



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4U-4-00-L8-835-A-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20657.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 03-24-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 4' INDIRECT SUSPENDED LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] MX4U-4-00-L8-835-A-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 3500K CCT
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor, Architectural, Classroom, Indirect
 [SEARCH_MOUNTING] Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3503
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	26.6
Ballast Factor	1.00
CIE Type	Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>
0	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000
15	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.000	0.000	0.000
25	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000
35	0.000	0.000	0.000	0.000	0.000
40	0.000	0.000	0.000	0.000	0.000
45	0.000	0.000	0.000	0.000	0.000
50	0.000	0.000	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000
95	62.913	61.655	64.171	62.913	66.688
100	133.376	134.634	127.084	133.376	132.117
105	225.229	223.970	223.970	220.196	216.421
110	322.115	317.082	313.307	310.790	304.499
115	426.550	420.259	412.710	400.127	400.127
120	529.728	518.404	507.079	500.788	494.497
125	624.097	621.581	608.998	596.416	590.124
130	722.242	720.984	708.401	697.077	693.302
135	815.353	817.870	804.029	788.930	783.897
140	914.756	909.723	900.915	879.524	879.524
145	1004.092	997.801	983.960	978.927	967.603
150	1078.330	1085.879	1072.038	1060.714	1055.681
155	1151.309	1157.600	1147.534	1133.693	1132.435
160	1215.480	1220.513	1210.447	1204.156	1197.864
165	1263.294	1269.585	1260.777	1254.486	1250.711
170	1297.267	1303.558	1296.009	1292.234	1292.234
175	1314.883	1322.432	1316.141	1312.366	1307.333
180	1319.916	1319.916	1319.916	1319.916	1319.916

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	305.28	N.A.	8.70
90-120	712.85	N.A.	20.40
90-130	1257.68	N.A.	35.90
90-150	2495.01	N.A.	71.20
90-180	3502.85	N.A.	100.00
110-180	3197.58	N.A.	91.30
0-180	3502.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	70.44
100-110	234.84
110-120	407.58
120-130	544.83
130-140	620.02
140-150	617.30
150-160	527.57
160-170	355.32
170-180	124.95

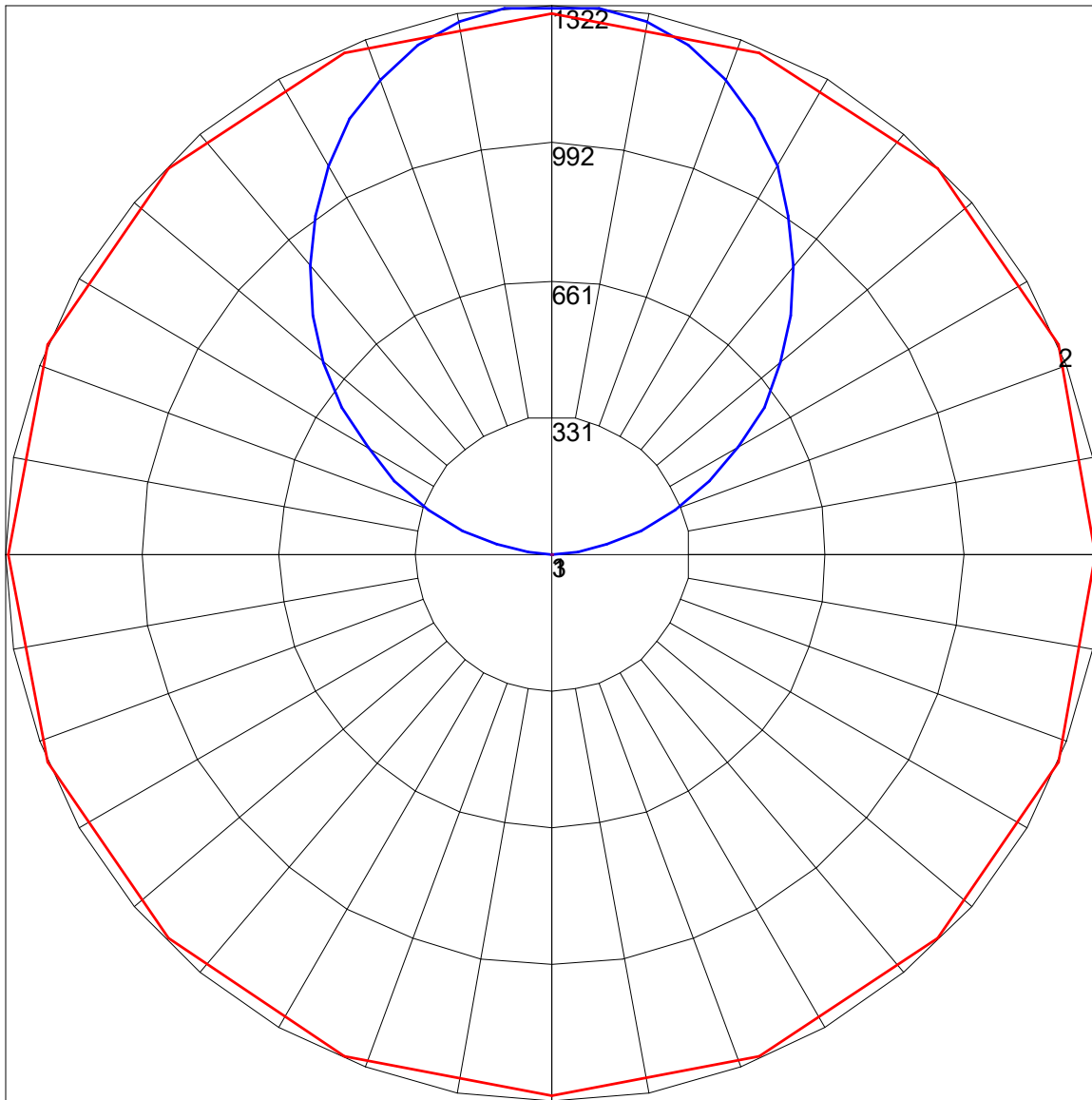
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	88	88	88	88	60	60	60	34	34	34	11	11	11	0
1	93	89	85	82	79	76	73	70	52	50	49	30	29	28	10	9	9	0
2	85	77	72	66	72	66	62	57	45	43	40	26	25	23	8	8	8	0
3	77	68	61	55	66	58	52	48	40	36	33	23	21	20	7	7	6	0
4	70	60	52	46	60	51	45	40	35	31	28	20	18	17	7	6	5	0
5	64	53	45	39	55	45	39	34	31	27	24	18	16	14	6	5	5	0
6	59	47	39	34	50	41	34	29	28	24	21	16	14	12	5	5	4	0
7	54	42	34	29	46	36	30	25	25	21	18	15	12	11	5	4	4	0
8	50	38	30	25	43	33	26	22	23	18	16	13	11	9	4	4	3	0
9	46	34	27	22	39	30	23	19	20	16	14	12	10	8	4	3	3	0
10	43	31	24	19	37	27	21	17	19	15	12	11	9	7	4	3	2	0

POLAR GRAPH



Maximum Candela = 1322.432 Located At Horizontal Angle = 22.5, Vertical Angle = 175
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)
3 - Horizontal Cone Through Vertical Angle (0)