



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4WUD-4-L8-835U-L8-835D-AF.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN from BALLABS TEST NO. 20663.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 09-NOV-2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-72 LED(UP) 2-72 LED(DOWN) 23.75"ARRAYS 4' LUMINAIRE
 [MORE] WHITE ALUM BODY w/WHITE REFL & FLAT FROST LENSES(UP/DOWN)
 [MORE] 2 ADVANCE #XI036C100V054DSM5 @ 375mA(DOWN) & 350mA(UP)
 [LUMCAT] MX4WUD-4-L8-835U-L8-835D-AF
 [LAMPCAT] MX2472_2835 REV A 10560314

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6732
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	56.8
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	Rectangular
Luminous Length (0-180)	0.32 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	8468	8444	8156
55	7860	7682	7326
65	6763	6602	6360
75	5258	4995	4732
85	2733	2342	1757

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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	1155.003	1155.003	1155.003	1155.003	1155.003	1155.003	1155.003	1155.003	1155.003
5	1175.125	1167.076	1163.052	1155.003	1134.881	1132.869	1132.869	1140.917	1144.942
10	1159.027	1152.991	1146.954	1134.881	1110.734	1108.722	1108.722	1118.783	1122.808
15	1122.808	1120.795	1112.747	1102.686	1090.612	1080.551	1074.515	1078.539	1080.551
20	1084.576	1078.539	1072.503	1058.417	1038.295	1030.246	1026.222	1028.234	1032.259
25	1026.222	1020.185	1018.173	1002.076	983.966	977.929	973.905	967.868	973.905
30	961.832	953.783	943.722	939.697	923.600	911.527	905.490	899.453	901.466
35	879.331	875.307	873.295	859.209	847.136	829.026	829.026	822.990	820.978
40	796.831	796.831	794.819	778.721	764.636	756.587	750.551	738.477	740.490
45	708.294	700.246	706.282	694.209	682.136	674.087	666.038	655.977	633.843
50	605.672	611.709	603.660	595.611	593.599	589.575	581.526	569.453	557.379
55	533.233	517.135	521.160	511.099	497.013	501.038	488.965	480.916	482.928
60	428.599	430.611	426.586	420.550	408.477	408.477	394.391	388.355	394.391
65	338.050	334.025	330.001	330.001	317.928	319.940	311.891	303.842	311.891
70	247.501	241.464	243.476	229.391	229.391	223.354	225.366	223.354	221.342
75	160.976	156.952	152.927	146.891	144.878	146.891	148.903	146.891	140.854
80	86.525	86.525	80.488	74.451	72.439	74.451	76.464	80.488	80.488
85	28.171	24.146	24.146	22.134	18.110	18.110	22.134	24.146	24.146
90	6.037	6.037	6.037	8.049	12.073	8.049	6.037	4.024	6.037
95	58.354	62.378	68.415	70.427	70.427	70.427	62.378	58.354	56.342
100	118.720	122.744	136.830	136.830	132.805	130.793	122.744	106.647	106.647
105	201.220	209.269	217.318	225.366	219.330	205.244	197.196	191.159	173.049
110	291.769	297.806	311.891	332.013	330.001	315.915	287.745	269.635	261.586
115	400.428	406.464	426.586	442.684	446.708	424.574	394.391	368.233	360.184
120	535.245	535.245	549.331	571.465	569.453	553.355	515.123	486.952	478.904
125	653.965	666.038	676.099	700.246	696.221	682.136	637.867	613.721	595.611
130	794.819	800.856	814.941	831.039	833.051	814.941	782.746	728.416	730.429
135	937.685	937.685	947.746	951.771	949.758	943.722	905.490	873.295	861.222
140	1052.381	1056.405	1060.429	1060.429	1060.429	1038.295	1016.161	994.027	987.990
145	1148.966	1163.052	1152.991	1163.052	1161.039	1140.917	1108.722	1096.649	1084.576
150	1239.515	1239.515	1239.515	1249.576	1249.576	1225.430	1207.320	1193.235	1179.149
155	1301.893	1299.881	1305.918	1309.942	1311.954	1291.832	1269.698	1255.613	1245.552
160	1348.174	1348.174	1352.198	1360.247	1368.296	1344.150	1322.015	1313.967	1305.918
165	1380.369	1380.369	1384.394	1390.430	1398.479	1380.369	1360.247	1352.198	1344.150
170	1392.442	1396.467	1400.491	1404.516	1416.589	1396.467	1382.381	1374.333	1372.320
175	1396.467	1392.442	1402.503	1414.577	1428.662	1410.552	1390.430	1382.381	1370.308
180	1398.479	1398.479	1398.479	1398.479	1398.479	1398.479	1398.479	1398.479	1398.479

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	417.54	N.A.	6.20
0-30	874.56	N.A.	13.00
0-40	1405.63	N.A.	20.90
0-60	2380.34	N.A.	35.40
0-80	2858.96	N.A.	42.50
0-90	2894.46	N.A.	43.00
10-90	2785.5	N.A.	41.40
20-40	988.09	N.A.	14.70
20-50	1513.59	N.A.	22.50
40-70	1292.82	N.A.	19.20
60-80	478.62	N.A.	7.10
70-80	160.51	N.A.	2.40
80-90	35.50	N.A.	0.50
90-110	293.30	N.A.	4.40
90-120	704.36	N.A.	10.50
90-130	1298.37	N.A.	19.30
90-150	2721.37	N.A.	40.40
90-180	3837.66	N.A.	57.00
110-180	3544.35	N.A.	52.60
0-180	6732.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	108.96
10-20	308.58
20-30	457.02
30-40	531.06
40-50	525.51
50-60	449.21
60-70	318.10
70-80	160.51
80-90	35.50
90-100	71.43
100-110	221.87
110-120	411.05
120-130	594.01
130-140	711.72
140-150	711.28
150-160	594.50
160-170	388.34
170-180	133.44

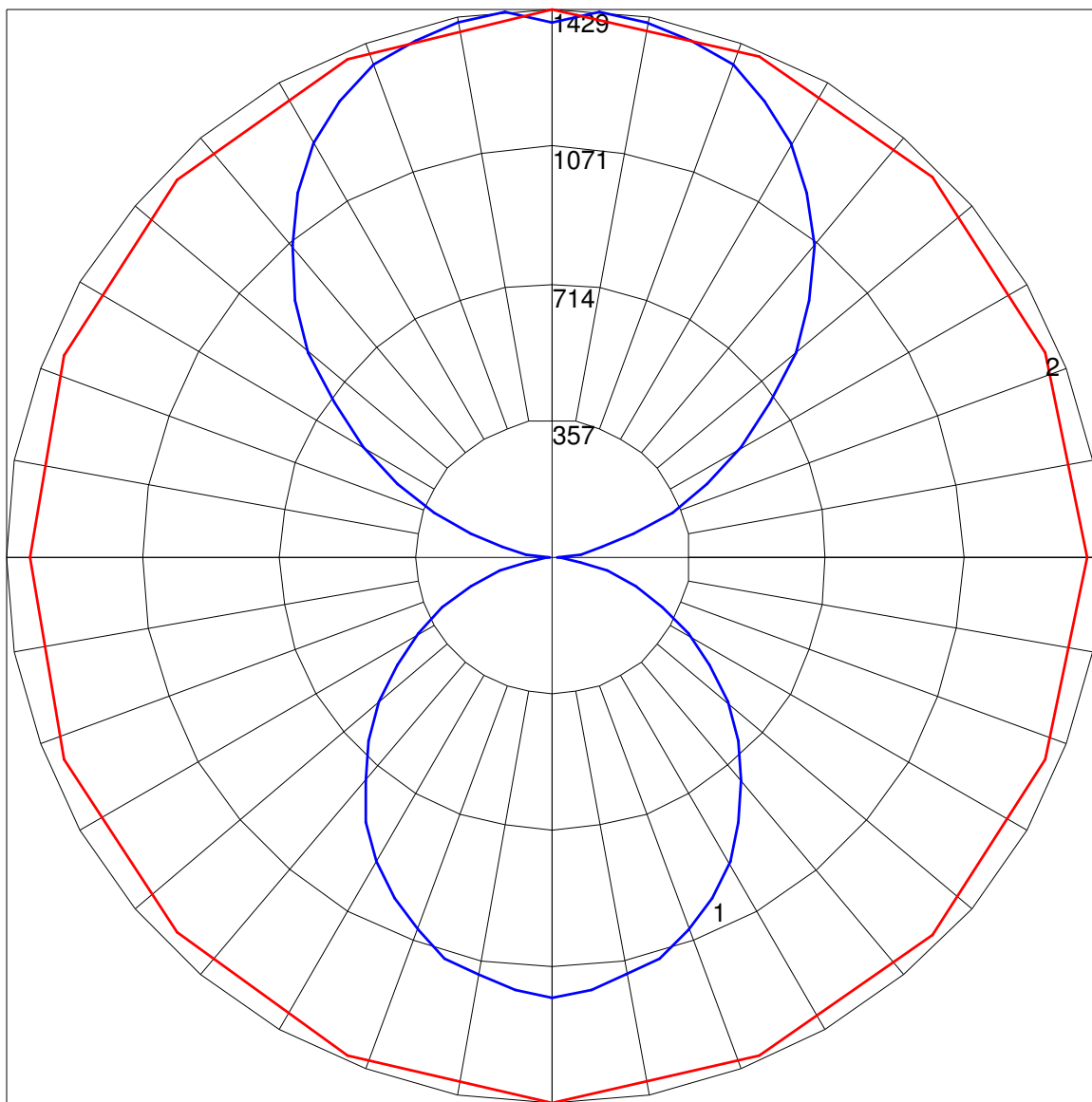
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	32	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	28	26	23
5	67	56	48	42	61	51	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	25	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	26	22	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	22	19	16	18	15	13	11

POLAR GRAPH



Maximum Candela = 1428.662 Located At Horizontal Angle = 90, Vertical Angle = 175
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (175) (Through Max. Cd.)