



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : MWW-2-LED-HO-CW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-3810A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/8/16  
[TEST DATE]1/30/13  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]MWW-2-LED-HO-CW  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[\_SEARCH\_SOURCETYPE] LED  
[\_SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3072
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	35
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.72
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.88
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20447	15436	6545
55	25468	19487	6677
65	34535	24352	6937
75	41691	35473	7374
85	50381	45372	9446

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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>
<b>0.0</b>	568.40	568.40	568.40	568.40	568.40	568.40	568.40	568.40	568.40
<b>2.5</b>	575.36	578.84	581.16	581.16	578.84	566.08	552.16	539.40	535.92
<b>5.0</b>	613.64	611.32	607.84	595.08	578.84	552.16	526.64	506.92	501.12
<b>7.5</b>	653.08	648.44	634.52	607.84	576.52	537.08	502.28	482.56	477.92
<b>10.0</b>	696.00	686.72	662.36	621.76	574.20	522.00	487.20	472.12	467.48
<b>12.5</b>	740.08	728.48	690.20	632.20	570.72	506.92	477.92	462.84	458.20
<b>15.0</b>	785.32	767.92	719.20	643.80	566.08	493.00	468.64	452.40	446.60
<b>17.5</b>	830.56	809.68	747.04	654.24	559.12	482.56	459.36	440.80	433.84
<b>20.0</b>	874.64	850.28	773.72	663.52	553.32	472.12	447.76	428.04	421.08
<b>22.5</b>	919.88	889.72	800.40	672.80	545.20	462.84	436.16	415.28	407.16
<b>25.0</b>	966.28	930.32	827.08	679.76	535.92	451.24	423.40	401.36	394.40
<b>27.5</b>	1015.00	972.08	850.28	686.72	526.64	440.80	409.48	388.60	381.64
<b>30.0</b>	1068.36	1015.00	874.64	691.36	516.20	429.20	395.56	380.48	374.68
<b>32.5</b>	1124.04	1061.40	897.84	694.84	504.60	416.44	383.96	367.72	361.92
<b>35.0</b>	1183.20	1107.80	921.04	696.00	490.68	402.52	372.36	354.96	350.32
<b>37.5</b>	1243.52	1160.00	944.24	697.16	477.92	389.76	358.44	342.20	336.40
<b>40.0</b>	1294.56	1209.88	967.44	694.84	462.84	374.68	343.36	328.28	324.80
<b>42.5</b>	1327.04	1249.32	989.48	692.52	446.60	360.76	327.12	315.52	310.88
<b>45.0</b>	1344.44	1271.36	1015.00	689.04	430.36	343.36	312.04	301.60	294.64
<b>47.5</b>	1357.20	1281.80	1037.04	683.24	415.28	325.96	296.96	283.04	267.96
<b>50.0</b>	1360.68	1284.12	1048.64	676.28	396.72	307.40	280.72	256.36	241.28
<b>52.5</b>	1363.00	1281.80	1049.80	669.32	377.00	290.00	264.48	228.52	213.44
<b>55.0</b>	1358.36	1274.84	1039.36	660.04	356.12	270.28	243.60	201.84	186.76
<b>57.5</b>	1356.04	1265.56	1024.28	650.76	335.24	251.72	218.08	175.16	161.24
<b>60.0</b>	1358.36	1257.44	1004.56	641.48	317.84	232.00	191.40	149.64	147.32
<b>62.5</b>	1357.20	1252.80	980.20	629.88	294.64	212.28	163.56	136.88	124.12
<b>65.0</b>	1357.20	1245.84	957.00	613.64	272.60	193.72	142.68	112.52	100.92
<b>67.5</b>	1349.08	1236.56	936.12	592.76	248.24	170.52	122.96	90.48	78.88
<b>70.0</b>	1292.24	1214.52	915.24	566.08	223.88	151.96	99.76	68.44	58.00
<b>72.5</b>	1160.00	1121.72	892.04	531.28	198.36	127.60	76.56	48.72	38.28
<b>75.0</b>	1003.40	979.04	853.76	495.32	177.48	105.56	54.52	29.00	20.88
<b>77.5</b>	856.08	831.72	748.20	461.68	151.96	80.04	35.96	11.60	3.48
<b>80.0</b>	714.56	692.52	620.60	432.68	124.12	55.68	17.40	3.48	1.16
<b>82.5</b>	561.44	546.36	494.16	385.12	103.24	34.80	6.96	2.32	1.16
<b>85.0</b>	408.32	401.36	367.72	293.48	76.56	16.24	4.64	1.16	1.16
<b>87.5</b>	259.84	259.84	243.60	192.56	52.20	6.96	3.48	1.16	1.16
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	222.26	N.A.	7.20
0-30	507.79	N.A.	16.50
0-40	909.49	N.A.	29.60
0-60	1947.86	N.A.	63.40
0-80	2893.19	N.A.	94.20
0-90	3072.27	N.A.	100.00
10-90	3017.88	N.A.	98.20
20-40	687.23	N.A.	22.40
20-50	1186.56	N.A.	38.60
40-70	1565.86	N.A.	51.00
60-80	945.32	N.A.	30.80
70-80	417.84	N.A.	13.60
80-90	179.09	N.A.	5.80
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	3072.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	54.40
10-20	167.86
20-30	285.53
30-40	401.70
40-50	499.33
50-60	539.04
60-70	527.48
70-80	417.84
80-90	179.09
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

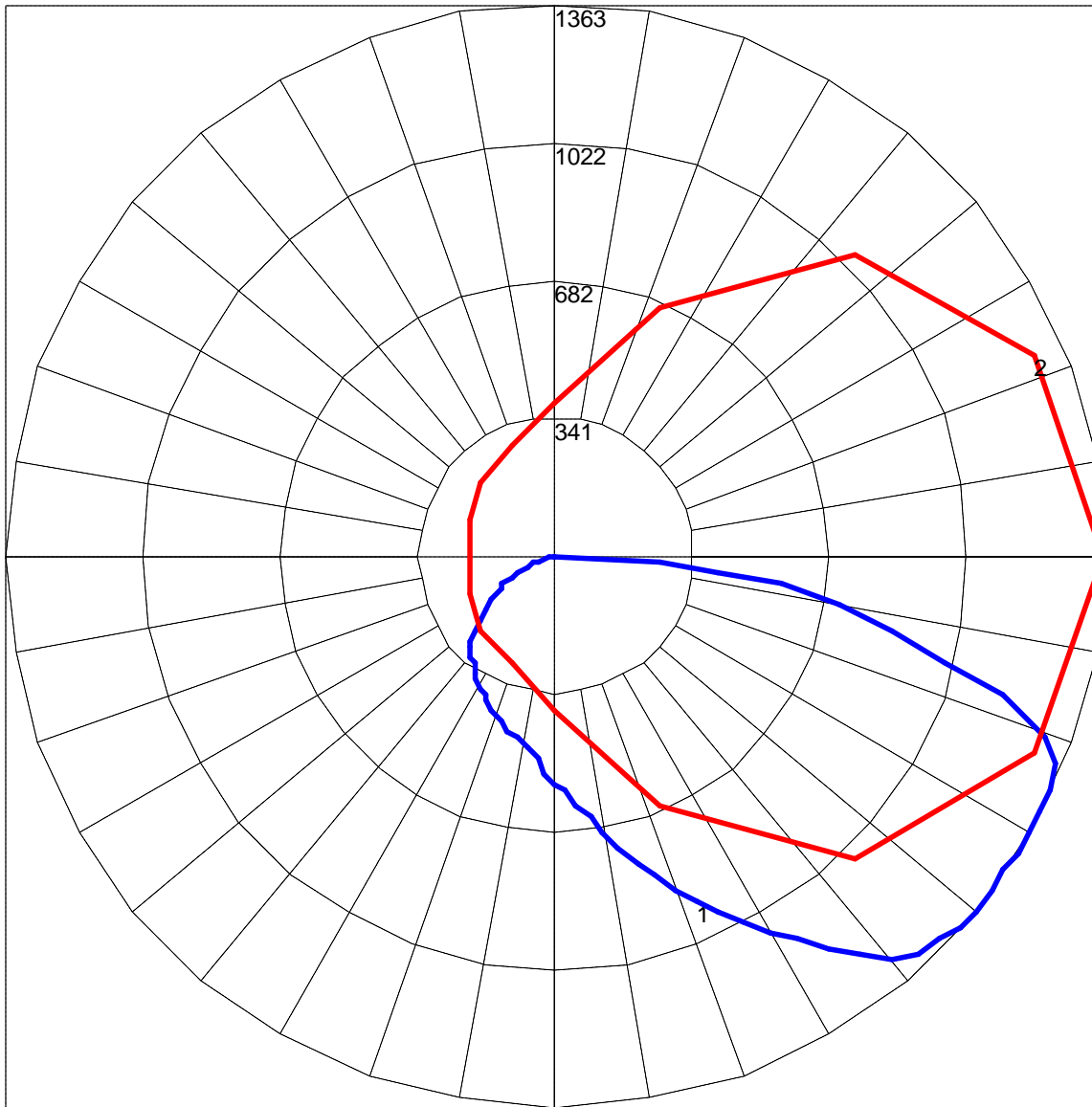
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	105	99	93	88	102	97	92	87	92	88	84	88	85	81	84	82	79	77
2	94	83	75	68	91	81	74	67	78	71	65	74	69	64	71	66	62	60
3	84	71	62	54	81	70	61	53	66	59	52	64	57	51	61	55	50	48
4	76	62	52	44	73	60	51	43	58	49	43	55	48	42	53	47	41	39
5	69	54	44	36	67	53	44	36	51	42	36	49	41	35	47	40	35	32
6	63	48	38	31	61	47	38	31	45	37	30	44	36	30	42	35	30	28
7	58	43	34	27	57	42	33	27	41	32	26	39	32	26	38	31	26	24
8	54	39	30	23	52	38	30	23	37	29	23	36	28	23	34	28	23	21
9	50	36	27	21	49	35	26	21	34	26	20	33	25	20	32	25	20	18
10	47	33	24	18	46	32	24	18	31	24	18	30	23	18	29	23	18	16

POLAR GRAPH



Maximum Candela = 1363 Located At Horizontal Angle = 0, Vertical Angle = 52.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)