan ceiling.



DRYWALL KIT (DFK) OPTIONS

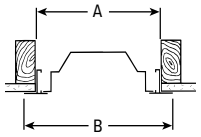
ORDERING INFO

EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall kit	**24** 2′	**24** 2′	**W** White **AMW** Anti-microbial white
	24 2′	**48** 4′	

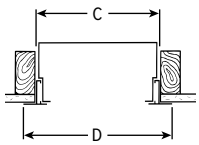
INSTALLATION DIMENSIONS

NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
2′ x 2′	24-3/8″	24-3/8″	25-5/16″	25-5/16″
2′ x 4′	24-3/8″	48-3/8″	25-5/16″	49-5/16″

TYPICAL INSTALLATION

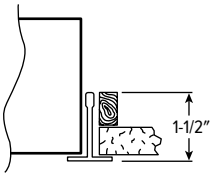


Width



Length

DRYWALL KIT DETAILS



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.

ADDITIONAL DRIVER OPTIONS

Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls dimming and (1) 0-10V signal controls CCT)
DIM1	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
SD40 [1]	40% step-dimming driver
SD50 [1]	50% step-dimming driver
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
PoE PR	Power over Ethernet-ready, fixture powered and controlled by remote UL- or CSA-listed PoE driver

[1] Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM

DALI

DMX

LD2