



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDBAERX-DI-L44-840-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-L44-840-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	4403
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	33.9
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	5286	5791	6028
55	4433	5005	5284
65	3629	4241	4448
75	2365	2843	2477
85	961	1003	961

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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	1877.365	1877.365	1877.365	1877.365	1877.365	1877.365	1877.365	1877.365	1877.365
5	1867.299	1870.318	1872.332	1872.332	1867.299	1869.312	1852.199	1841.126	1833.073
10	1840.120	1849.179	1854.212	1852.199	1842.133	1829.047	1808.914	1789.788	1773.682
15	1783.748	1796.834	1804.887	1808.914	1796.834	1773.682	1747.510	1720.331	1701.205
20	1697.178	1715.297	1728.384	1737.443	1724.357	1690.132	1648.860	1606.581	1576.382
25	1559.270	1582.422	1603.562	1618.661	1609.601	1571.349	1524.038	1477.733	1446.527
30	1452.567	1479.746	1510.952	1532.091	1524.038	1473.706	1410.289	1353.917	1316.672
35	1320.698	1356.937	1397.202	1424.381	1421.361	1369.017	1297.546	1231.108	1187.823
40	1161.651	1200.910	1252.248	1283.453	1285.466	1232.115	1153.598	1080.114	1035.822
45	1032.802	1075.081	1131.452	1173.731	1177.757	1118.366	1037.835	958.312	908.987
50	854.629	897.914	950.259	997.570	999.584	944.219	867.715	793.224	747.926
55	702.628	742.893	793.224	837.516	837.516	781.145	710.681	644.243	603.978
60	549.620	583.845	631.157	660.349	660.349	612.031	552.640	496.269	463.050
65	423.791	454.997	495.262	519.421	519.421	481.169	423.791	375.473	347.287
70	288.903	313.062	343.261	352.320	346.281	324.135	290.916	250.651	227.498
75	169.114	186.227	203.339	190.253	177.167	176.160	169.114	143.948	127.842
80	79.524	90.597	90.597	82.544	76.504	72.477	74.491	64.424	57.378
85	23.152	24.159	24.159	24.159	23.152	20.133	20.133	17.113	16.106
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	675.61	N.A.	15.30
0-30	1398.37	N.A.	31.80
0-40	2235.24	N.A.	50.80
0-60	3728.1	N.A.	84.70
0-80	4370.17	N.A.	99.30
0-90	4403.00	N.A.	100.00
10-90	4226.27	N.A.	96.00
20-40	1559.63	N.A.	35.40
20-50	2383.04	N.A.	54.10
40-70	1940.98	N.A.	44.10
60-80	642.07	N.A.	14.60
70-80	193.95	N.A.	4.40
80-90	32.83	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	4403.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	176.74
10-20	498.87
20-30	722.76
30-40	836.87
40-50	823.41
50-60	669.45
60-70	448.13
70-80	193.95
80-90	32.83
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	120	120	120	120	117	117	117	117	112	112	112	107	107	107	103	103	103	101
1	111	106	102	99	108	104	101	97	100	97	94	96	94	91	92	90	89	87
2	101	94	87	82	99	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	75	69	91	81	74	69	79	72	67	76	71	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	46	38	33	44	37	32	43	37	32	42	36	32	30
10	56	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28

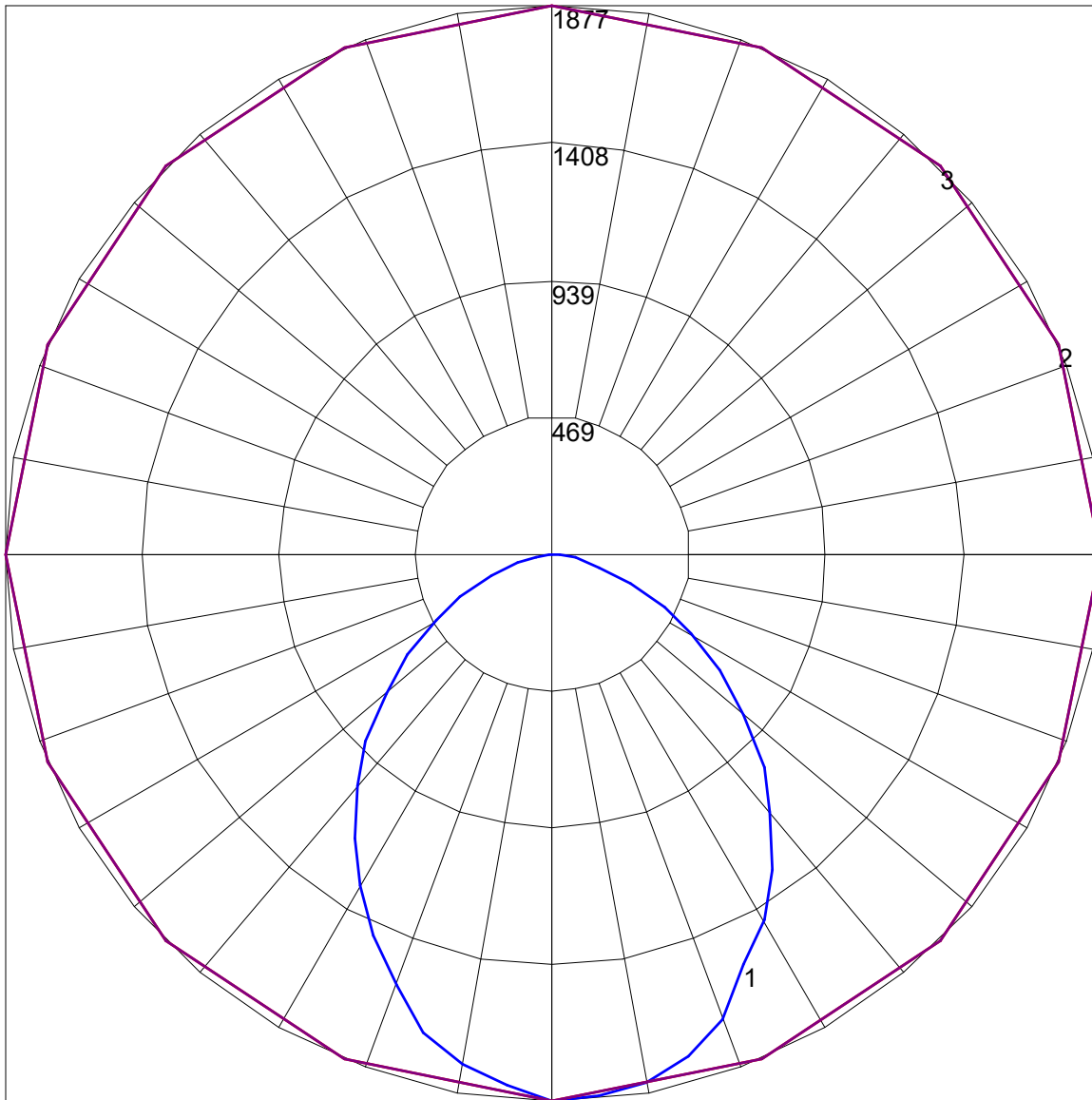
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UGR TABLE - CORRECTED

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 = 1877.365 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)