



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDBAERX-HET-L44-840-A AMBIENT ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from BALLABS TEST NO. 19082.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUEDATE] 4-MAY-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMINAIRE] 2-56 LED 2x4' 3 APERATURE MEDICAL BED LUMINAIRE  
 [MORE] AMBIENT SECTION DUAL FROSTED ACRYLIC RIBBED LENSES w/WHITE  
 [MORE] REFL & CLEAR ACRYLIC LENS  
 [LUMCAT] MDBAERx-HET-L44-840-A-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	4095
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	33.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.75 ft
Luminous Width (90-270)	1.69 ft
Luminous Height	0.00 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5196	5554	5622
55	4254	4768	4645
65	3368	3854	3163
75	2118	2254	1623
85	883	920	772

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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>	1763.051	1763.051	1763.051	1763.051	1763.051	1763.051	1763.051	1763.051	1763.051
<b>5</b>	1795.635	1794.755	1781.545	1775.381	1771.858	1764.813	1760.410	1752.484	1746.319
<b>10</b>	1749.842	1749.842	1748.961	1750.722	1736.632	1724.303	1705.810	1693.481	1687.316
<b>15</b>	1707.571	1708.451	1711.974	1708.451	1697.003	1674.987	1650.329	1630.074	1619.506
<b>20</b>	1647.687	1651.210	1658.255	1656.493	1643.284	1612.461	1574.593	1541.129	1526.158
<b>25</b>	1528.800	1536.726	1548.174	1551.697	1540.248	1507.664	1460.990	1422.242	1402.868
<b>30</b>	1416.958	1427.526	1445.139	1453.945	1438.974	1398.464	1340.342	1290.145	1268.129
<b>35</b>	1316.564	1330.655	1357.074	1370.284	1359.716	1311.281	1246.993	1189.752	1161.571
<b>40</b>	1149.242	1168.616	1202.081	1220.574	1209.126	1159.810	1095.522	1029.474	997.771
<b>45</b>	1009.219	1036.519	1078.790	1099.926	1092.000	1040.923	970.471	899.139	863.913
<b>50</b>	833.971	861.271	909.706	929.961	917.632	875.361	811.074	741.503	704.516
<b>55</b>	670.171	701.874	751.190	761.758	731.816	709.800	657.842	587.390	555.687
<b>60</b>	521.342	549.523	594.435	568.016	532.790	528.387	514.297	453.532	422.710
<b>65</b>	391.006	421.829	447.368	402.455	367.229	370.752	381.319	336.406	309.106
<b>70</b>	263.313	287.090	293.255	246.581	221.923	227.206	243.939	222.803	201.668
<b>75</b>	150.590	166.442	160.277	131.216	115.365	118.887	131.216	124.171	109.200
<b>80</b>	71.332	78.377	72.213	59.003	54.600	54.600	58.123	55.481	49.316
<b>85</b>	21.135	22.016	22.016	18.494	18.494	17.613	17.613	14.971	14.090
<b>90</b>	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	641.34	N.A.	15.70
0-30	1335.08	N.A.	32.60
0-40	2139.6	N.A.	52.20
0-60	3534.62	N.A.	86.30
0-80	4068.34	N.A.	99.30
0-90	4095.22	N.A.	100.00
10-90	3927.76	N.A.	95.90
20-40	1498.26	N.A.	36.60
20-50	2277.09	N.A.	55.60
40-70	1776.48	N.A.	43.40
60-80	533.72	N.A.	13.00
70-80	152.26	N.A.	3.70
80-90	26.88	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	4095.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	167.46
10-20	473.88
20-30	693.74
30-40	804.53
40-50	778.82
50-60	616.19
60-70	381.46
70-80	152.26
80-90	26.88
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	105	105	105	105	102	102	102	102	98	98	98	94	94	94	90	90	90	88
1	97	93	90	87	95	91	88	86	88	85	83	84	82	80	81	80	78	76
2	89	83	77	73	87	81	76	72	78	74	70	75	72	69	72	70	67	65
3	82	73	67	61	80	72	66	61	69	64	60	67	63	59	65	61	58	56
4	75	65	58	53	73	64	58	52	62	56	52	60	55	51	58	54	50	49
5	70	59	51	46	68	58	51	46	56	50	45	54	49	45	53	48	44	43
6	64	53	46	41	63	52	45	40	51	45	40	49	44	40	48	43	39	38
7	60	49	41	36	58	48	41	36	46	40	36	45	40	35	44	39	35	33
8	56	44	37	32	54	44	37	32	43	36	32	42	36	32	41	36	32	30
9	52	41	34	29	51	40	34	29	39	33	29	38	33	29	38	32	29	27
10	49	38	31	27	48	37	31	27	37	31	26	36	30	26	35	30	26	25

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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

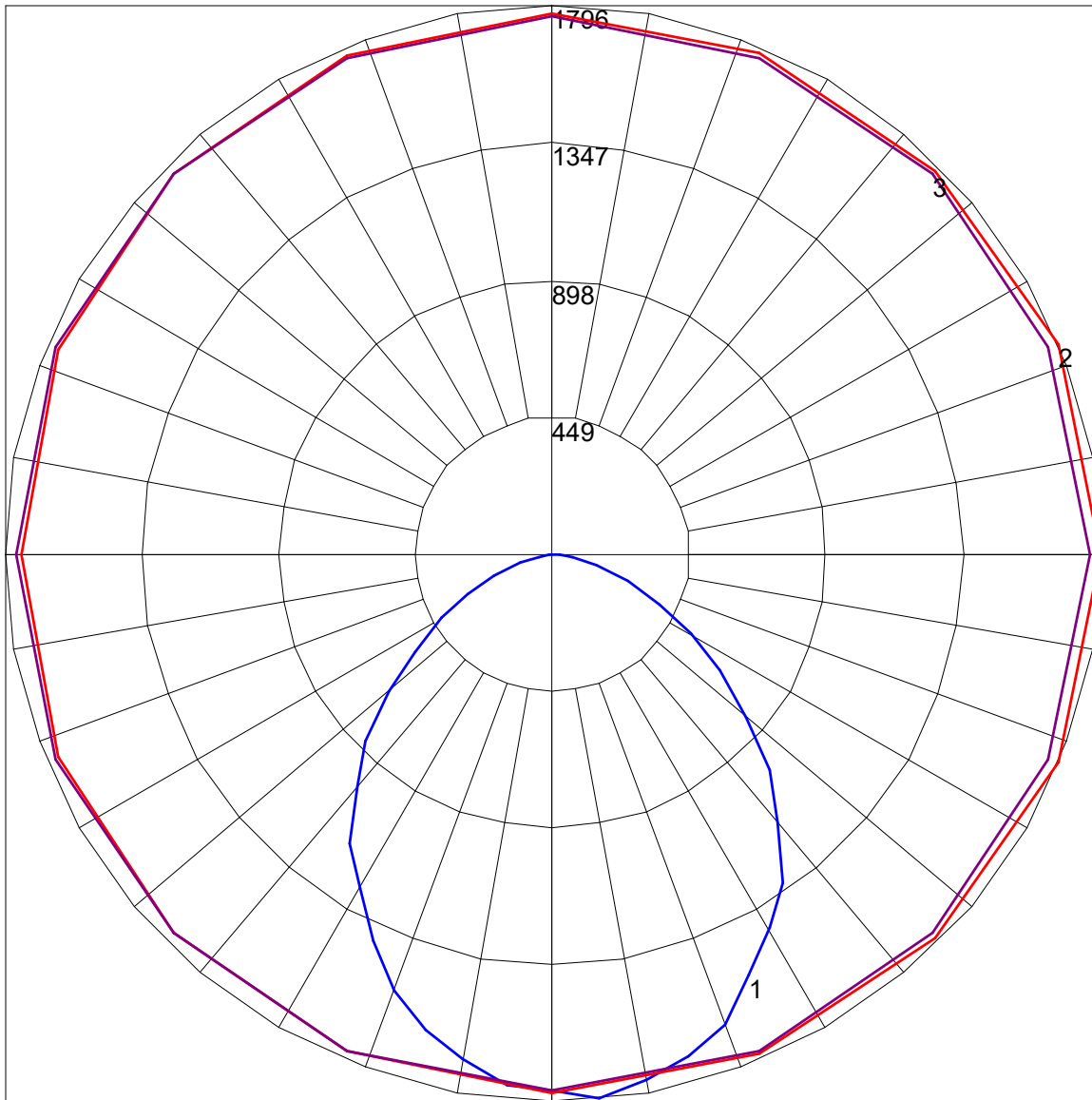
X=2H	Y=2H	17.4	18.9	17.7	19.2	19.5	17.6	19.1	18.0	19.4	19.7
	3H	18.6	20.0	19.0	20.3	20.7	18.5	19.9	18.9	20.2	20.6
	4H	19.0	20.3	19.4	20.6	21.0	18.7	20.0	19.1	20.3	20.7
	6H	19.2	20.3	19.6	20.7	21.1	18.8	20.0	19.2	20.3	20.7
	8H	19.2	20.3	19.6	20.7	21.1	18.8	19.9	19.2	20.3	20.7
	12H	19.2	20.2	19.6	20.6	21.1	18.8	19.9	19.2	20.2	20.7

### UGR Viewed Endwise

4H	2H	18.0	19.3	18.4	19.6	20.0	18.1	19.3	18.5	19.7	20.1
	3H	19.4	20.5	19.8	20.9	21.3	19.1	20.2	19.5	20.6	21.0
	4H	19.8	20.8	20.3	21.2	21.6	19.4	20.3	19.8	20.8	21.2
	6H	20.1	20.9	20.5	21.3	21.8	19.5	20.3	20.0	20.8	21.2
	8H	20.1	20.9	20.6	21.3	21.8	19.5	20.3	20.0	20.7	21.2
	12H	20.1	20.8	20.6	21.3	21.8	19.5	20.2	20.0	20.7	21.2
8H	4H	20.0	20.7	20.4	21.2	21.6	19.5	20.3	20.0	20.7	21.2
	6H	20.2	20.9	20.7	21.4	21.8	19.7	20.3	20.2	20.8	21.3
	8H	20.3	20.9	20.8	21.4	21.9	19.7	20.3	20.2	20.8	21.3
	12H	20.3	20.8	20.8	21.3	21.9	19.7	20.2	20.2	20.7	21.3
12H	4H	19.9	20.6	20.4	21.1	21.6	19.5	20.2	20.0	20.7	21.1
	6H	20.2	20.8	20.8	21.3	21.8	19.7	20.2	20.2	20.7	21.2
	8H	20.3	20.8	20.8	21.3	21.9	19.7	20.2	20.2	20.7	21.3

Maximum UGR = 21.9

POLAR GRAPH



Maximum Candela = 1795.635 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)  
# 3 - Horizontal Cone Through Vertical Angle (0)