



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MX4RWTX-4-00-L8-835-F-(L5)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20641.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 03/30/2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 4' RECESSED LED WALL LUMINAIRE
 [MORE] WHITE ALUM BODY w/WHITE REFL & FROSTED LENS
 [LUMCAT] MX4RWTx-4-00-L8-835-F-(L5)-DIM-UNV
 [LAMPCAT] HEW MX2472_2835 REV 10560314

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2048
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	17
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	39.904	31.688	18.778	5.868	0.000	0.000	0.000	0.000	0.000
10	82.155	69.245	46.946	16.431	0.000	0.000	0.000	0.000	0.000
15	132.621	111.496	75.113	29.341	0.000	0.000	0.000	0.000	0.000
20	191.303	167.830	110.322	45.772	0.000	0.000	0.000	0.000	0.000
25	246.464	221.818	147.879	59.856	0.000	0.000	0.000	0.000	0.000
30	314.535	280.500	188.956	75.113	0.000	0.000	0.000	0.000	0.000
35	374.391	329.793	222.991	90.370	0.000	0.000	0.000	0.000	0.000
40	440.115	388.475	265.242	106.801	0.000	0.000	0.000	0.000	0.000
45	507.012	448.330	306.320	124.406	0.000	0.000	0.000	0.000	0.000
50	559.826	503.491	341.529	144.358	0.000	0.000	0.000	0.000	0.000
55	625.550	555.131	377.912	158.441	0.000	0.000	0.000	0.000	0.000
60	673.669	598.556	404.905	169.004	0.000	0.000	0.000	0.000	0.000
65	721.788	637.286	434.246	183.088	0.000	0.000	0.000	0.000	0.000
70	760.518	673.669	456.546	192.477	0.000	0.000	0.000	0.000	0.000
75	793.380	703.010	474.150	200.692	0.000	0.000	0.000	0.000	0.000
80	813.332	718.267	484.713	204.213	0.000	0.000	0.000	0.000	0.000
85	821.547	727.656	491.755	207.734	0.000	0.000	0.000	0.000	0.000
90	812.158	720.614	484.713	204.213	0.000	0.000	0.000	0.000	0.000
95	807.464	714.746	484.713	205.387	0.000	0.000	0.000	0.000	0.000
100	782.817	698.315	472.977	199.519	0.000	0.000	0.000	0.000	0.000
105	754.650	667.801	458.893	194.824	0.000	0.000	0.000	0.000	0.000
110	710.052	630.244	434.246	186.609	0.000	0.000	0.000	0.000	0.000
115	666.627	592.688	409.600	177.219	0.000	0.000	0.000	0.000	0.000
120	612.640	550.437	376.738	160.789	0.000	0.000	0.000	0.000	0.000
125	551.610	499.970	347.397	147.879	0.000	0.000	0.000	0.000	0.000
130	497.623	449.504	313.362	132.621	0.000	0.000	0.000	0.000	0.000
135	438.941	394.343	273.458	116.190	0.000	0.000	0.000	0.000	0.000
140	374.391	340.355	235.901	100.933	0.000	0.000	0.000	0.000	0.000
145	319.230	284.021	198.345	82.155	0.000	0.000	0.000	0.000	0.000
150	257.027	237.075	159.615	65.724	0.000	0.000	0.000	0.000	0.000
155	197.171	179.567	125.579	52.814	0.000	0.000	0.000	0.000	0.000
160	140.837	132.621	90.370	35.209	0.000	0.000	0.000	0.000	0.000
165	86.849	82.155	59.856	22.299	0.000	0.000	0.000	0.000	0.000
170	45.772	39.904	29.341	12.910	0.000	0.000	0.000	0.000	0.000
175	7.042	11.736	9.389	3.521	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	11.84	N.A.	0.60
0-30	44.44	N.A.	2.20
0-40	110.41	N.A.	5.40
0-60	376.83	N.A.	18.40
0-80	810.46	N.A.	39.60
0-90	1059.54	N.A.	51.70
10-90	1058.31	N.A.	51.70
20-40	98.57	N.A.	4.80
20-50	208.14	N.A.	10.20
40-70	466.41	N.A.	22.80
60-80	433.63	N.A.	21.20
70-80	233.64	N.A.	11.40
80-90	249.08	N.A.	12.20
90-110	469.07	N.A.	22.90
90-120	656.13	N.A.	32.00
90-130	798.78	N.A.	39.00
90-150	953.60	N.A.	46.60
90-180	988.95	N.A.	48.30
110-180	519.88	N.A.	25.40
0-180	2048.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.23
10-20	10.61
20-30	32.59
30-40	65.97
40-50	109.57
50-60	156.85
60-70	199.99
70-80	233.64
80-90	249.08
90-100	245.33
100-110	223.74
110-120	187.06
120-130	142.66
130-140	97.48
140-150	57.34
150-160	26.86
160-170	7.84
170-180	0.64

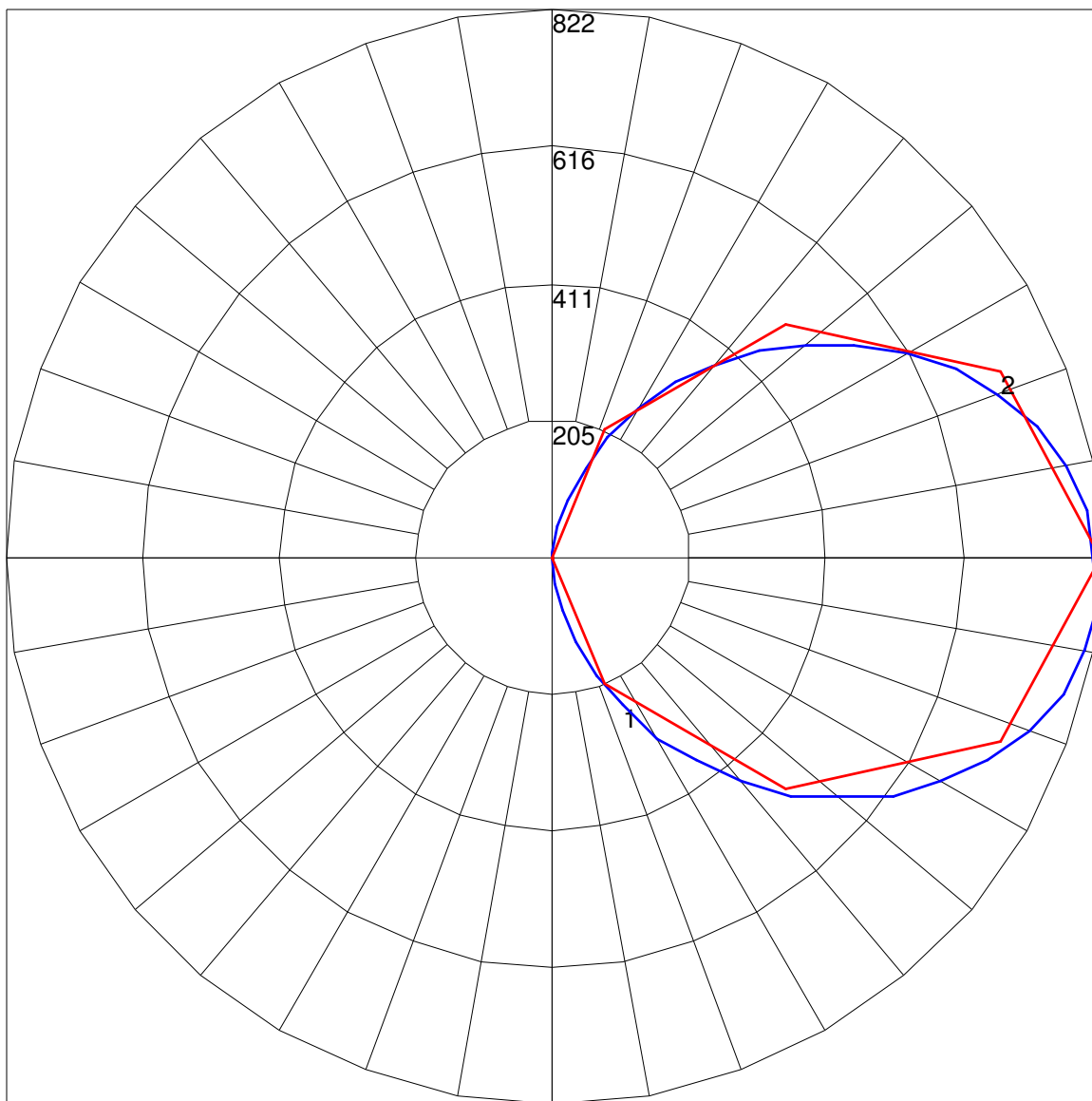
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	92	85	79	73	84	78	72	67	64	60	56	52	49	46	41	39	36	31
2	81	71	62	55	74	64	57	50	53	47	42	42	38	34	33	29	26	21
3	73	60	50	43	66	55	46	39	45	38	32	35	30	26	27	23	19	15
4	65	52	42	34	59	47	38	31	39	31	26	30	25	20	23	19	15	11
5	60	45	35	28	54	41	32	26	34	27	21	27	21	16	20	16	12	8
6	54	40	30	24	49	37	28	22	30	23	18	24	18	14	18	13	10	7
7	50	36	26	20	45	33	24	18	27	20	15	21	16	11	16	11	8	5
8	46	32	23	17	42	29	21	16	24	17	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	15	11	17	12	8	13	9	6	4
10	40	26	18	13	36	24	17	12	20	14	10	16	11	7	12	8	5	3

POLAR GRAPH



Maximum Candela = 821.547 Located At Horizontal Angle = 0, Vertical Angle = 85
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (85) (Through Max. Cd.)