

CATALOG #: _____

Type: _____

PROJECT: _____

FEATURES

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Designed for use in pairs to asymmetrically illuminate patient beds
- Fixtures can be installed to allow maintenance access without working directly over patient beds
- Maximize energy savings with efficacies as high as 111 lm/W
- Anti-microbial white finish standard
- Made Right Here® in the USA



ORDERING EXAMPLE: MD2 G - 4 - P25/840 - A - OPTIONS - POE PR

ORDERING INFO

SERIES	CEILING TYPE	LENGTH	LUMENS ^[1]	CRI	CCT
MD2	G 9/16", 15/16", or 1" grid ^[2]	4' 4'	P25 2,500lm	8 80 9 90 ^[3]	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K TW Tunable white (3000K-5000K) TW2 Tunable white (2700K-6500K)

SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- DOOR FRAME – Steel door frame with integral torsion springs to secure the frame within the fixture.
- SHIELDING – Frosted, ribbed acrylic.
- FINISH – Textured 92% minimum average reflective white anti-microbial powder coating 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. Low-voltage DC fixture, to be fed by Class 2 power supply. 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. Drywall flange kit available, shipped separately, see options. Fixture must be installed prior to Drywall Kit.
- LISTINGS –
 - cCSAus certified as luminaire suitable for dry or damp locations.
 - 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.

SYSTEM REQUIREMENTS

- PoE-ready luminaires are connected to building power systems through network integration and require other components for complete PoE lighting system
- For additional PoE info, see hew.com/poe

SHIELDING

- A Curved frosted ribbed acrylic
- A/CHA118 Curved frosted ribbed acrylic with clear, high temperature non-prismatic lens
- A/PC118 Curved frosted ribbed acrylic with clear polycarbonate lens

OPTIONS

- EQCLIPS Earthquake clips ^[5]
- BC Fixture prewired for bedside controls. ^[6]
- SG Single closed-cell foam gasketing ^[7]
- DFK-0648AMW Drywall kit, 6" x 48", anti-microbial white ^[8]

CONTROL ^[4]

- POE PR Power over Ethernet-ready

NOTES

- Lumens based on A Shielding, 80 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- Must specify EQCLIPS option when 9/16" grid mounting.
- Extended lead times may apply. Consult factory for availability.
- For additional PoE connection details, consult factory.
- 2 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting.
- Button functionality determined with gateway software.
- Field installed.
- See page 3 for DRYWALL KIT (DFK) OPTIONS. Fixture must be installed prior to Drywall Kit (DFK).



MD2 PoE | tunable **WHITE** Asymmetric Medical Bed Light

FIXTURE PERFORMANCE DATA

STANDARD

LED PACKAGE	A			A/CHA118		
	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
4" P25	2535	22.7	112	2380	22.7	105

TUNABLE WHITE

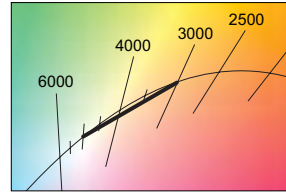
LED PACKAGE	A			A/CHA118		
	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
4" P25	2507	25.1	100	2353	25.1	94

MULTIPLIER TABLE

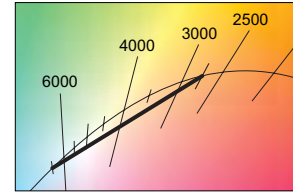
COLOR TEMPERATURE				
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.94	—	0.93
	3000K	0.96	0.95	0.95
	3500K	0.97	0.98	0.98
	4000K	1.00	1.00	1.00
	5000K	1.03	0.96	1.02
	6500K	—	—	1.01
90 CRI	2700K	0.77	—	0.93
	3000K	0.79	0.91	0.95
	3500K	0.80	0.96	0.98
	4000K	0.83	1.00	1.00
	5000K	0.86	1.03	1.03
	6500K	—	—	1.02

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/4000K CCT, and 25°C ambient temperature. Actual performance may vary +/-5%.
- Use multiplier table to calculate additional options.

TW

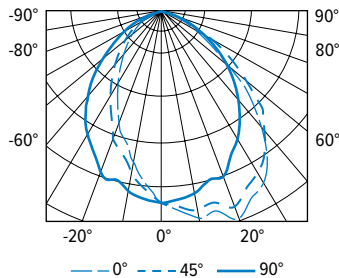


TW2



PHOTOMETRY

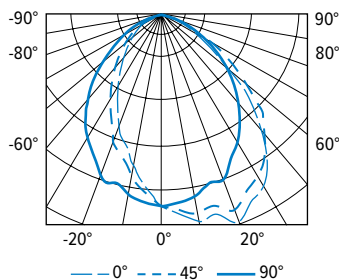
MD2G-4-P25/840-A Total Luminaire Output: 2535 lumens; 22.7 Watts | Efficacy: 112 lm/W | 80 CRI; 4000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	1198	1198	1198	1198	1198	
5	1258	1227	1170	1121	1090	112
15	1293	1236	1089	930	856	311
25	1294	1223	996	741	639	455
35	1139	1109	841	555	457	511
45	796	885	639	378	302	467
55	416	551	424	240	187	344
65	194	287	258	138	112	211
75	82	112	120	61	54	99
85	18	25	29	15	12	25
90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	878	35
	0 - 40	1389	55
	0 - 60	2200	87
	0 - 90	2535	100
	0 - 180	2535	100

MD2G-4-P25/840-CHA118 Total Luminaire Output: 2380 lumens; 22.7 Watts | Efficacy: 105 lm/W | 80 CRI; 4000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	1136	1136	1136	1136	1136	
5	1193	1165	1114	1067	1043	106
15	1224	1172	1037	892	824	296
25	1228	1159	952	723	630	436
35	1084	1051	805	547	457	491
45	761	836	613	378	311	450
55	387	510	399	241	193	326
65	164	246	230	130	108	188
75	54	78	90	48	42	74
85	9	11	12	8	8	13
90	0	0	0	0	0	

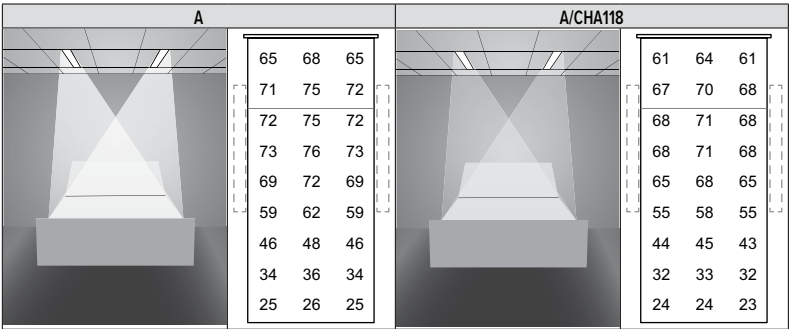
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	838	35
	0 - 40	1330	56
	0 - 60	2105	88
	0 - 90	2380	100
	0 - 180	2380	100



MD2 PoE | tunable WHITE

Asymmetric Medical Bed Light

FOOTCANDLE ESTIMATOR & DISTRIBUTION



Footcandle calculations based on standard reflectance of 90/60/30 and a light loss factor of 1.0. Fixtures spaced 3' 6" O.C. over 3' wide bed at an 8' ceiling height. Values are for bed surface.

FIXTURE DETAILS

BACKVIEW



DRYWALL KIT (DFK) OPTIONS

ORDERING INFO

EXAMPLE: DFK - 06 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall kit	06 6"	48 4'	W White AMW Anti-microbial white

INSTALLATION DIMENSIONS

NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
6" x 4'	6-3/8"	48-3/8"	7-5/16"	49-5/16"

TYPICAL INSTALLATION

Refer to table for dimensions.

