AMD tunable WHITE
Architectural Multi-Function Medical

Williams

CATALOG #: _____

Type: _____

PROJECT: _____

3-11/16″

23-13/16″

BAA & BABA COMPLIANT

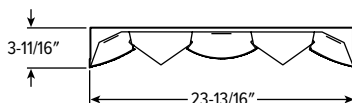CCEA Approved

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 – 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 4 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 - L44/8TW - A - OPTIONS - DALI - UNV

ORDERING INFO

SERIES	STYLE	CEILING TYPE [1]	LUMENS [2]	CRI	CCT	SHIELDING
AMD	See table below for style options.	G 15/16″ or 1″ grid	Specified for ambient compartment only. See table below for lumens.	8 80 9 90	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]
(L__)	Additional lower lumen packages available Example: 3,500 lumens = MD4AG-4-L44/8TW-A-**(L35)** [9]
AN	Amber night light
CP	Chicago Plenum (CCEA)

CONTROL
See page 4 for CONTROL DETAILS.

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
LD2	Lutron DALI-2 digital driver, 1%

VOLTAGE
120	120V
277	277V
UNV	120-277V

CONFIGURATIONS [10]

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

1. See page 4 for DRYWALL KIT (DFK) OPTIONS. See page 3 for FIXTURE DETAILS.
2. Lumens output based on 80 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
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%. See page 3 for CROSS SECTIONS. See page 4 for GASKETING DETAILS.
8. Increases fixture depth. Reduces lumen output by 10%. See page 3 for CROSS SECTIONS. See page 4 for GASKETING DETAILS.
9. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
10. See page 3 for STYLE CONFIGURATION DETAILS. For additional lumen packages or configurations, consult factory.

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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	—	—
	N	—	106	11.8	9	—	—
4AE	A	L27	2759	26.2	105	82	111
	A	L44	4498	43.1	104	99	109
	E	—	6351	56.1	113	—	—
4AER	A	L27	2730	28.0	98	182	60
	A	L44	4477	42.6	105	197	64
	E	—	6351	56.1	113	—	—
	R	—	1772	98.1	18	—	—
4AERN	A	L27	2730	28.0	98	194	57
	A	L44	4477	42.6	105	209	61
	E	—	6351	56.1	113	—	—
	R	—	1772	98.1	18	—	—
	N	—	106	11.8	9	—	—
2AE+2ER	A	L27	2730	28.0	98	182	60
	A	L44	4477	42.6	105	197	64
	E	—	6351	56.1	113	—	—
	R	—	1772	98.1	18	—	—
2AE+2ERN	A	L27	2730	28.0	98	194	57
	A	L44	4477	42.6	105	209	61
	E	—	6351	56.1	113	—	—
	R	—	1772	98.1	18	—	—
	N	—	106	11.8	9	—	—

MULTIPLIER TABLE

|	CCT	COLOR TEMPERATURE			
		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	–	–	0.81	1.02
	3000K	0.83	1.04	0.83	1.01
	3500K	0.86	1.02	0.86	1.00
	4000K	0.88	1.00	0.88	1.00
	5000K	0.84	1.04	0.89	1.00
	6500K	–	–	0.88	1.04

TW
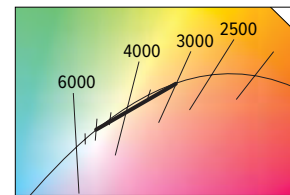
TW2
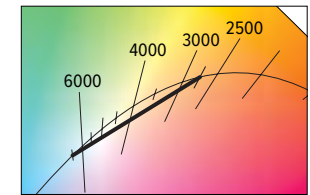
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/4000K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

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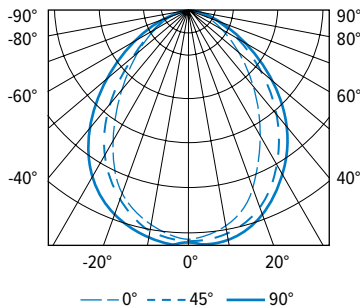
VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0º	45º	90º	135º	180º	
0	1856	1856	1856	1856	1856	
5	1846	1842	1850	1856	1859	175
15	1692	1720	1765	1785	1788	497
25	1479	1533	1608	1626	1605	732
35	1226	1313	1409	1432	1384	850
45	945	1063	1166	1155	1069	838
55	617	743	816	821	715	681
65	363	468	431	528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

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
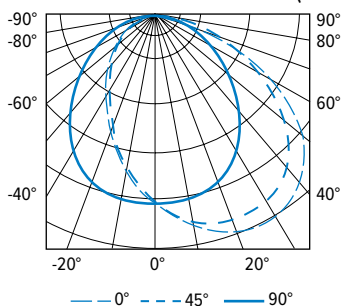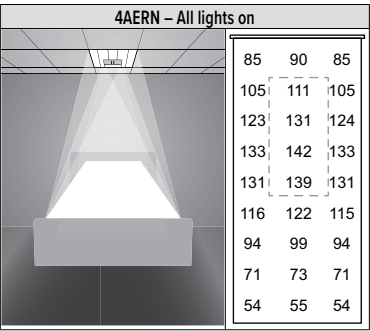

VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0º	45º	90º	135º	180º	
0	2726	2726	2726	2726	2726	
5	2676	2672	2665	2668	2668	254
15	2533	2506	2476	2499	2526	712
25	2231	2174	2122	2162	2212	1011
35	1907	1862	1813	1853	1883	1158
45	1526	1557	1561	1533	1496	1171
55	1038	1135	1115	1122	1013	976
65	656	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	

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

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FOOTCANDLE ESTIMATOR & DISTRIBUTION

4AERN – All lights on

85	90	85
105	111	105
123	131	124
133	142	133
131	139	131
116	122	115
94	99	94
71	73	71
54	55	54

CROSS SECTIONS

3-11/16″
23-13/16″

SS | SS/PC OPTIONS

5-1/8″

FIXTURE DETAILS

BACKVIEW

Access plate with (2) ø7/8″ KOs

23-13/16″

Access plate with (2) ø7/8″ KOs

47-13/16″

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
A	E / E	R	N

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. [1]
W	

[1] 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.

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LOW-VOLTAGE CONTROLLER OPTIONS

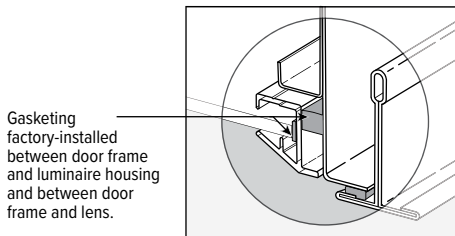| EXAMPLE: LVC3A/R/N			
CONTROLLER	**LOAD 1**	**LOAD 2**	**LOAD 3**
LVC1 1-circuit	**A** Ambient **N** Night **R** Reading **E** Exam		
LVC2 2-circuit	**A/** Ambient **R/** Reading	**A** Ambient **N** Night **R** Reading **E** Exam	
LVC3 3-circuit or dimming control	**A/** Ambient **R/** Reading **DIMA/** Ambient, 0-10 dimming [1] **DIMR/** Reading, 0-10 dimming [1] **DIMA/DIMR/** Ambient and reading, 0-10 dimming [1] **SEQAR/** Ambient and reading, sequential switching [2]	**A/** Ambient **N/** Night **R/** Reading **E/** Exam	**N** Night **E** Exam

120V-277V only. Tunable white color tuning performed by alternate 0-10V control source.

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

[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.
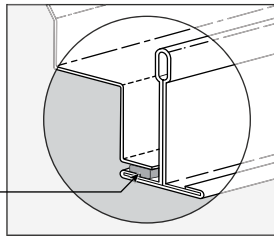
GASKETING DETAILS

SS | SS/PC OPTIONS

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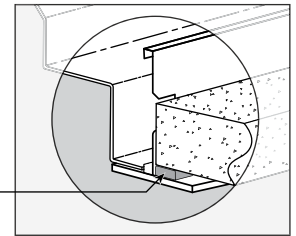
STANDARD GASKETING

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.
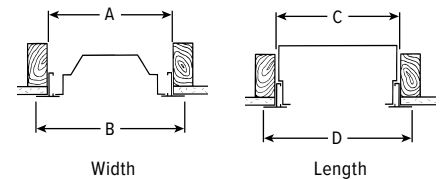
DRYWALL KIT (DFK) OPTIONS

ORDERING INFO

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

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

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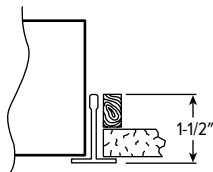
When using the DFK with Williams AMD fixture, the structure surrounding the DFK at each end of fixture is to extend no more than 1-1/2″ from the bottom of the "T" as shown.

CONTROL DETAILS

DIM

DIM (Int) +
DIM (CCT) +
DIM -

Fixture 1

DALI

DALI +
DALI -

Fixture 1

DMX

RJ45 Ports (IN/OUT)

Fixture (Master)

LD2

DA +
DA -

Fixture 1

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