



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : MDBAEX-DI-L27-840-AD-A12125-FA-DIM-UNV\_.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-L27/840-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	10580
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	86.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
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	11546	12130	13281
55	9168	9755	10871
65	7090	7527	8461
75	4908	4950	5132
85	2408	2159	2408

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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>	5049	5049	5049	5049	5049	5049	5049	5049	5049
<b>5</b>	4923	4922	4926	4934	4951	4970	4974	4983	4983
<b>10</b>	4772	4778	4803	4829	4863	4905	4928	4945	4944
<b>15</b>	4528	4543	4581	4634	4683	4735	4772	4801	4804
<b>20</b>	4241	4265	4312	4385	4454	4514	4564	4588	4585
<b>25</b>	3856	3884	3952	4034	4115	4173	4216	4225	4219
<b>30</b>	3448	3480	3569	3677	3786	3856	3896	3898	3890
<b>35</b>	3066	3101	3199	3310	3431	3500	3512	3504	3491
<b>40</b>	2658	2689	2793	2914	3029	3090	3076	3060	3050
<b>45</b>	2256	2282	2370	2497	2595	2630	2610	2585	2574
<b>50</b>	1837	1863	1937	2056	2139	2162	2148	2117	2113
<b>55</b>	1453	1477	1546	1646	1723	1734	1716	1693	1693
<b>60</b>	1106	1127	1180	1246	1323	1333	1307	1297	1300
<b>65</b>	828	845	879	929	988	994	969	967	974
<b>70</b>	581	580	594	622	653	665	658	671	674
<b>75</b>	351	350	354	355	367	383	390	405	415
<b>80</b>	174	177	172	172	174	179	197	207	211
<b>85</b>	58	59	52	52	58	58	58	66	65
<b>90</b>	0	0	0	0	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1787.71	N.A.	16.90
0-30	3669.1	N.A.	34.70
0-40	5762.03	N.A.	54.50
0-60	9157.54	N.A.	86.60
0-80	10498.29	N.A.	99.20
0-90	10579.91	N.A.	100.00
10-90	10109.23	N.A.	95.60
20-40	3974.32	N.A.	37.60
20-50	5899.77	N.A.	55.80
40-70	4323.91	N.A.	40.90
60-80	1340.75	N.A.	12.70
70-80	412.35	N.A.	3.90
80-90	81.62	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	10579.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	470.68
10-20	1317.04
20-30	1881.38
30-40	2092.93
40-50	1925.46
50-60	1470.05
60-70	928.40
70-80	412.35
80-90	81.62
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	92	92	90	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	50	43	38	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
10	57	44	36	31	55	43	36	31	42	36	31	42	35	31	41	35	31	29

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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	18.8	20.3	19.2	20.6	21.0	19.8	21.3	20.2	21.6	21.9
	3H	20.1	21.4	20.5	21.8	22.1	21.0	22.4	21.4	22.7	23.1
	4H	20.5	21.7	20.9	22.1	22.5	21.4	22.6	21.8	23.0	23.4
	6H	20.7	21.8	21.1	22.2	22.6	21.5	22.7	21.9	23.1	23.4
	8H	20.7	21.8	21.1	22.2	22.6	21.5	22.6	22.0	23.0	23.4
	12H	20.7	21.8	21.2	22.2	22.6	21.6	22.6	22.0	23.0	23.4

### UGR Viewed Endwise

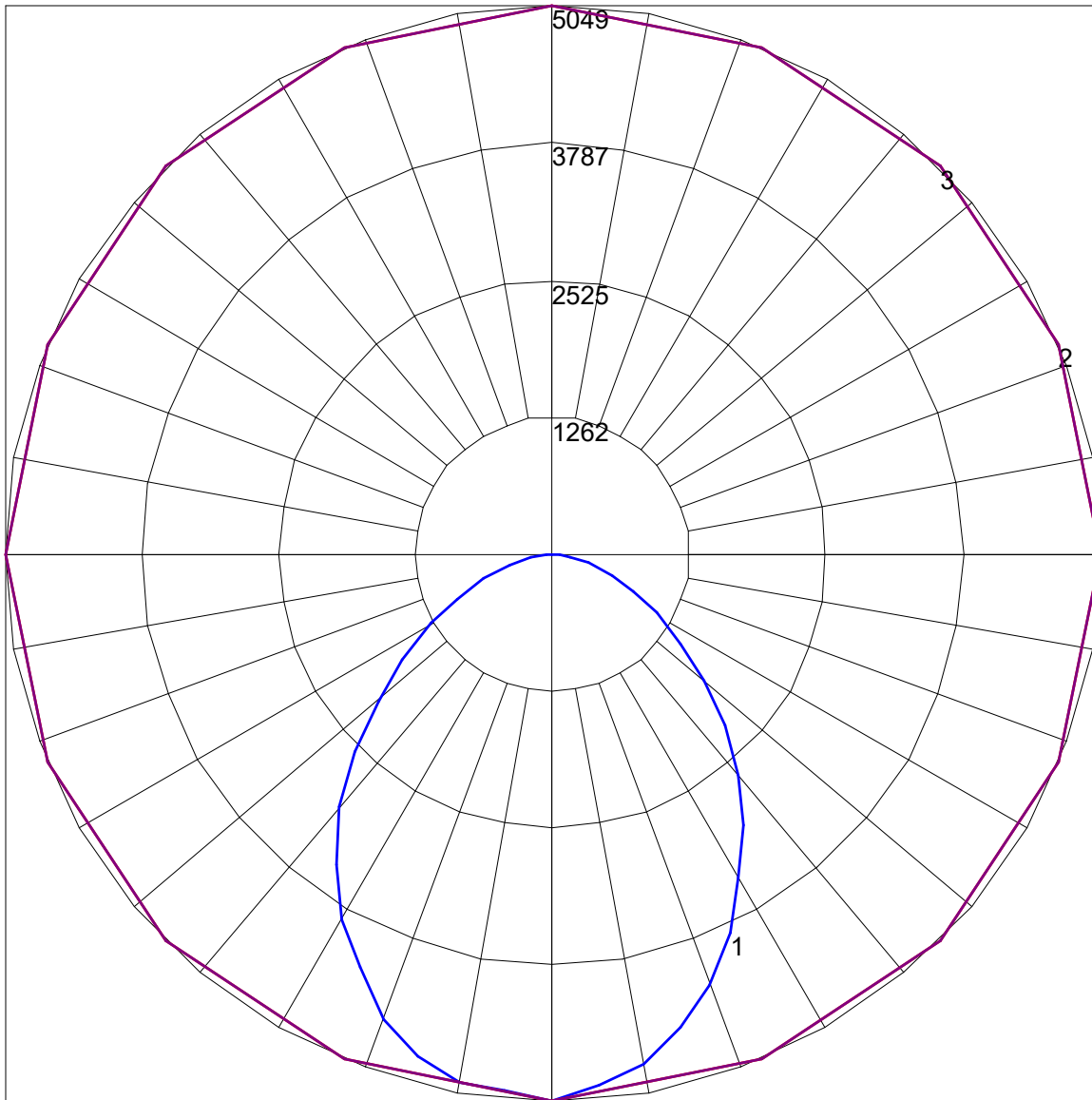
4H	2H	19.3	20.6	19.7	20.9	21.3	20.2	21.5	20.6	21.8	22.2
	3H	20.8	21.8	21.2	22.2	22.6	21.6	22.7	22.0	23.1	23.5
	4H	21.2	22.2	21.7	22.6	23.0	22.0	23.0	22.5	23.4	23.8
	6H	21.5	22.3	22.0	22.8	23.2	22.3	23.1	22.7	23.5	24.0
	8H	21.6	22.3	22.0	22.8	23.3	22.3	23.1	22.7	23.5	24.0
	12H	21.6	22.3	22.1	22.8	23.2	22.3	23.0	22.8	23.5	23.9

8H	4H	21.4	22.2	21.8	22.6	23.1	22.1	22.9	22.6	23.4	23.8
	6H	21.8	22.4	22.3	22.9	23.3	22.4	23.1	22.9	23.6	24.0
	8H	21.9	22.4	22.4	22.9	23.4	22.5	23.1	23.0	23.6	24.1
	12H	21.9	22.4	22.4	22.9	23.5	22.6	23.0	23.1	23.5	24.1

12H	4H	21.4	22.1	21.9	22.5	23.0	22.1	22.8	22.6	23.3	23.8
	6H	21.8	22.3	22.3	22.8	23.3	22.4	23.0	23.0	23.5	24.0
	8H	21.9	22.4	22.4	22.9	23.4	22.5	23.0	23.0	23.5	24.1

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 5049 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)