



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDBAERX-HET-L27-840-A AMBIENT ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19082.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 4-MAY-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMINAIRE] 2-56 LED 2x4' 3 APERATURE MEDICAL BED LUMINAIRE

[MORE] AMBIENT SECTION DUAL FROSTED ACRYLIC RIBBED LENSES w/WHITE

[MORE] REFL & CLEAR ACRYLIC LENS

[LUMCAT] MDBAERx-HET-L27-840-A-AF12125-FCHA118-AMBIENT ONLY

[_SEARCH_APPLICATION] Indoor, Healthcare, Direct

[_SEARCH_MOUNTING] Recessed

[_SEARCH_SOURCETYPE] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2549
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.75 ft
Luminous Width (90-270)	1.69 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3234	3457	3500
55	2648	2968	2891
65	2097	2399	1969
75	1318	1403	1010
85	550	572	481

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	1097.440	1097.440	1097.440	1097.440	1097.440	1097.440	1097.440	1097.440	1097.440
5	1117.723	1117.175	1108.952	1105.115	1102.922	1098.537	1095.796	1090.862	1087.025
10	1089.218	1089.218	1088.670	1089.766	1080.995	1073.321	1061.809	1054.135	1050.298
15	1062.906	1063.454	1065.646	1063.454	1056.327	1042.623	1027.274	1014.666	1008.088
20	1025.630	1027.822	1032.208	1031.112	1022.889	1003.703	980.132	959.301	949.982
25	951.627	956.560	963.686	965.879	958.753	938.470	909.417	885.298	873.238
30	882.009	888.587	899.550	905.032	895.713	870.497	834.318	803.072	789.368
35	819.517	828.288	844.733	852.956	846.378	816.228	776.212	740.580	723.039
40	715.364	727.424	748.255	759.766	752.640	721.943	681.926	640.813	621.079
45	628.205	645.198	671.511	684.667	679.733	647.939	604.086	559.684	537.757
50	519.119	536.112	566.262	578.870	571.195	544.883	504.866	461.561	438.538
55	417.159	436.893	467.591	474.169	455.531	441.827	409.484	365.631	345.897
60	324.518	342.059	370.016	353.571	331.644	328.903	320.132	282.309	263.123
65	243.388	262.574	278.471	250.515	228.588	230.780	237.358	209.402	192.408
70	163.903	178.704	182.541	153.488	138.139	141.428	151.844	138.688	125.531
75	93.737	103.605	99.767	81.678	71.811	74.003	81.678	77.292	67.973
80	44.402	48.787	44.950	36.728	33.987	33.987	36.179	34.535	30.698
85	13.156	13.704	13.704	11.512	11.512	10.963	10.963	9.319	8.771
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	399.21	N.A.	15.70
0-30	831.04	N.A.	32.60
0-40	1331.83	N.A.	52.20
0-60	2200.18	N.A.	86.30
0-80	2532.41	N.A.	99.30
0-90	2549.14	N.A.	100.00
10-90	2444.9	N.A.	95.90
20-40	932.62	N.A.	36.60
20-50	1417.41	N.A.	55.60
40-70	1105.8	N.A.	43.40
60-80	332.22	N.A.	13.00
70-80	94.78	N.A.	3.70
80-90	16.73	N.A.	0.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2549.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.24
10-20	294.97
20-30	431.83
30-40	500.79
40-50	484.79
50-60	383.56
60-70	237.45
70-80	94.78
80-90	16.73
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	74	74	74	74	72	72	72	72	69	69	69	66	66	66	64	64	64	62
1	69	66	64	62	67	65	62	61	62	60	59	60	58	57	57	56	55	54
2	63	58	55	51	61	57	54	51	55	52	50	53	51	48	51	49	47	46
3	58	52	47	43	56	51	47	43	49	45	42	47	44	42	46	43	41	40
4	53	46	41	37	52	45	41	37	44	40	37	43	39	36	41	38	36	34
5	49	42	36	33	48	41	36	32	40	35	32	38	35	32	37	34	31	30
6	46	38	32	29	44	37	32	29	36	32	28	35	31	28	34	31	28	27
7	42	34	29	25	41	34	29	25	33	28	25	32	28	25	31	28	25	24
8	39	31	26	23	39	31	26	23	30	26	23	29	25	23	29	25	22	21
9	37	29	24	21	36	29	24	21	28	24	21	27	23	20	27	23	20	19
10	35	27	22	19	34	26	22	19	26	22	19	25	21	19	25	21	19	17

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UGR TABLE - CORRECTED

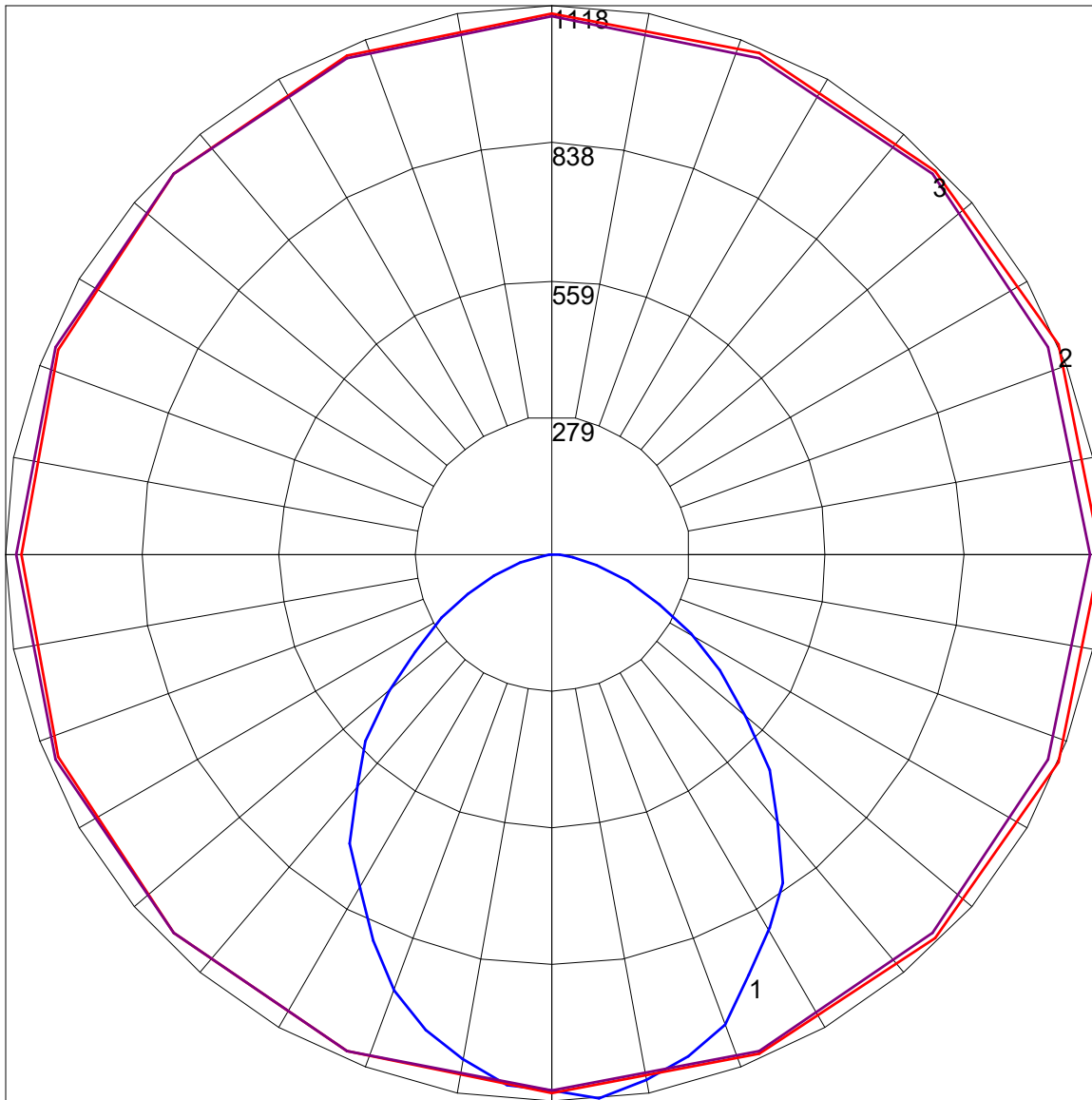
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.0	18.5	17.3	18.8	19.1	17.2	18.7	17.6	19.0	19.3
	3H	18.2	19.6	18.6	19.9	20.3	18.1	19.5	18.5	19.8	20.2
	4H	18.6	19.9	19.0	20.2	20.6	18.3	19.6	18.7	19.9	20.3
	6H	18.8	19.9	19.2	20.3	20.7	18.4	19.6	18.8	19.9	20.3
	8H	18.8	19.9	19.2	20.3	20.7	18.4	19.5	18.8	19.9	20.3
	12H	18.8	19.8	19.2	20.2	20.7	18.4	19.5	18.8	19.8	20.3
4H	2H	17.6	18.9	18.0	19.2	19.6	17.7	18.9	18.1	19.3	19.7
	3H	19.0	20.1	19.4	20.5	20.9	18.7	19.8	19.1	20.2	20.6
	4H	19.4	20.4	19.9	20.8	21.2	19.0	19.9	19.4	20.4	20.8
	6H	19.7	20.5	20.1	20.9	21.4	19.1	19.9	19.6	20.4	20.8
	8H	19.7	20.5	20.2	20.9	21.4	19.1	19.9	19.6	20.3	20.8
	12H	19.7	20.4	20.2	20.9	21.4	19.1	19.8	19.6	20.3	20.8
8H	4H	19.6	20.3	20.0	20.8	21.2	19.1	19.9	19.6	20.3	20.8
	6H	19.8	20.5	20.3	21.0	21.4	19.3	19.9	19.8	20.4	20.9
	8H	19.9	20.5	20.4	21.0	21.5	19.3	19.9	19.8	20.4	20.9
	12H	20.0	20.5	20.5	20.9	21.5	19.3	19.8	19.8	20.3	20.9
12H	4H	19.5	20.2	20.0	20.7	21.2	19.1	19.8	19.6	20.3	20.7
	6H	19.8	20.4	20.4	20.9	21.4	19.3	19.8	19.8	20.3	20.8
	8H	19.9	20.4	20.5	20.9	21.5	19.3	19.8	19.8	20.3	20.9

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 1117.723 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)
3 - Horizontal Cone Through Vertical Angle (0)