

CATALOG #: _____

Type: _____

PROJECT: _____

FEATURES



- Available with BIOS® SkyBlue® technology to support proper daytime circadian stimulus
- 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 white finish standard
- Fixture to grid gasketing standard
- Room-side access without the use of tools
- Optional low-voltage controller allows for bedside lighting control
- 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

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

ORDERING INFO

SERIES	STYLE	CEILING TYPE ^[1]	LUMENS ^[2]	CRI	CCT	SHIELDING
AMD	See table below for style options.	G NEMA Type "G"	Specified for ambient compartment only. See table below for lumens.	8 80 9 90 ^[3]	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K	A Frosted, ribbed acrylic diffusers

OPTIONS ^[4]

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

CONTROL

DIM	Dimming driver
DRV	Non-dimming driver

VOLTAGE

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

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 – Designed for NEMA Type "G" 1" grid ceiling 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.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

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				
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

- See page 5 for DRYWALL KIT (DFK) OPTIONS.
- Lumens based on 3500 CCT. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- Extended lead times may apply. Consult factory for availability.
- See page 4 for LOW-VOLTAGE CONTROLLER. See page 4 for GASKETING DETAILS.
- Ambient compartment only.
- 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting.
- Specify voltage
- Increases fixture depth. Reduces lumen output by 10%. See page 3 for CROSS SECTIONS.
- Increases fixture depth. Reduces lumen output by 10%. See page 3 for CROSS SECTIONS.
- Must specify color temperature (30, 35, 40 or 50) and compartment.
- Not available with EM battery
- See page 4 for STYLE CONFIGURATION DETAILS. For additional lumen packages or configurations, consult factory.



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	—	—
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
4AR	A	L27	2775	22.8	122	102.2	123
	A	L44	4523	37.0	122	116.4	123
	R	—	1732	16.1	108	—	—
4AERN	A	L27	2775	22.8	122	114.2	111
	A	L44	4523	37.0	122	128.4	112
	R	—	1732	16.1	108	—	—
2AE-ZER	A	L27	2775	22.8	122	102.2	123
	A	L44	4523	37.0	122	116.4	123
	E	—	8111	63.3	128	—	—
2AE-ZERN	A	L27	2775	22.8	122	114.2	111
	A	L44	4523	37.0	122	128.4	113
	R	—	1732	16.1	108	—	—
	A	L27	2775	22.8	122	—	—
	A	L44	4523	37.0	122	—	—
	N	—	108	12.0	9	—	—

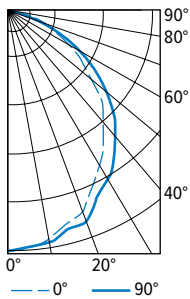
MULTIPLIER TABLE

		COLOR TEMPERATURE	
		CCT	CONVERSION FACTOR
80 CRI	2700K	0.97	
	3000K	0.99	
	3500K	1.00	
	4000K	1.03	
	5000K	1.06	
90 CRI	2700K	0.80	
	3000K	0.82	
	3500K	0.83	
	4000K	0.86	
	5000K	0.89	

- 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 3500K, 80 CRI, actual lumens may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

PHOTOMETRY

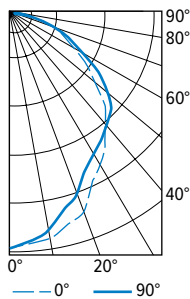
AMD4AERNG-L44/835-A-DRV-UNV Ambient Total Luminaire Output: 4523 lumens; 37 Watts | Efficacy: 122.2 lm/W | 80 CRI; 3500 CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
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

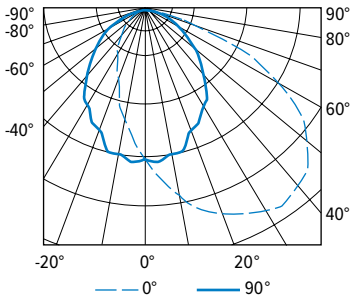


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	3481	3481	3481	
5	3418	3413	3404	325
15	3235	3201	3162	909
25	2849	2776	2710	1291
35	2435	2378	2316	1479
45	1948	1988	1994	1496
55	1326	1449	1424	1246
65	838	935	788	849
75	410	384	282	406
85	118	101	89	111
90	0	0	0	

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



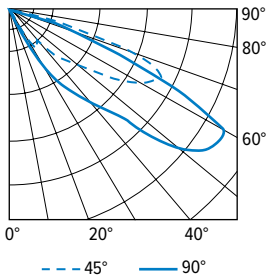
AMD4AERNG-L44/835-A-DRV-UNV Reading Total Luminaire Output: 1732 lumens; 16.1 Watts | Efficacy: 107.6 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	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

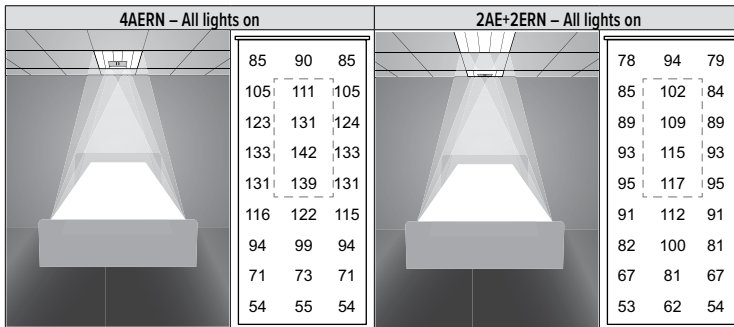
AMD4AERNG-L44/835-A-DRV-UNV Night Total Luminaire Output: 108 lumens; 12 Watts | Efficacy: 9 lm/W | 80 CRI; 3500K CCT



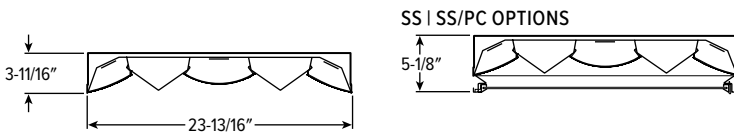
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	0	0	0	
	5	0	0	0	0
	15	1	1	1	0
	25	0	1	10	2
	35	1	11	30	8
	45	0	22	54	19
	55	0	41	84	36
	65	0	60	48	34
	75	0	11	1	9
	85	0	0	0	0
	90	0	0	0	

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

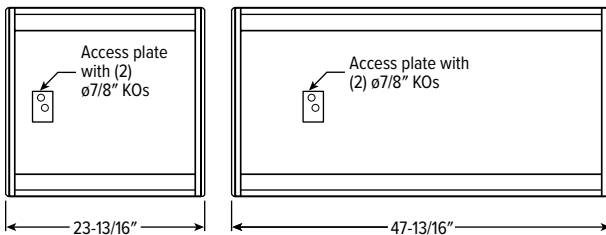


CROSS SECTIONS



FIXTURE DETAILS

BACKVIEW



LOW-VOLTAGE CONTROLLER

LVC wall plate accessories available, see hew.com for details.

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			

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.

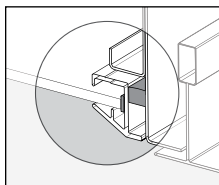
STYLE CONFIGURATION DETAILS

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.

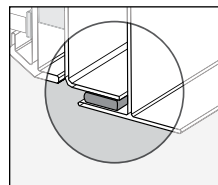
GASKETING DETAILS

SANI-SHIELD OPTION GASKETING



Protective acrylic shield with double gasket. Foam gasketing is factory-installed continuously between door frame and luminaire housing and between door frame and lens.

STANDARD GASKETING



Gasketing between bottom perimeter of unit (adjacent to T-bar or hardpan ceiling) is provided by factory and field installed.

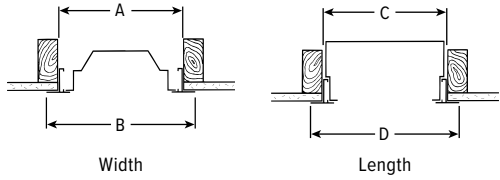


DRYWALL KIT (DFK) OPTIONS

ORDERING EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall Kit	See table below	See table below	W White AMW Anti-microbial white

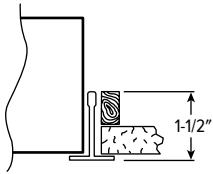
TYPICAL INSTALLATION

Refer to table for dimensions.



CATALOG NUMBER	NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
		WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
DFK-2424	2' x 2'	24-3/8"	24-3/8"	25-5/16"	25-5/16"
DFK-2448	2' x 4'	24-3/8"	48-3/8"	25-5/16"	49-5/16"

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.

