



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4RXX-4-00-L12-835-F-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20647.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 02-NOV-2018

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-72 LED 23.75"ARRAYS 4'RECESSED GRID LUMINAIRE

[MORE] WHITE ALUM BODY w/WHITE REFL & FLAT FROST LENS

[MORE] ADVANCE #XI036C100V054DSM5

[LUMCAT] MX4RG-4-00-L12-835-F-DIM-UNV

[LAMPCAT] MX2472_2835 REV A 10560314

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	43.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
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	13973	13675	13112
55	12939	12164	11960
65	10914	10526	10193
75	8141	8051	8141
85	3761	3761	3761

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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	1980.063	1980.063	1980.063	1980.063	1980.063
5	1991.140	1968.986	1955.139	1952.370	1952.370
10	1955.139	1932.985	1916.369	1913.599	1910.830
15	1899.753	1872.060	1852.674	1849.905	1841.597
20	1802.827	1783.441	1777.903	1766.826	1752.979
25	1697.593	1680.977	1669.899	1653.283	1644.976
30	1581.281	1561.896	1542.511	1531.433	1520.356
35	1456.662	1445.585	1412.353	1417.891	1387.429
40	1318.196	1309.888	1298.811	1265.579	1248.963
45	1168.653	1157.575	1143.729	1110.497	1096.650
50	1016.340	1010.801	983.108	966.492	955.415
55	877.874	858.489	825.257	825.257	811.410
60	692.330	697.868	672.945	664.637	648.021
65	545.556	540.017	526.171	515.093	509.555
70	404.321	393.243	379.397	373.858	371.089
75	249.239	243.700	246.469	240.931	249.239
80	127.389	121.850	127.389	138.466	127.389
85	38.770	38.770	38.770	47.078	38.770
90	2.769	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	710.49	N.A.	14.70
0-30	1478.78	N.A.	30.60
0-40	2369.1	N.A.	49.00
0-60	3994.09	N.A.	82.50
0-80	4781.65	N.A.	98.80
0-90	4839.02	N.A.	100.00
10-90	4652.88	N.A.	96.20
20-40	1658.6	N.A.	34.30
20-50	2536.64	N.A.	52.40
40-70	2148.2	N.A.	44.40
60-80	787.56	N.A.	16.30
70-80	264.35	N.A.	5.50
80-90	57.37	N.A.	1.20
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	4839.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	186.14
10-20	524.35
20-30	768.28
30-40	890.32
40-50	878.03
50-60	746.96
60-70	523.21
70-80	264.35
80-90	57.37
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

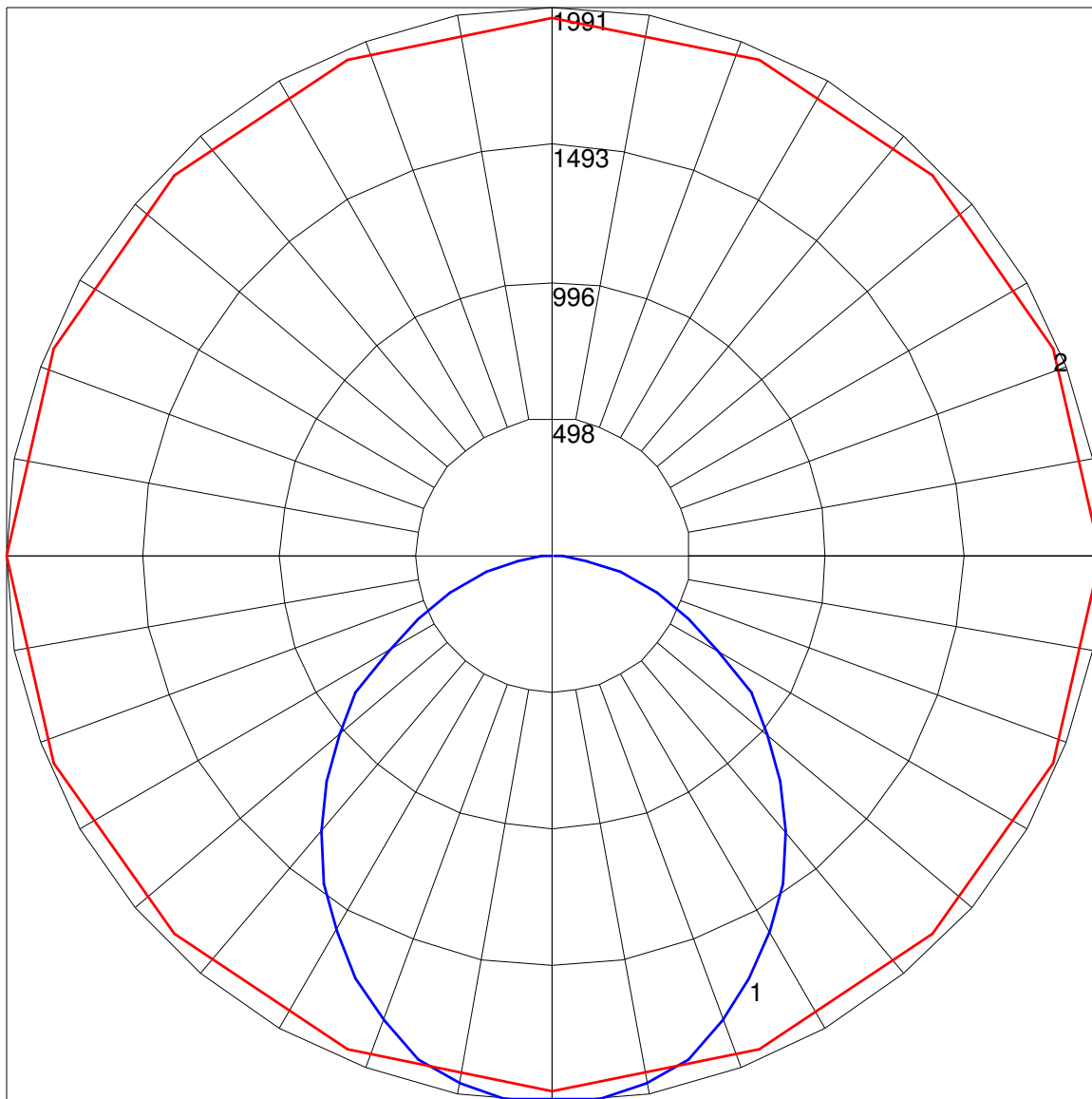
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1991.14 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)