



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4RWTX-4-00-L12-835-F-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM BALLABS TEST NO. 20643.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 29-OCT-2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-72 LED 23.75"ARRAYS RECESSED WALL LUMINAIRE
 [MORE] WHITE ALUM BODY w/WHITE REFL & FLAT FROSTED LENS
 [MORE] ADVANCE #XI036C100V054DSM5 @ 725mA
 [LUMCAT] MX4RWTx-4-00-L12-835-F-DIM-UNV
 [LAMPCAT] HEW MX2472_2835 REV 10560315

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4988
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	43.2
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	4.00 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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	53.949	47.784	70.905	0.000	0.000	0.000	0.000	0.000	0.000
10	155.682	126.396	140.268	10.790	0.000	0.000	0.000	0.000	0.000
15	262.040	229.670	218.880	41.618	0.000	0.000	0.000	0.000	0.000
20	399.225	343.734	212.715	67.822	0.000	0.000	0.000	0.000	0.000
25	528.704	467.047	297.492	104.816	0.000	0.000	0.000	0.000	0.000
30	685.927	594.984	388.435	141.810	0.000	0.000	0.000	0.000	0.000
35	821.572	733.711	482.461	180.345	0.000	0.000	0.000	0.000	0.000
40	966.464	855.483	567.239	221.963	0.000	0.000	0.000	0.000	0.000
45	1134.478	997.292	661.265	260.498	0.000	0.000	0.000	0.000	0.000
50	1273.205	1131.395	753.749	300.575	0.000	0.000	0.000	0.000	0.000
55	1419.639	1259.332	838.527	340.652	0.000	0.000	0.000	0.000	0.000
60	1553.741	1370.313	917.139	376.104	0.000	0.000	0.000	0.000	0.000
65	1695.551	1485.919	991.127	410.015	0.000	0.000	0.000	0.000	0.000
70	1789.577	1576.862	1048.159	437.760	0.000	0.000	0.000	0.000	0.000
75	1878.979	1653.933	1105.191	465.506	0.000	0.000	0.000	0.000	0.000
80	1945.259	1710.965	1143.726	482.461	0.000	0.000	0.000	0.000	0.000
85	1986.877	1749.500	1169.930	499.417	0.000	0.000	0.000	0.000	0.000
90	1991.502	1749.500	1173.013	500.958	0.000	0.000	0.000	0.000	0.000
95	1994.585	1757.207	1180.720	508.665	0.000	0.000	0.000	0.000	0.000
100	1962.215	1727.921	1165.306	504.041	0.000	0.000	0.000	0.000	0.000
105	1892.851	1673.971	1134.478	496.334	0.000	0.000	0.000	0.000	0.000
110	1808.074	1606.149	1088.235	480.920	0.000	0.000	0.000	0.000	0.000
115	1704.799	1521.372	1034.286	460.882	0.000	0.000	0.000	0.000	0.000
120	1578.404	1413.473	974.171	436.219	0.000	0.000	0.000	0.000	0.000
125	1450.467	1304.033	898.642	410.015	0.000	0.000	0.000	0.000	0.000
130	1317.906	1188.427	818.489	376.104	0.000	0.000	0.000	0.000	0.000
135	1169.930	1054.324	736.794	328.320	0.000	0.000	0.000	0.000	0.000
140	1014.248	926.387	653.558	288.244	0.000	0.000	0.000	0.000	0.000
145	857.024	790.743	559.532	251.250	3.083	0.000	0.000	0.000	0.000
150	733.711	659.723	470.130	211.173	4.624	0.000	0.000	0.000	0.000
155	579.570	520.997	380.728	177.262	1.541	0.000	0.000	0.000	0.000
160	431.595	408.474	285.161	146.434	7.707	0.000	0.000	0.000	0.000
165	300.575	285.161	200.383	100.192	9.248	0.000	0.000	0.000	0.000
170	174.179	166.472	117.147	69.363	13.873	0.000	0.000	0.000	0.000
175	52.408	63.198	57.032	38.535	13.873	0.000	0.000	0.000	0.000
180	13.873	13.873	13.873	13.873	13.873	13.873	13.873	13.873	13.873

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	24.59	N.A.	0.50
0-30	91.41	N.A.	1.80
0-40	233.77	N.A.	4.70
0-60	827.30	N.A.	16.60
0-80	1837.59	N.A.	36.80
0-90	2436.11	N.A.	48.80
10-90	2433.65	N.A.	48.80
20-40	209.19	N.A.	4.20
20-50	450.07	N.A.	9.00
40-70	1055.04	N.A.	21.20
60-80	1010.29	N.A.	20.30
70-80	548.78	N.A.	11.00
80-90	598.52	N.A.	12.00
90-110	1163.81	N.A.	23.30
90-120	1642.75	N.A.	32.90
90-130	2016.98	N.A.	40.40
90-150	2440.58	N.A.	48.90
90-180	2552.16	N.A.	51.20
110-180	1388.35	N.A.	27.80
0-180	4988.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.46
10-20	22.13
20-30	66.82
30-40	142.36
40-50	240.88
50-60	352.65
60-70	461.51
70-80	548.78
80-90	598.52
90-100	603.00
100-110	560.81
110-120	478.93
120-130	374.24
130-140	262.71
140-150	160.89
150-160	80.68
160-170	27.53
170-180	3.38

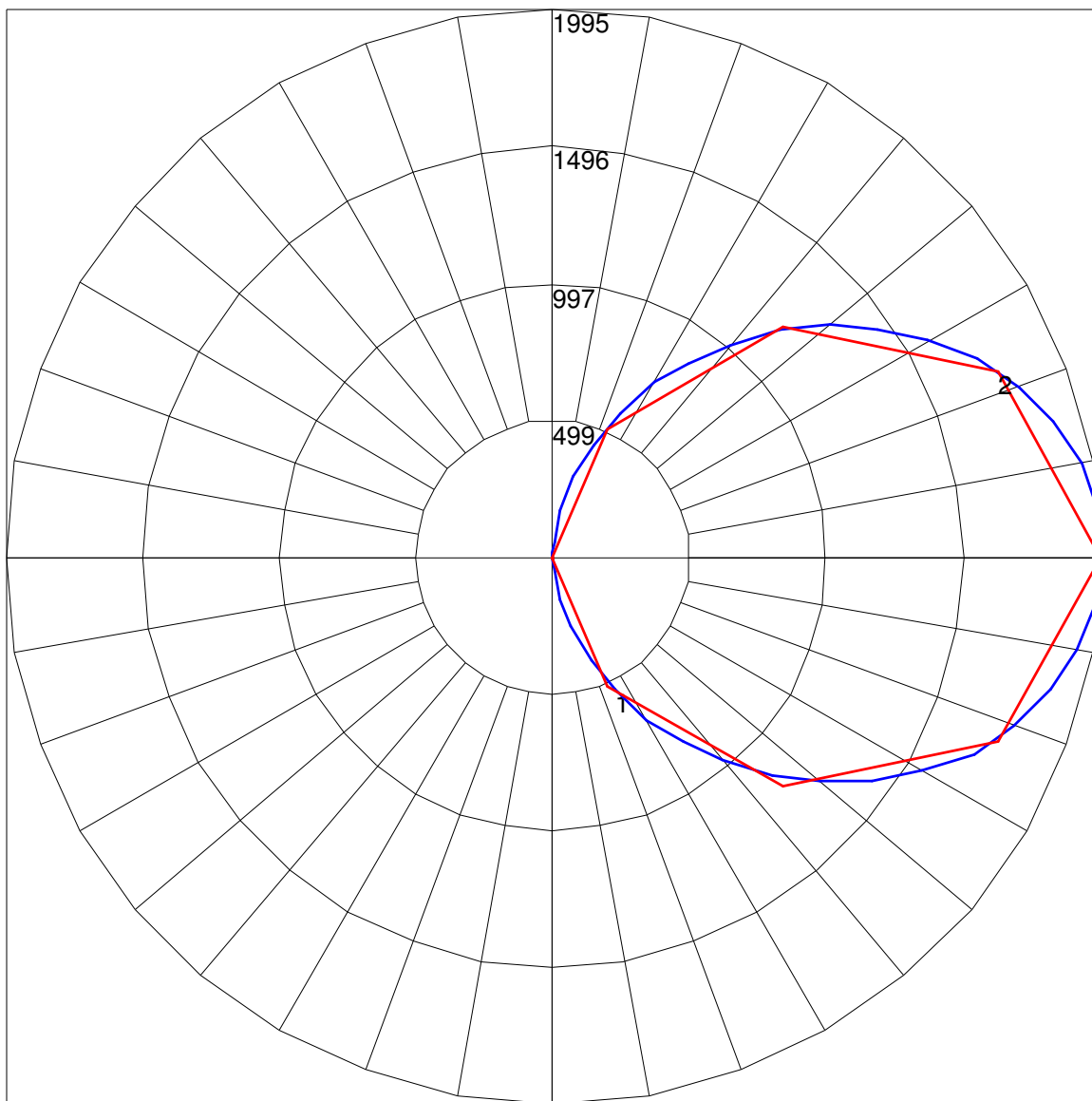
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	91	84	78	73	83	77	71	66	63	59	55	51	47	44	39	36	34	28
2	81	70	62	54	73	64	56	50	52	46	41	41	36	32	31	27	24	19
3	72	60	50	43	65	54	46	39	44	37	32	34	29	25	25	21	18	13
4	65	52	42	34	59	47	38	31	38	31	25	29	24	20	22	17	14	10
5	59	45	35	28	53	41	32	26	33	26	21	26	20	16	19	15	11	8
6	54	40	30	24	49	36	28	22	29	22	17	23	17	13	17	12	9	6
7	50	36	27	20	45	32	24	18	26	20	15	20	15	11	15	11	8	5
8	46	32	23	17	42	29	21	16	24	17	13	18	13	9	14	9	6	4
9	43	29	21	15	39	26	19	14	21	15	11	17	12	8	12	8	6	3
10	40	26	18	13	36	24	17	12	20	14	10	15	11	7	11	8	5	3

POLAR GRAPH



Maximum Candela = 1994.585 Located At Horizontal Angle = 0, Vertical Angle = 95

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (95) (Through Max. Cd.)