



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDBAEX-DI-L44-840-AD-A12125 EXAM_.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] 5-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 & EXAM SECTION WITH A12125 LENS

[LUMCAT] MBDAEx-DI-L44/840-AD/AF12125-FA-DIM-UNV

[_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	12240
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	124
Total Luminaire Watts	98.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.22
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	13537	14310	15555
55	10835	11637	12862
65	8458	9127	10138
75	5793	6017	6059
85	2784	2535	2784

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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	5757.234	5757.234	5757.234	5757.234	5757.234	5757.234	5757.234	5757.234	5757.234
5	5627.139	5627.139	5632.142	5640.148	5655.159	5675.174	5673.172	5677.175	5674.173
10	5466.020	5475.027	5502.047	5528.066	5558.088	5595.115	5610.126	5620.133	5613.128
15	5200.825	5220.840	5261.870	5315.910	5360.943	5403.974	5430.994	5450.008	5446.005
20	4880.589	4911.612	4963.651	5040.707	5104.754	5151.789	5185.814	5193.820	5179.810
25	4444.269	4480.295	4556.351	4644.416	4722.473	4765.505	4791.524	4782.517	4764.504
30	3995.939	4037.970	4139.044	4255.129	4361.207	4412.245	4428.257	4409.243	4387.227
35	3563.621	3612.657	3725.740	3846.829	3966.917	4015.954	4001.943	3968.919	3938.897
40	3096.277	3141.310	3265.402	3397.499	3513.584	3554.614	3511.583	3467.550	3440.530
45	2644.945	2686.976	2796.056	2939.162	3039.235	3051.244	3001.207	2946.167	2917.145
50	2158.588	2201.619	2294.688	2431.788	2515.850	2517.852	2474.820	2415.777	2394.761
55	1717.263	1757.292	1844.356	1961.443	2038.499	2028.492	1984.459	1936.424	1920.412
60	1312.966	1346.991	1418.043	1495.100	1572.156	1564.150	1515.114	1484.091	1475.085
65	987.726	1016.748	1065.784	1124.827	1183.871	1174.864	1128.830	1108.815	1104.813
70	689.507	697.513	723.532	754.555	783.576	787.579	767.565	765.563	759.559
75	414.305	420.309	430.316	426.314	433.319	449.330	453.333	459.338	463.341
80	204.150	211.155	206.152	203.149	203.149	206.152	225.166	231.170	233.171
85	67.049	68.050	61.045	61.045	67.049	66.049	66.049	72.053	71.052
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	2042.55	N.A.	16.70
0-30	4196.57	N.A.	34.30
0-40	6605.15	N.A.	54.00
0-60	10563.31	N.A.	86.30
0-80	12146.01	N.A.	99.20
0-90	12240.08	N.A.	100.00
10-90	11702.74	N.A.	95.60
20-40	4562.6	N.A.	37.30
20-50	6798.39	N.A.	55.50
40-70	5055.51	N.A.	41.30
60-80	1582.7	N.A.	12.90
70-80	485.35	N.A.	4.00
80-90	94.07	N.A.	0.80
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	12240.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	537.34
10-20	1505.21
20-30	2154.02
30-40	2408.58
40-50	2235.78
50-60	1722.38
60-70	1097.35
70-80	485.35
80-90	94.07
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	331	331	331	331	323	323	323	323	309	309	309	296	296	296	284	284	284	278
1	306	295	284	275	299	289	279	271	277	269	262	266	260	254	256	251	247	241
2	282	261	244	230	275	256	240	227	246	233	222	237	227	217	229	220	212	207
3	259	232	212	195	252	228	209	194	220	204	190	213	199	187	206	194	184	178
4	239	208	186	169	233	205	184	167	198	180	165	191	176	163	186	172	161	155
5	221	188	164	147	215	185	163	147	179	160	145	174	157	144	169	154	142	137
6	205	170	147	130	200	168	146	130	163	143	129	158	141	128	154	139	126	121
7	191	155	132	116	186	153	131	116	149	129	115	145	127	114	141	126	114	108
8	178	142	120	105	174	141	119	104	137	118	104	134	116	103	130	115	103	98
9	167	131	110	95	163	130	109	95	127	108	94	124	106	94	121	105	93	89
10	157	122	101	87	153	120	100	87	118	99	86	115	98	86	113	97	85	81

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UGR TABLE - CORRECTED

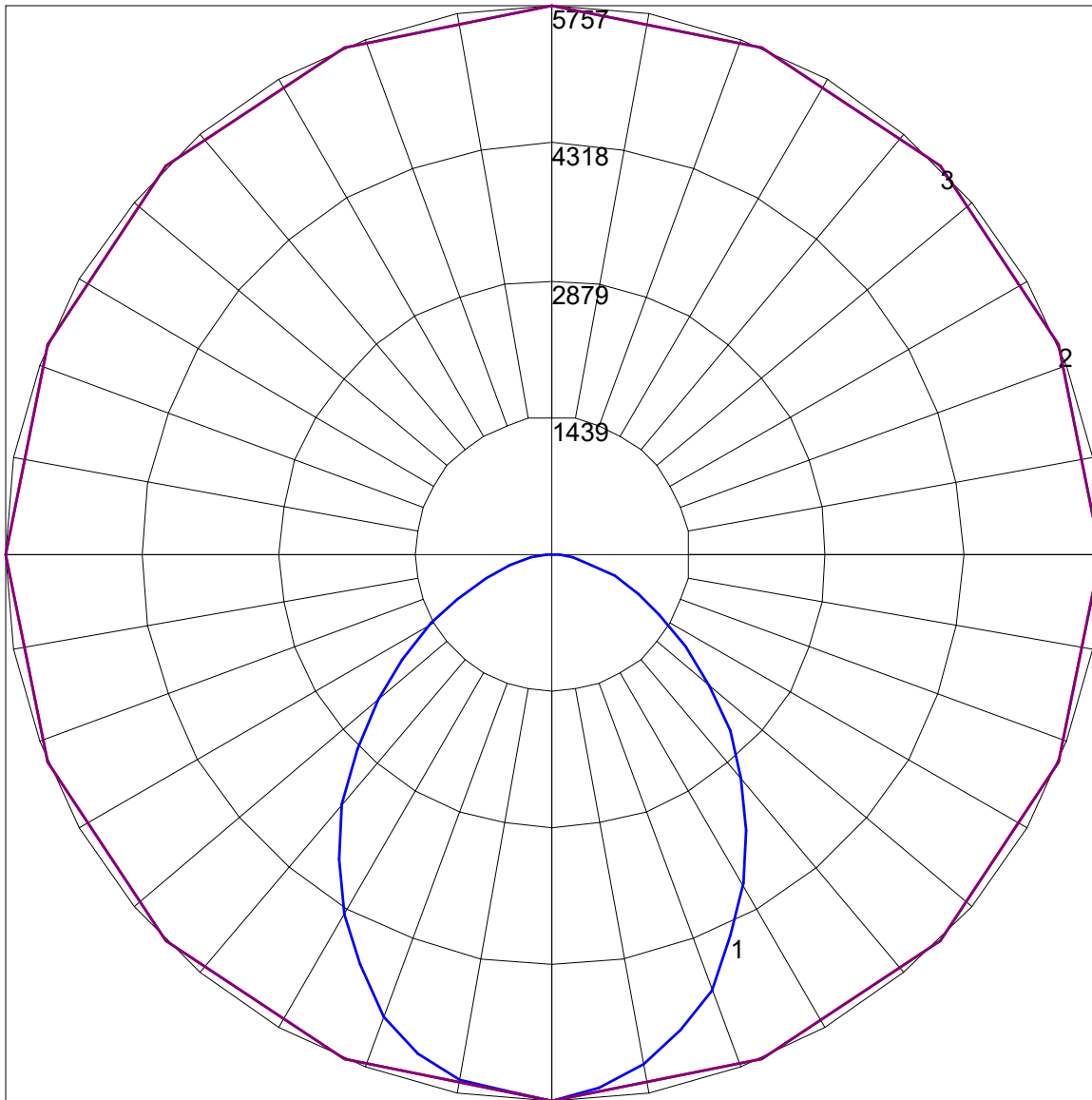
Reflectances

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 = 5757.234 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)