



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4U-7-00-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
 [ISSUEDATE] 30-JUN2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 7' INDIRECT SUSPENDED LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] MX4U-7-00-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	6049
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	44.4
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)	7.00 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	108.639	106.466	110.811	108.639	115.157
100	230.314	232.487	219.450	230.314	228.141
105	388.926	386.754	386.754	380.235	373.717
110	556.230	547.539	541.020	536.675	525.811
115	736.570	725.706	712.670	690.942	690.942
120	914.737	895.182	875.627	864.764	853.900
125	1077.695	1073.350	1051.622	1029.894	1019.030
130	1247.172	1244.999	1223.271	1203.716	1197.198
135	1407.957	1412.302	1388.402	1362.329	1353.638
140	1579.606	1570.915	1555.705	1518.768	1518.768
145	1733.873	1723.009	1699.108	1690.417	1670.862
150	1862.066	1875.103	1851.202	1831.648	1822.956
155	1988.087	1998.951	1981.569	1957.668	1955.496
160	2098.899	2107.590	2090.208	2079.344	2068.480
165	2181.464	2192.328	2177.118	2166.255	2159.736
170	2240.129	2250.993	2237.956	2231.438	2231.438
175	2270.548	2283.584	2272.720	2266.202	2257.511
180	2279.239	2279.239	2279.239	2279.239	2279.239

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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	527.15	N.A.	8.70
90-120	1230.96	N.A.	20.40
90-130	2171.78	N.A.	35.90
90-150	4308.39	N.A.	71.20
90-180	6048.74	N.A.	100.00
110-180	5521.59	N.A.	91.30
0-180	6048.74	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	121.63
100-110	405.52
110-120	703.81
120-130	940.81
130-140	1070.65
140-150	1065.96
150-160	911.01
160-170	613.57
170-180	215.77

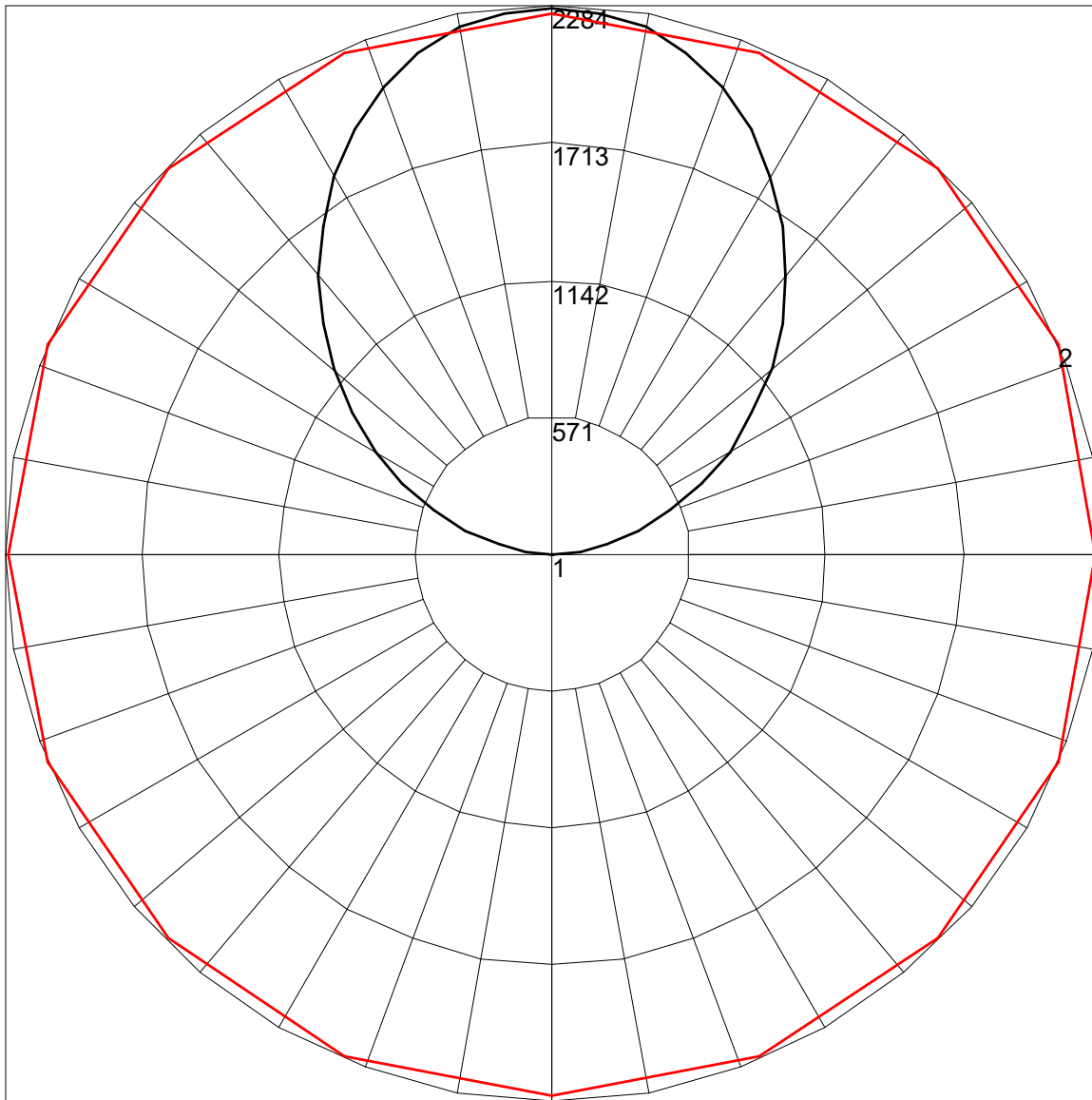
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	111	95	95	95	95	65	65	65	37	37	37	12	12	12	0
1	101	97	93	89	86	83	79	76	57	55	53	33	32	31	10	10	10	0
2	92	84	78	72	78	72	67	63	49	46	44	29	27	26	9	9	8	0
3	84	74	66	60	71	63	57	52	43	40	36	25	23	21	8	8	7	0
4	77	65	57	50	65	56	49	44	38	34	31	22	20	18	7	7	6	0
5	70	58	49	43	59	50	42	37	34	30	26	20	17	16	6	6	5	0
6	64	51	43	36	55	44	37	32	30	26	22	18	15	13	6	5	4	0
7	59	46	37	31	50	40	32	27	27	23	19	16	13	12	5	4	4	0
8	54	41	33	27	46	36	29	24	25	20	17	14	12	10	5	4	3	0
9	50	37	29	24	43	32	25	21	22	18	15	13	11	9	4	3	3	0
10	47	34	26	21	40	29	23	18	20	16	13	12	9	8	4	3	3	0

POLAR GRAPH



Maximum Candela = 2283.584 Located At Horizontal Angle = 22.5, Vertical Angle = 175
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)