



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDBAERNX-DI-L44-840-AD-A12125-FA-DIM-UNV ALL ON\_.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] 6-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, READ

[LUMCAT] MBDAERNx-DI-L44/840-AD/AF12125-FA-DIM-UNV all on

[\_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	14526
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	125.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
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	19081	18191	17836
55	16452	16008	14904
65	9796	12920	11879
75	6128	6761	7210
85	3047	2671	3214

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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>
<b>0</b>	6491.517	6491.517	6491.517	6491.517	6491.517	6491.517	6491.517	6491.517	6491.517
<b>5</b>	6364.863	6364.863	6377.931	6388.988	6405.071	6427.185	6428.190	6431.206	6427.185
<b>10</b>	6185.939	6196.996	6222.126	6252.282	6286.458	6324.656	6339.733	6352.801	6345.765
<b>15</b>	5933.637	5950.725	5985.907	6034.156	6086.426	6131.659	6163.825	6184.934	6186.945
<b>20</b>	5632.080	5647.158	5671.282	5730.588	5798.941	5844.175	5890.413	5908.507	5897.450
<b>25</b>	5221.962	5231.009	5252.118	5302.377	5378.772	5428.026	5467.228	5472.254	5459.187
<b>30</b>	4845.016	4831.948	4832.954	4876.177	4972.675	5025.950	5061.132	5063.142	5051.080
<b>35</b>	4553.511	4519.334	4461.033	4463.044	4559.542	4615.833	4629.905	4615.833	4597.739
<b>40</b>	4154.450	4103.186	3994.625	3947.381	4027.796	4072.025	4057.952	4043.879	4025.786
<b>45</b>	3728.250	3681.006	3554.352	3453.833	3484.994	3498.061	3479.968	3457.854	3442.776
<b>50</b>	3178.411	3142.224	3043.715	2911.030	2909.020	2907.010	2894.947	2861.776	2855.745
<b>55</b>	2607.463	2603.442	2537.100	2400.394	2362.197	2348.124	2334.051	2306.911	2297.864
<b>60</b>	1789.238	1954.089	2011.385	1885.736	1838.493	1823.415	1794.264	1776.171	1772.150
<b>65</b>	1143.906	1221.306	1508.790	1455.515	1387.162	1374.095	1332.882	1322.830	1323.835
<b>70</b>	762.939	785.053	889.593	998.154	924.775	925.780	907.687	909.697	908.692
<b>75</b>	438.263	452.336	483.496	559.891	515.662	529.735	532.751	542.803	549.839
<b>80</b>	220.137	227.173	222.147	242.251	243.256	246.272	265.370	273.412	275.422
<b>85</b>	73.379	71.368	64.332	67.348	77.400	77.400	77.400	85.441	84.436
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MDBAERNX-DI-L44-840-AD-A12125-FA-DIM-UNV ALL ON\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2317.88	N.A.	16.00
0-30	4791.18	N.A.	33.00
0-40	7625.45	N.A.	52.50
0-60	12494.89	N.A.	86.00
0-80	14418.09	N.A.	99.30
0-90	14525.81	N.A.	100.00
10-90	13917.97	N.A.	95.80
20-40	5307.57	N.A.	36.50
20-50	8019.03	N.A.	55.20
40-70	6220.56	N.A.	42.80
60-80	1923.2	N.A.	13.20
70-80	572.09	N.A.	3.90
80-90	107.72	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	14525.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	607.84
10-20	1710.04
20-30	2473.3
30-40	2834.27
40-50	2711.46
50-60	2157.98
60-70	1351.11
70-80	572.09
80-90	107.72
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	141	141	141	141	138	138	138	138	132	132	132	126	126	126	121	121	121	119
1	131	126	121	117	128	123	119	115	118	115	112	113	111	108	109	107	105	103
2	120	111	104	98	117	109	102	97	105	99	94	101	96	92	98	94	90	88
3	110	99	90	83	107	97	89	82	93	86	81	90	84	79	87	82	78	75
4	101	88	79	71	99	87	78	71	84	76	70	81	74	69	79	73	68	66
5	94	79	69	62	91	78	69	62	76	67	61	73	66	60	71	65	60	57
6	87	72	62	55	85	71	61	54	69	60	54	67	59	54	65	58	53	51
7	81	66	56	49	79	65	55	49	63	54	48	61	54	48	60	53	48	45
8	75	60	50	44	74	59	50	44	58	49	43	56	49	43	55	48	43	41
9	71	55	46	40	69	55	46	40	53	45	39	52	44	39	51	44	39	37
10	66	51	42	36	65	51	42	36	49	41	36	48	41	36	47	40	36	34

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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

X=2H	Y=2H	19.5	21.0	19.9	21.3	21.7	20.5	22.0	20.8	22.3	22.6
	3H	20.8	22.1	21.2	22.5	22.8	21.7	23.1	22.1	23.4	23.8
	4H	21.2	22.4	21.6	22.8	23.2	22.0	23.3	22.4	23.7	24.0
	6H	21.4	22.5	21.8	22.9	23.3	22.2	23.4	22.6	23.7	24.1
	8H	21.4	22.5	21.8	22.9	23.3	22.2	23.3	22.6	23.7	24.1
	12H	21.4	22.5	21.8	22.9	23.3	22.2	23.3	22.6	23.7	24.1

### UGR Viewed Endwise

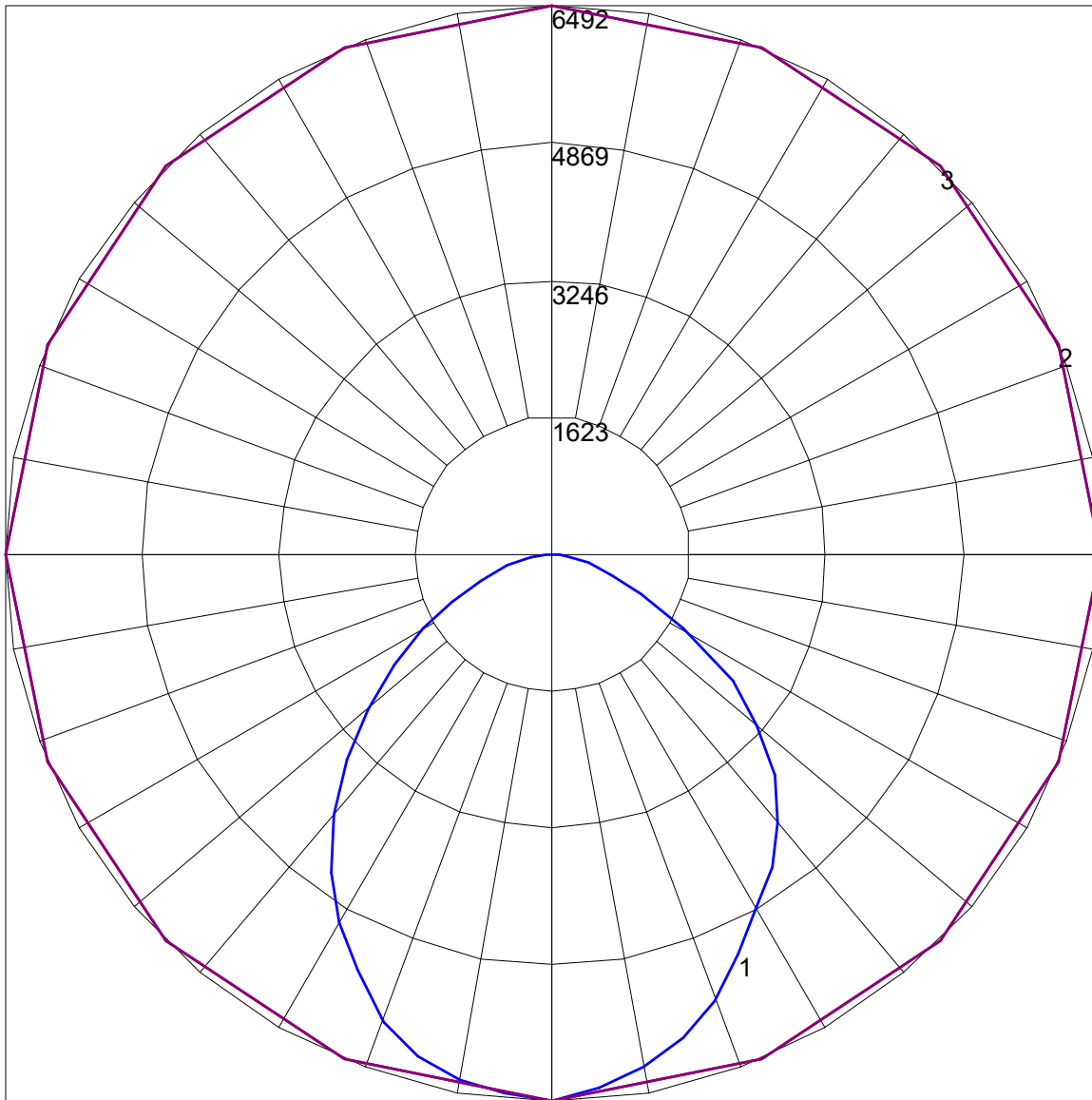
4H	2H	20.0	21.3	20.4	21.7	22.0	20.9	22.1	21.3	22.5	22.9
	3H	21.5	22.6	21.9	23.0	23.4	22.3	23.4	22.7	23.8	24.2
	4H	22.0	22.9	22.4	23.3	23.8	22.7	23.6	23.1	24.1	24.5
	6H	22.2	23.1	22.7	23.5	24.0	22.9	23.7	23.4	24.2	24.6
	8H	22.3	23.1	22.8	23.5	24.0	23.0	23.7	23.4	24.2	24.6
	12H	22.3	23.0	22.8	23.5	24.0	23.0	23.7	23.5	24.1	24.6
8H	4H	22.1	22.9	22.6	23.3	23.8	22.8	23.6	23.3	24.0	24.5
	6H	22.5	23.1	23.0	23.6	24.1	23.1	23.7	23.6	24.2	24.7
	8H	22.6	23.1	23.1	23.6	24.1	23.2	23.7	23.7	24.2	24.7
	12H	22.6	23.1	23.1	23.6	24.2	23.2	23.7	23.7	24.2	24.8
12H	4H	22.1	22.8	22.6	23.3	23.7	22.8	23.5	23.3	24.0	24.4
	6H	22.5	23.0	23.0	23.5	24.0	23.1	23.7	23.6	24.1	24.7
	8H	22.6	23.1	23.1	23.6	24.2	23.2	23.7	23.7	24.2	24.8

Maximum UGR = 24.8

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## POLAR GRAPH



Maximum Candela = 6491.517 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)