



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDBAERX-DI-L27-840-AD AMBIENT ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19078.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 4-MAY-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-56 LED w/HALF ROUND FROST ACRYLIC LIGHT SHIELDS

[MORE] 2x4' 3 APERATURE MEDICAL LUMINAIRE AMBIENT SECTION w/WHITE

[MORE] REFL & FROSTED ACRYLIC RIBBED LENS w/CLEAR ACRYLIC LENS

[LUMCAT] MBDAERx-DI-L27-840-AD-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	2741
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.75 ft
Luminous Width (90-270)	1.70 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3291	3605	3752
55	2760	3116	3290
65	2259	2640	2769
75	1472	1770	1542
85	598	625	598

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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	1168.716	1168.716	1168.716	1168.716	1168.716	1168.716	1168.716	1168.716	1168.716
5	1162.450	1164.330	1165.583	1165.583	1162.450	1163.703	1153.050	1146.157	1141.143
10	1145.530	1151.170	1154.303	1153.050	1146.783	1138.637	1126.104	1114.197	1104.170
15	1110.437	1118.584	1123.597	1126.104	1118.584	1104.170	1087.877	1070.958	1059.051
20	1056.545	1067.824	1075.971	1081.611	1073.464	1052.158	1026.465	1000.145	981.346
25	970.692	985.106	998.265	1007.665	1002.025	978.212	948.759	919.933	900.507
30	904.267	921.187	940.613	953.773	948.759	917.427	877.947	842.854	819.668
35	822.175	844.734	869.801	886.720	884.840	852.254	807.761	766.402	739.456
40	723.163	747.602	779.562	798.988	800.242	767.029	718.149	672.403	644.831
45	642.951	669.270	704.363	730.683	733.189	696.216	646.084	596.578	565.872
50	532.032	558.978	591.565	621.018	622.271	587.805	540.179	493.806	465.607
55	437.407	462.473	493.806	521.379	521.379	486.286	442.420	401.061	375.994
60	342.155	363.461	392.914	411.087	411.087	381.008	344.035	308.942	288.262
65	263.823	283.249	308.315	323.355	323.355	299.542	263.823	233.743	216.197
70	179.851	194.890	213.690	219.330	215.570	201.784	181.104	156.038	141.625
75	105.278	115.932	126.585	118.438	110.292	109.665	105.278	89.612	79.586
80	49.506	56.399	56.399	51.386	47.626	45.119	46.373	40.106	35.719
85	14.413	15.040	15.040	15.040	14.413	12.533	12.533	10.653	10.027
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	420.59	N.A.	15.30
0-30	870.52	N.A.	31.80
0-40	1391.5	N.A.	50.80
0-60	2320.85	N.A.	84.70
0-80	2720.56	N.A.	99.30
0-90	2741.00	N.A.	100.00
10-90	2630.98	N.A.	96.00
20-40	970.92	N.A.	35.40
20-50	1483.52	N.A.	54.10
40-70	1208.32	N.A.	44.10
60-80	399.71	N.A.	14.60
70-80	120.74	N.A.	4.40
80-90	20.44	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	2741.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.02
10-20	310.56
20-30	449.94
30-40	520.98
40-50	512.60
50-60	416.75
60-70	278.97
70-80	120.74
80-90	20.44
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	68	66	63	61	67	64	62	60	62	60	58	59	58	57	57	56	55	54
2	63	58	54	51	61	57	53	50	55	52	49	53	50	48	51	49	47	46
3	57	51	47	43	56	50	46	42	49	45	42	47	44	41	45	43	40	39
4	53	46	41	37	51	45	40	36	43	39	36	42	38	35	41	38	35	34
5	49	41	36	32	47	40	35	32	39	35	31	38	34	31	37	33	31	29
6	45	37	32	28	44	37	32	28	36	31	28	34	31	27	34	30	27	26
7	42	34	29	25	41	33	28	25	32	28	25	32	28	24	31	27	24	23
8	39	31	26	22	38	31	26	22	30	25	22	29	25	22	28	25	22	21
9	37	29	24	20	36	28	23	20	27	23	20	27	23	20	26	23	20	19
10	34	26	22	18	34	26	21	18	25	21	18	25	21	18	24	21	18	17

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UGR TABLE - CORRECTED

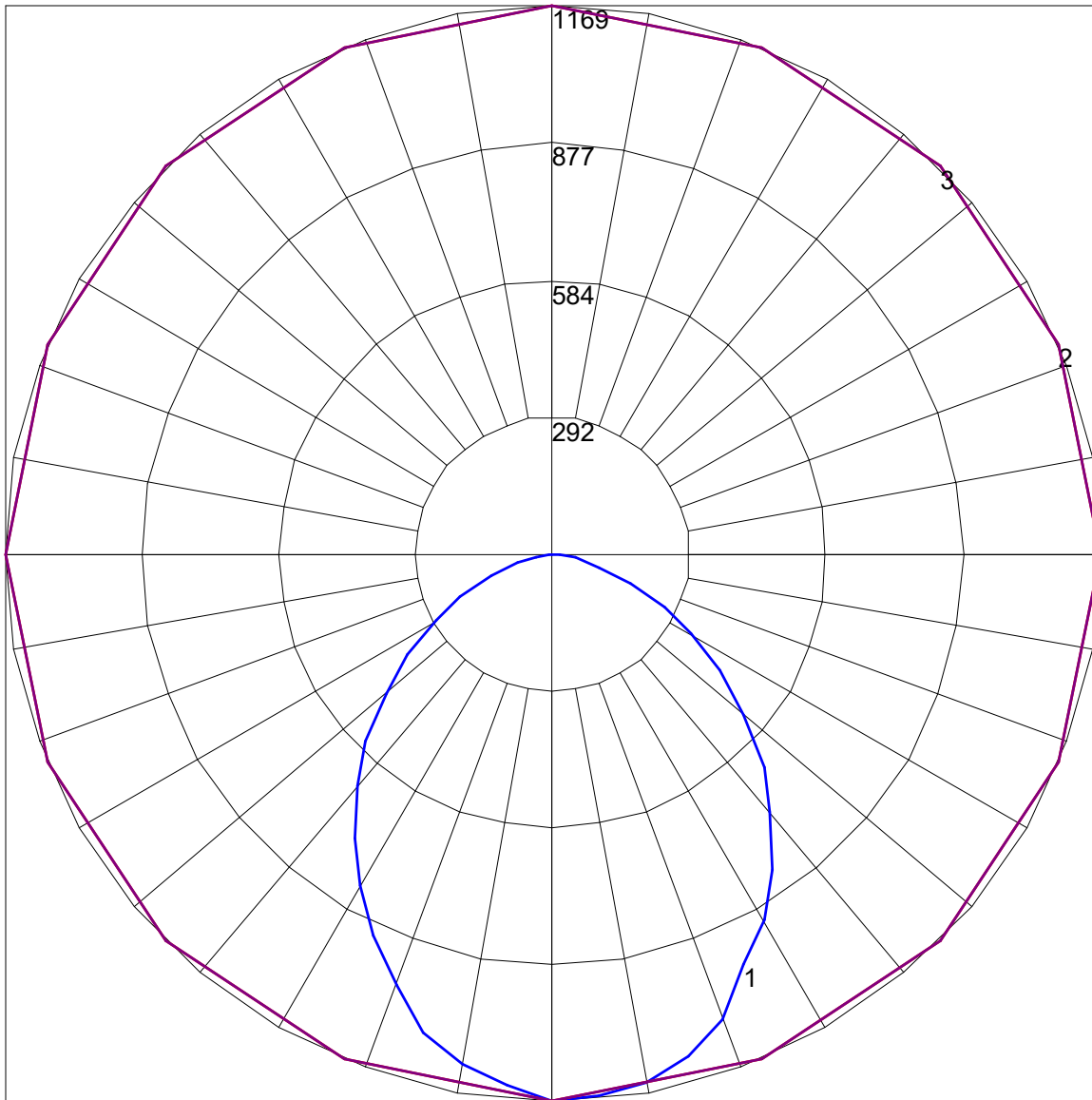
Reflectances

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	18.6	17.4	18.9	19.2	17.7	19.3	18.1	19.6	19.9
	3H	18.4	19.8	18.7	20.1	20.4	19.2	20.6	19.5	20.9	21.2
	4H	18.7	20.0	19.1	20.4	20.8	19.5	20.8	19.9	21.1	21.5
	6H	18.9	20.1	19.3	20.5	20.9	19.6	20.8	20.0	21.2	21.6
	8H	18.9	20.1	19.4	20.5	20.9	19.6	20.8	20.0	21.2	21.6
	12H	19.0	20.0	19.4	20.4	20.9	19.6	20.7	20.1	21.1	21.5
4H	2H	17.7	19.0	18.1	19.3	19.7	18.2	19.5	18.6	19.8	20.2
	3H	19.2	20.3	19.6	20.7	21.1	19.8	20.9	20.2	21.2	21.7
	4H	19.6	20.6	20.1	21.0	21.5	20.2	21.1	20.6	21.6	22.0
	6H	19.9	20.8	20.4	21.2	21.7	20.4	21.2	20.8	21.6	22.1
	8H	20.0	20.7	20.4	21.2	21.7	20.4	21.2	20.8	21.6	22.1
	12H	20.0	20.7	20.5	21.2	21.6	20.4	21.1	20.9	21.6	22.0
8H	4H	19.9	20.6	20.3	21.1	21.6	20.3	21.1	20.7	21.5	22.0
	6H	20.2	20.8	20.7	21.3	21.8	20.5	21.2	21.0	21.7	22.1
	8H	20.3	20.8	20.8	21.3	21.8	20.6	21.2	21.1	21.7	22.1
	12H	20.3	20.8	20.8	21.3	21.9	20.6	21.1	21.1	21.6	22.2
12H	4H	19.9	20.6	20.3	21.0	21.5	20.3	21.0	20.8	21.5	21.9
	6H	20.2	20.8	20.7	21.2	21.8	20.5	21.1	21.0	21.6	22.1
	8H	20.3	20.8	20.8	21.3	21.9	20.6	21.1	21.1	21.6	22.2

Maximum UGR = 22.2

POLAR GRAPH



Maximum Candela = 1168.716 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)
3 - Horizontal Cone Through Vertical Angle (0)