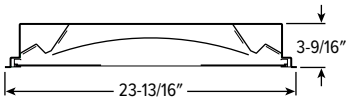
CMR LED
Contour Multi-Function Recessed



CATALOG #:

Type:

PROJECT:

BAA & BABA COMPLIANT | Low UGR | CCEA Approved | TW

FEATURES

- Contoured architectural form designed to bring comfort, versatility, and thoughtful functionality to modern healthcare spaces
- Ambient, exam, reading, and night lighting in one integrated solution
- Low UGR enhances visual comfort
- Optional low-voltage bedside and wall plate controls provide convenient access
- Amber night light option supports a restful atmosphere
- Illuminated reading halo creates a subtle visual accent
- Anti-microbial finish suppresses the spread of dangerous micro-organisms, mold, and bacterial growth
- Room-side access streamlines maintenance
- Smooth surface door frame and lens materials simplify cleaning
- Double gasketing minimizes contaminants
- Shallow housing fits limited plenum spaces
- Create a consistent look throughout the healthcare setting with the Contour Medical Series, see hew.com/contour-family
- Support human-centric design with adaptive, individualized lighting using tunable white light, consult factory
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – .040″ formed aluminum.
- DOOR FRAME – Hinged, flat, extruded aluminum door frame with optical assembly. Fully enclosed spring-loaded cam latches.
- SHIELDING – Clear acrylic underlay, .060″ thick.
- 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 >72,000 hours per IES TM-21. 50/60 Hz constant current driver.
- MOUNTING – NEMA Type “G” 15/16″ or 1″, “NFG” and “SG” 9/16″ grid installations. Factory-installed earthquake clips provided. Flange installation available, shipped separately: see page 4 for DRYWALL KIT (DFK) OPTIONS.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
  - 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: CMR 4AERN G - L52/835 - CA - OPTIONS - DRV - UNV

SERIES	STYLE	CEILING TYPE [1]	LUMENS [2]	CRI	CCT
CMR	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	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K

SHIELDING

CA Clear acrylic underlay
PC Clear polycarbonate underlay

OPTIONS [3]

See page 4 for LOW-VOLTAGE CONTROLLER OPTIONS.
See page 4 for DRYWALL KIT (DFK) OPTIONS.

EM/10W 10-watt emergency battery [4]
AN Amber night light, 260 lumens
CP Chicago Plenum (CCEA)

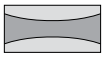
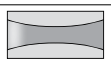
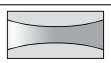
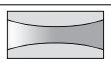
DRIVER [5]

DIM Driver with external 0-10V dimming wires
DIM1 1% Driver with external 0-10V dimming wires
DRV Driver without external dimming wires
DIM LINE Line voltage dimming driver [6]

VOLTAGE

120 120V
277 277V
UNV 120-277V
347 347V [7]

CONFIGURATIONS [8]

STYLE	CONFIGURATION	LUMENS			
		AMBIENT	EXAM	READING	NIGHT
2AE		**L17** 1,700 **L33** 3,300	5,300	—	—
2AEN		**L17** 1,700 **L33** 3,300	5,300	—	300
4AE		**L33** 3,300 **L66** 6,600	9,300	—	—
4AEN		**L33** 3,300 **L66** 6,600	9,300	—	300
4AER		**L26** 2,600 **L52** 5,200	7,300	1,500	—
4AERN		**L26** 2,600 **L52** 5,200	7,300	1,500	300

NOTES

1. See page 4 for DRYWALL KIT (DFK) OPTIONS.
2. Lumen output based on 80 CRI/3500K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
3. See page 4 for GASKETING DETAILS.
4. Ambient compartment only.
5. Additional drivers available upon request, consult factory.
6. TRIAC and ELV compatible, 120V only
7. Not available with EM batteries, AN, or low-voltage controller Options.
8. See page 3 for STYLE CONFIGURATION DETAILS. For additional lumen packages or configurations, consult factory.

CMR LED
Contour Multi-Function Recessed

FIXTURE PERFORMANCE DATA

	STYLE	LUMEN PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	SYSTEM TOTALS: LUMEN PACKAGE	SYSTEM TOTALS: DELIVERED LUMENS	SYSTEM TOTALS: WATTAGE	SYSTEM TOTALS: EFFICACY (lm/W)	UNIFIED GLARE RATING (UGR): CROSSWISE	UNIFIED GLARE RATING (UGR): ENDWISE
2x2	A	L17	1707	13.8	124	AE L17	7073	63.9	111	17.5	19.6
		L33	3309	25.3	131	AE L33	8675	75.5	115	19.8	21.9
	E	–	5366	50.2	107	AEN L17	7380	66.7	111	21.6	18.9
	N	–	307	2.7	112	AEN L33	8982	78.2	115	11.1	7.7
2x4	A	L33	3350	24.6	136	AE L33	12682	108.6	117	17.1	19.2
		L66	6638	49.9	133	AE L66	15970	133.9	119	19.5	21.6
	E	–	9332	84.0	111	AEN L33	12989	111.4	117	20.7	20.3
	N	–	307	2.7	112	AEN L66	16277	136.6	119	13.7	10.4
	A	L26	2617	19.2	136	AER L26	11466	113.8	101	17.1	19.2
		L52	5316	39.8	134	AER L52	14165	134.4	105	17.1	19.2
	E	–	7340	65.4	112	AERN L26	11793	116.5	101	20.7	20.3
	R	–	1509	29.2	52	AERN L52	14472	137.1	106	13.0	14.2
	N	–	307	2.7	114					13.7	10.4

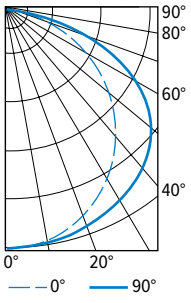
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

MULTIPLIER TABLE

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

PHOTOMETRY

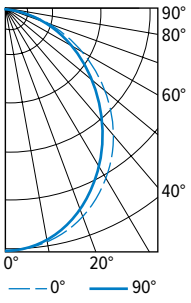
CMR4AERNG-L52/835-CA (Ambient Only) Total Luminaire Output: 5316 lumens; 39.8 Watts | Efficacy: 134 lm/W | 80 CRI; 3500 CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	HORIZONTAL ANGLE 45°	HORIZONTAL ANGLE 90°	ZONAL LUMENS
	0	1772	1772	1772	
	5	1766	1764	1767	168
	15	1687	1709	1733	483
	25	1539	1603	1664	739
	35	1338	1452	1577	910
	45	1093	1264	1437	975
	55	821	1032	1216	914
	65	527	743	865	708
	75	234	369	404	366
	85	31	32	23	54
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2300	43
	0 - 60	4189	79
	0 - 90	5316	100
	0 - 180	5316	100

CMR4AERNG-L52/835-CA (Exam Only) Total Luminaire Output: 7340 lumens; 65.4 Watts | Efficacy: 112 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	HORIZONTAL ANGLE 45°	HORIZONTAL ANGLE 90°	ZONAL LUMENS
	0	3069	3069	3069	
	5	3056	3048	3053	289
	15	2916	2880	2861	811
	25	2648	2572	2517	1185
	35	2275	2168	2083	1358
	45	1829	1717	1622	1328
	55	1349	1252	1176	1124
	65	852	790	750	786
	75	372	357	346	382
	85	49	62	62	76
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	3643	50
	0 - 60	6095	83
	0 - 90	7340	100
	0 - 180	7340	100

PHOTOMETRY CONTINUED ON NEXT PAGE

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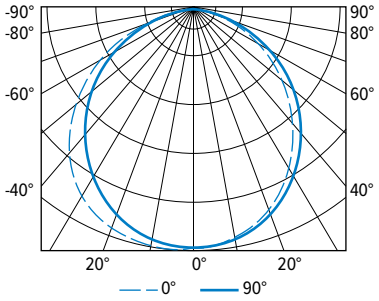
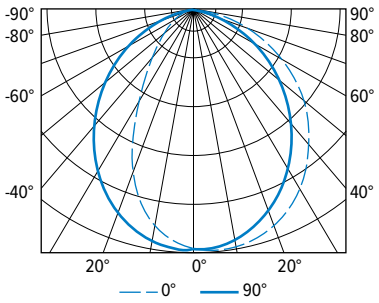
CMR4AERNG-L52/835-CA (Reading Only) Total Luminaire Output: 1509 lumens; 29.2 Watts | Efficacy: 52 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	135°	180°	ZONAL LUMENS
	0	577	577	577	577	577	
	5	574	573	575	574	583	55
	15	543	543	550	560	575	156
	25	486	490	502	526	549	234
	35	407	415	433	470	496	277
	45	321	329	352	396	415	279
	55	232	239	262	302	314	241
	65	142	148	167	196	204	170
	75	62	63	74	91	92	82
	85	9	8	10	14	10	15
	90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	721	48
	0 - 60	1241	82
	0 - 90	1509	100
	0 - 180	1509	100

CMR4AERNG-L52/835-CA (Night Only) Total Luminaire Output: 307 lumens; 2.7 Watts | Efficacy: 114 lm/W | 80 CRI; 3500K CCT

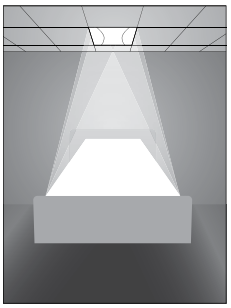


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	135°	180°	ZONAL LUMENS
	0	150	150	150	150	150	
	5	152	151	150	147	145	14
	15	149	146	142	133	123	39
	25	138	134	126	108	83	55
	35	121	115	106	76	46	59
	45	100	92	82	46	27	54
	55	76	67	58	26	17	44
	65	50	41	34	13	9	28
	75	25	16	12	5	3	12
	85	6	1	1	1	0	2
	90	0	0	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	167	54
	0 - 60	265	86
	0 - 90	307	100
	0 - 180	307	100

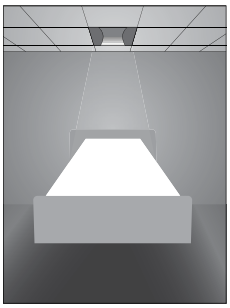
FOOTCANDLE ESTIMATOR & DISTRIBUTION

4AE – AMBIENT & EXAM ON



120	140	148	140	121
125	144	153	144	125
121	138	145	138	121
123	139	145	139	122
118	133	138	134	120
105	117	122	118	106
88	98	101	98	89
70	77	79	77	71
59	63	66	64	61

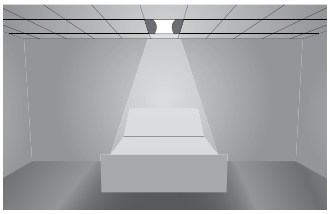
4AER – READING ON

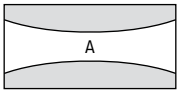


13	15	16	15	13
13	15	16	15	13
13	14	15	14	12
12	14	15	14	12
12	13	14	13	12
10	11	12	12	10
9	9	10	10	9
7	7	8	7	7
6	6	6	6	6

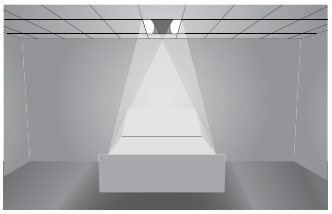
STYLE CONFIGURATION DETAILS

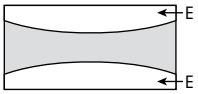
AMBIENT (A)



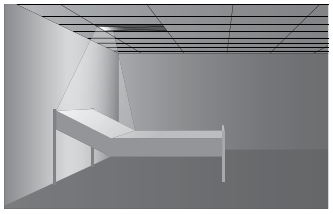


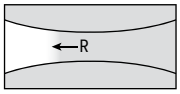
EXAM (E)



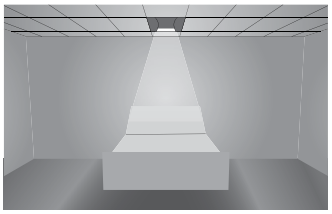


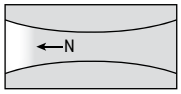
READING (R)





NIGHT (N)

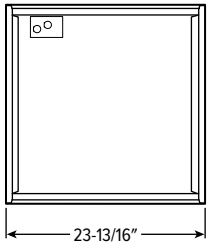




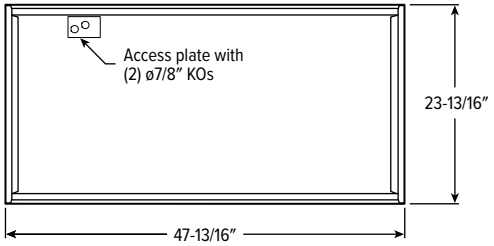
CMR LED
Contour Multi-Function Recessed

FIXTURE DETAILS

2x2 BACK VIEW



2x4 BACK VIEW

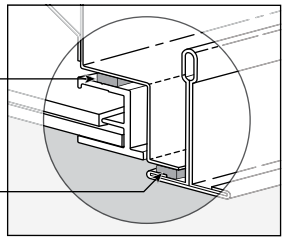


GASKETING DETAILS

T-BAR

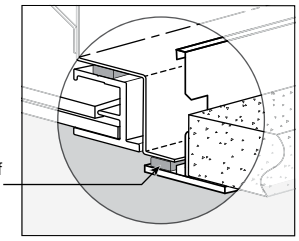
Door frame gasketing factory-installed between door frame and luminaire housing prevents light leak and reduces dust ingress.

Housing gasketing (supplied with fixture) 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

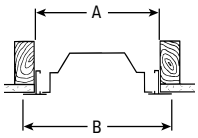
ORDERING INFO

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

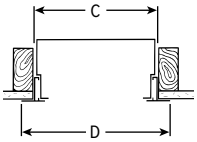
INSTALLATION DIMENSIONS

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

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]	**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]		

120V–277V only.

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.