



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDBAERNX-HET-L44-840-A-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 & ACRYLIC RIBBED LENS w/CLEAR ACRYLIC LENS & EXAM SECTION WITH A12125 LENS & READING SEC

[LUMCAT] MBDAERNx-HET-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	14218
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
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	18958	17924	17401
55	16243	15744	14241
65	9519	12512	10577
75	5872	6162	6346
85	2963	2584	3020

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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	6376.491	6376.491	6376.491	6376.491	6376.491	6376.491	6376.491	6376.491	6376.491
5	6292.832	6288.940	6286.713	6291.568	6309.093	6322.083	6335.725	6341.814	6339.637
10	6095.411	6097.418	6116.597	6150.462	6180.455	6219.245	6235.796	6255.517	6258.366
15	5857.385	5862.280	5892.895	5933.500	5986.214	6032.326	6065.760	6093.586	6104.048
20	5582.625	5583.156	5601.252	5649.642	5717.642	5765.952	5815.224	5841.827	5845.859
25	5191.484	5185.396	5196.881	5235.521	5309.299	5363.868	5403.300	5415.578	5414.183
30	4809.412	4779.891	4767.472	4798.378	4887.674	4950.348	4990.322	4998.136	5001.115
35	4549.177	4493.093	4421.301	4409.485	4498.179	4557.914	4578.668	4573.382	4570.182
40	4141.525	4070.686	3944.777	3885.092	3951.838	3999.656	3999.335	3992.243	3986.506
45	3704.092	3642.210	3502.067	3380.832	3399.961	3420.926	3412.419	3398.015	3396.771
50	3157.079	3105.229	3003.364	2844.141	2827.750	2838.493	2838.182	2809.494	2811.500
55	2574.406	2562.088	2495.211	2325.265	2257.094	2277.136	2281.169	2249.591	2248.869
60	1760.999	1919.680	1974.791	1793.801	1711.305	1739.984	1755.934	1733.083	1731.237
65	1111.600	1188.678	1461.071	1338.763	1235.202	1263.811	1290.463	1283.512	1285.207
70	737.703	759.560	839.969	892.442	800.487	828.865	860.703	881.618	882.481
75	419.949	432.849	440.704	500.820	453.814	472.402	494.801	522.838	530.883
80	212.016	215.076	203.871	218.707	221.305	228.327	248.920	264.318	267.167
85	71.361	69.244	62.223	61.691	72.725	74.852	74.852	83.238	82.355
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : MDBAERNX-HET-L44-840-A-A12125-FA-DIM-UNV ALL ON_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2283.42	N.A.	16.10
0-30	4727.53	N.A.	33.30
0-40	7529.32	N.A.	53.00
0-60	12300.94	N.A.	86.50
0-80	14115.92	N.A.	99.30
0-90	14217.68	N.A.	100.00
10-90	13619.17	N.A.	95.80
20-40	5245.91	N.A.	36.90
20-50	7912.77	N.A.	55.70
40-70	6056.17	N.A.	42.60
60-80	1814.98	N.A.	12.80
70-80	530.43	N.A.	3.70
80-90	101.76	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	14217.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	598.51
10-20	1684.91
20-30	2444.11
30-40	2801.8
40-50	2666.86
50-60	2104.76
60-70	1284.55
70-80	530.43
80-90	101.76
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	138	138	138	138	135	135	135	135	129	129	129	124	124	124	119	119	119	116
1	128	123	119	115	125	121	117	113	116	112	110	111	109	106	107	105	103	101
2	118	109	102	96	115	107	100	95	103	97	93	99	95	91	96	92	89	86
3	108	97	88	81	105	95	87	81	92	85	79	89	83	78	86	81	77	74
4	100	87	77	70	97	85	76	70	82	75	69	80	73	68	77	72	67	64
5	92	78	68	61	90	77	68	61	74	66	60	72	65	59	70	64	59	57
6	85	71	61	54	83	70	60	54	68	59	53	66	58	53	64	57	52	50
7	79	64	55	48	77	63	54	48	62	53	47	60	53	47	59	52	47	45
8	74	59	50	43	72	58	49	43	57	49	43	55	48	42	54	47	42	40
9	69	54	45	39	68	54	45	39	52	44	39	51	44	39	50	43	38	36
10	65	50	41	36	64	50	41	35	49	41	35	47	40	35	46	40	35	33

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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

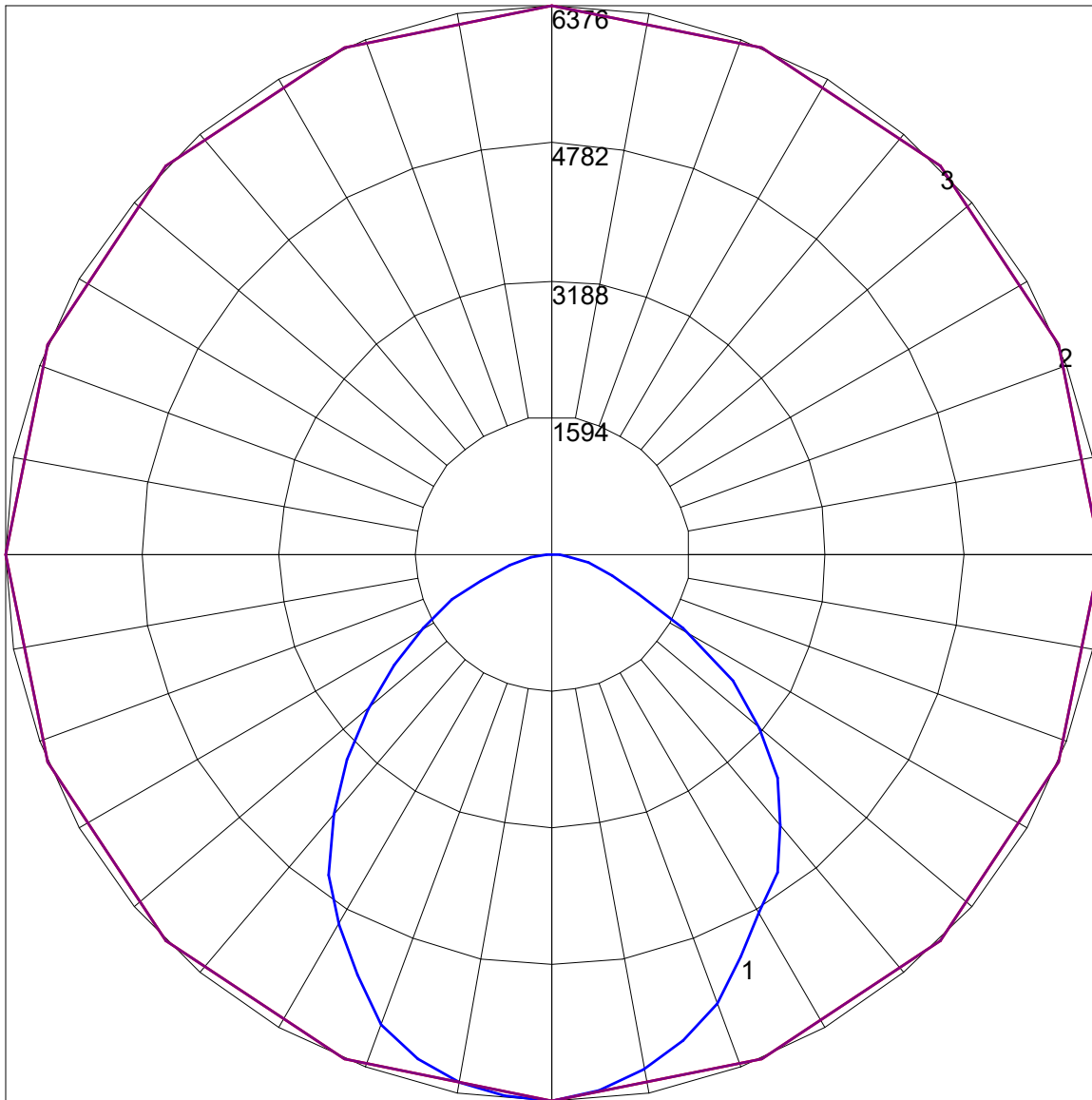
4H	2H	20.0	21.3	20.4	21.7	22.0	20.9	22.1	21.3	22.5	22.9
	3H	21.5	22.6	21.9	23.0	23.4	22.3	23.4	22.7	23.8	24.2
	4H	22.0	22.9	22.4	23.3	23.8	22.7	23.6	23.1	24.1	24.5
	6H	22.2	23.1	22.7	23.5	24.0	22.9	23.7	23.4	24.2	24.6
	8H	22.3	23.1	22.8	23.5	24.0	23.0	23.7	23.4	24.2	24.6
	12H	22.3	23.0	22.8	23.5	24.0	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 = 6376.491 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)