

CATALOG #: \_\_\_\_\_

Type: \_\_\_\_\_

PROJECT: \_\_\_\_\_

## FEATURES

- Designed for use in pairs to asymmetrically illuminate patient beds
- Fixtures can be installed to allow maintenance access without working directly over patient beds
- Optional low-voltage controller allows for bedside lighting control
- Multiple dimming protocols available
- Provides varying levels of illumination through dimming driver
- Anti-microbial white finish standard
- Quick-wire access plate in back of fixture housing for easy attachment of incoming power supply
- Maximize energy savings with efficacies as high as 106 lm/W
- Made Right Here® in the USA

## 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. Rated for 50,000 hours at 70% lumen maintenance (L70). 25°C maximum ambient operating temperature.
- MOUNTING** – NEMA Type “G” standard. For flange installations use the Drywall Kit (DFK), ordered separately. Fixture must be installed prior to Drywall Kit (DFK). Accommodates “NFG” and “SS” without modification (earthquake clips required).
- LISTINGS** –
  - cETLus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations.
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

## ORDERING EXAMPLE: MD2 G - 4 - L30/840 - A - OPTIONS - DIM - UNV

### ORDERING INFO

SERIES	CEILING TYPE <sup>[1]</sup>	LENGTH	LUMENS <sup>[2]</sup>	CRI	CCT	SHIELDING
MD2	G NEMA Type “G”, “SS”, and “NFG”	4 4’	L30 3,000lm	8 80	27 2700K	A Curved frosted ribbed acrylic
					30 3000K	A/CHA118 Curved frosted ribbed acrylic with clear, high temperature non-prismatic lens
					35 3500K	
					40 4000K	
					50 5000K	A/PC118 Curved frosted ribbed acrylic with clear polycarbonate lens

### OPTIONS

EM/10W	10-watt emergency battery
GLR	Fuse, fast blow <sup>[5]</sup>
EQCLIPS	Earthquake clips <sup>[6]</sup>
LVC1	1-circuit low-voltage controller, wired for Ambient <sup>[7]</sup>
LVC3DIM	1-circuit dimming low-voltage controller <sup>[8]</sup>
SG	Single closed-cell foam gasketing <sup>[9]</sup>
DFK-0648AMW	Drywall kit, 6” x 48”, anti-microbial white <sup>[10]</sup>

### CONTROL <sup>[4]</sup>

DIM	Dimming driver
DRV	Non-dimming driver

### VOLTAGE

120	120V
277	277V
UNV	120-277V

## NOTES

- When using in NEMA Type “SS” or “NFG” applications, must specify EQCLIPS option. For flange installations use the Drywall Kit (DFK), see Options. Fixture must be installed prior to Drywall Kit (DFK).
- Lumen output based on 4000 CCT and A Shielding. 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 ADDITIONAL CONTROL OPTIONS.
- Specify voltage. Requires one per driver.
- 2 per fixture.
- 120V or 277V only. Not dimming compatible.
- 120V or 277V only. DIM driver only.
- Field installed.
- Must be ordered separately. Fixture must be installed prior to Drywall Kit (DFK).



# MD2 LED Asymmetric Medical Bed Light

## FIXTURE PERFORMANCE DATA

LED PACKAGE	A			A/CHA118		
	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L30	3014	28.3	106.4	2829	28.3	99.8

- 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 and A Shielding, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

## MULTIPLIER TABLES

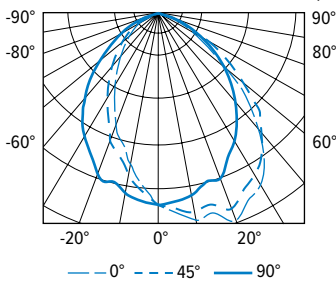
COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
2700K	0.94
3000K	0.96
3500K	0.97
4000K	1.00
5000K	1.03

80 CRI	
CCT	CONVERSION FACTOR
2700K	0.77
3000K	0.79
3500K	0.80
4000K	0.83
5000K	0.86

## PHOTOMETRY

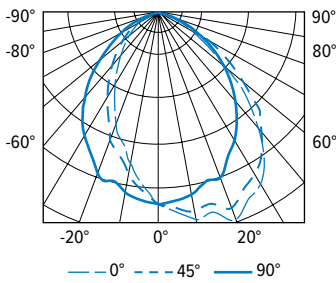
**MD2G-4-L30/840-A** Total Luminaire Output: 3014 lumens; 28.3 Watts | Efficacy: 106.4 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	1425	1425	1425	1425	1425	
	5	1496	1459	1391	1333	1296	133
	15	1537	1470	1295	1106	1018	370
	25	1538	1454	1184	882	760	541
	35	1355	1319	1000	660	543	608
	45	946	1052	760	450	360	555
	55	494	656	504	286	222	408
	65	231	341	307	164	134	250
	75	98	133	143	72	64	118
	85	21	30	35	17	14	30
	90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1044	35
	0 - 40	1652	55
	0 - 60	2615	87
	0 - 90	3014	100
	0 - 180	3014	100

**MD2G-4-L30/840-A/CHA118** Total Luminaire Output: 2829 lumens; 28.3 Watts | Efficacy: 99.8 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
		0°	45°	90°	135°	180°	
	0	1351	1351	1351	1351	1351	
	5	1418	1384	1325	1269	1240	126
	15	1454	1393	1232	1060	980	352
	25	1459	1377	1131	859	749	518
	35	1288	1250	956	650	543	584
	45	905	994	729	450	370	535
	55	460	607	475	286	230	387
	65	195	292	274	155	129	223
	75	64	92	107	57	50	88
	85	11	13	14	10	10	16
	90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	996	35
	0 - 40	1581	56
	0 - 60	2502	88
	0 - 90	2829	100
	0 - 180	2829	100

## FOOTCANDLE ESTIMATOR & DISTRIBUTION

A	A/CHA118
81	76
85	80
81	77
90	85
94	89
91	86
95	86
91	86
95	86
86	82
90	85
86	82
74	70
77	73
74	70
58	55
60	56
58	55
43	41
45	42
43	41
32	30
33	31
31	30

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.



# MD2 LED Asymmetric Medical Bed Light

## ADDITIONAL CONTROL OPTIONS

Note: Lumen restrictions apply, consult product builder at [hew.com/product-builder](http://hew.com/product-builder).

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (Must specify 120V or 277V only)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
LDE5	Lutron 5-Series 5% EcoSystem dimming LED driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

## FIXTURE DETAILS

### BACKVIEW

