

CATALOG #: _____

Type: _____

PROJECT: _____

FEATURES



- Support human-centric design with adaptive, individualized lighting using tunable white light
- 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 113 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 board. L70 > 60,000 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** – 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.

ORDERING EXAMPLE: AMD 4AERN G - L44/8TW - A - OPTIONS - DALI - 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]	TW Tunable white (3000K-5000K) TW2 Tunable white (2700K-6500K)	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]
(L__)	Additional lower lumen packages available Example: 3,500 lumens = MD4AG-4-L44/8TW-A-(L35) ^[10]
AN	Amber night light
CP	Chicago Plenum (CCEA)

CONTROL

DALI	Driver prewired for DALI applications
DIM	Dimming driver with (1) 0-10V signal to control dimming and (1) 0-10V signal to control CCT
DMX	Driver prewired for DMX applications
PSQ	Lutron T-Series 2-channel tunable white 1%.

VOLTAGE

DALI	120 120V
DIM	277 277V
UNV	120-277V

CONFIGURATIONS ^[11]

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				
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. See page 3 for FIXTURE DETAILS.
- Lumens based on 4000 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- Extended lead times may apply. Consult factory for availability.
- See page 3 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.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- See page 4 for STYLE CONFIGURATION DETAILS. For additional lumen packages or configurations, consult factory.



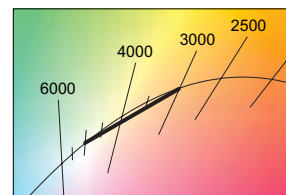
FIXTURE PERFORMANCE DATA

	STYLE	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	SYSTEM WATTAGE TOTAL	SYSTEM EFFICACY TOTAL
2AE	A	L27	2730	28.0	98	68	100
	A	L44	4477	42.6	105	82	104
	E	—	4061	39.8	102	—	—
2AR	A	L27	2759	26.2	105	44	102
	A	L44	4498	43.1	104	61	103
	R	—	1772	18.1	98	—	—
2ARN	A	L27	2759	26.2	105	56	83
	A	L44	4498	43.1	104	73	87
	R	—	1772	18.1	98	—	—
4AE	N	—	106	11.8	9	—	—
	A	L27	2759	26.2	105	82	111
	A	L44	4498	43.1	104	99	109
4AER	E	—	6351	56.1	113	—	—
	A	L27	2730	28.0	98	182	60
	A	L44	4477	42.6	105	197	64
4AERN	R	—	1772	98.1	18	—	—
	A	L27	2730	28.0	98	194	57
	A	L44	4477	42.6	105	209	61
2AE-2ER	E	—	6351	56.1	113	—	—
	R	—	1772	98.1	18	—	—
	A	L27	2730	28.0	98	182	60
2AE-2ERN	A	L44	4477	42.6	105	197	64
	E	—	6351	56.1	113	—	—
	R	—	1772	98.1	18	—	—
2AE-2ERN	N	—	106	11.8	9	—	—

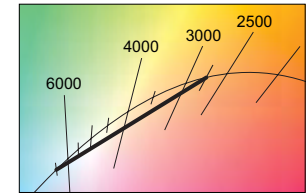
MULTIPLIER TABLE

	COLOR TEMPERATURE				
	CCT	TW		TW2	
		LUMENS	WATTAGE	LUMENS	WATTAGE
80 CRI	2700K	—	—	0.93	1.02
	3000K	0.95	1.04	0.95	1.01
	3500K	0.98	1.02	0.98	1.00
	4000K	1.00	1.00	1.00	1.00
	5000K	0.96	1.04	1.02	1.00
6500K	—	—	1.01	1.04	
90 CRI	2700K	—	—	0.93	1.02
	3000K	0.91	1.03	0.95	1.01
	3500K	0.96	1.01	0.98	1.00
	4000K	1.00	1.00	1.00	1.00
	5000K	1.03	1.03	1.03	1.00
6500K	—	—	1.02	1.04	

TW



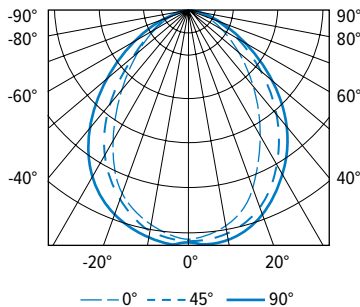
TW2



- 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%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

PHOTOMETRY

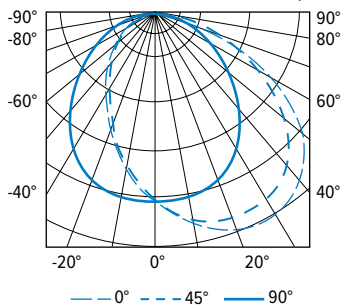
AMD4AERNG-L44/8TW-A-DALI-UNV (Ambient Only) Total Luminaire Output: 4477 lumens; 42.6 Watts | Efficacy: 105.1 lm/W | 80 CRI; 4000 CCT



VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	1856	1856	1856	1856	1856	
5	1846	1842	1850	1856	1859	175
15	1692	1720	1765	1785	1788	497
25	1479	1533	1608	1626	1605	732
35	1226	1313	1409	1432	1384	850
45	945	1063	1166	1155	1069	838
55	617	743	816	821	715	681
65	363	468	431	528	431	449
75	166	190	155	208	189	205
85	45	41	32	38	39	49
90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1405	31
	0 - 40	2255	50
	0 - 60	3774	84
	0 - 90	4477	100
	0 - 180	4477	100

AMD4AERNG-L44/8TW-A-DALI-UNV (Exam Only) Total Luminaire Output: 6351 lumens; 56.1 Watts | Efficacy: 113.3 lm/W | 80 CRI; 4000 CCT

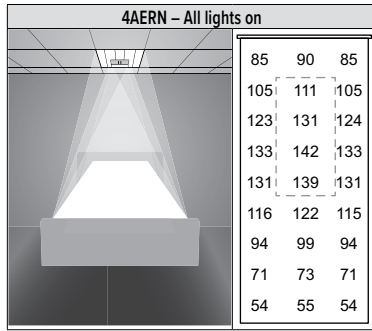


VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	2726	2726	2726	2726	2726	
5	2676	2672	2665	2668	2668	254
15	2533	2506	2476	2499	2526	712
25	2231	2174	2122	2162	2212	1011
35	1907	1862	1813	1853	1883	1158
45	1526	1557	1561	1533	1496	1171
55	1038	1135	1115	1122	1013	976
65	656	732	617	714	635	664
75	321	301	221	293	307	318
85	92	79	70	75	83	87
90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1977	31
	0 - 40	3135	49
	0 - 60	5282	83
	0 - 90	6351	100
	0 - 180	6351	100



FOOTCANDLE ESTIMATOR & DISTRIBUTION



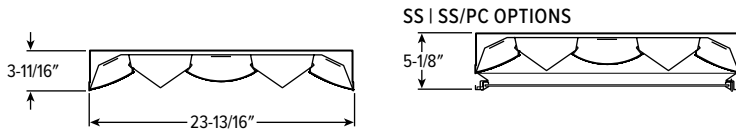
LOW-VOLTAGE CONTROLLER

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	A	Ambient	
	R/	Reading	N	Night	
			R	Reading	
			E	Exam	
LVC3 3-circuit or dimming control	A/	Ambient	A/	Ambient	N
	R/	Reading	N/	Night	
	DIMA/	Ambient, 0-10 dimming ¹	R/	Reading	
	DIMR/	Reading, 0-10 dimming ¹	E/	Exam	
	DIMA/DIMR/ Ambient and reading, 0-10 dimming ¹				
	SEQAR/ Ambient and reading, sequential switching ²				

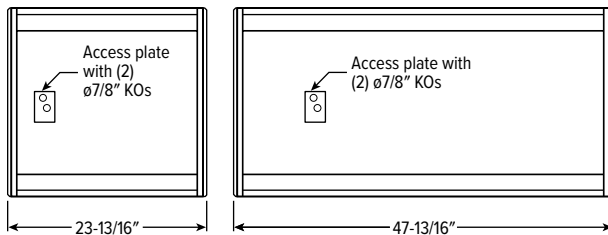
- ¹ Smooth dimming of the load utilizing a single, dry contact, momentary, normally open switch which will dim from 25% up to 100% while holding down the switch.
- ² Alternating off and on of (2) loads with multiple cycles of one switch.

CROSS SECTIONS

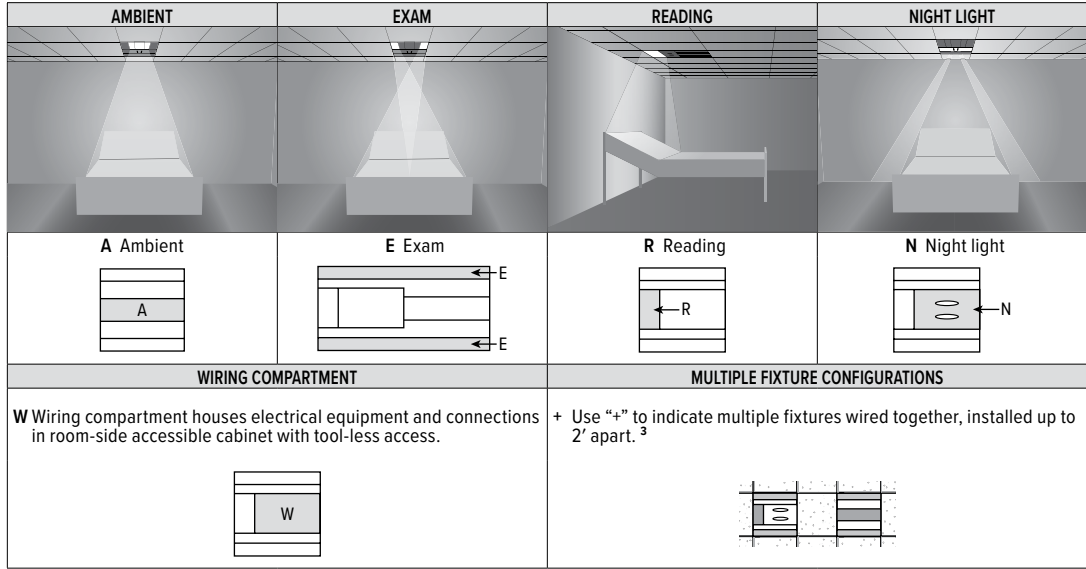


FIXTURE DETAILS

BACKVIEW



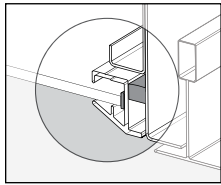
STYLE CONFIGURATION DETAILS



³ Some fixture configurations do not allow all drivers to be located within the night 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.

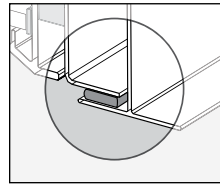
GASKETING DETAILS

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.

CONTROL DETAILS

DIM



DALI



DMX



LUTRON T-SERIES

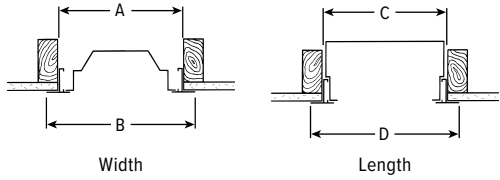


DRYWALL KIT (DFK) OPTIONS

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

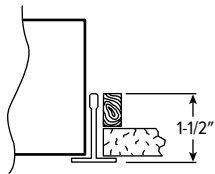
TYPICAL INSTALLATION

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.

