



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-3811A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]03/8/16  
[TEST DATE]1/30/13  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]MWW-2-LED-SS-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	2556
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	27
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.74
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.90
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	16936	12737	5469
55	21161	16137	5568
65	28720	20190	5667
75	35088	29690	5976
85	43797	39360	7300

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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>	468.64	468.64	468.64	468.64	468.64	468.64	468.64	468.64	468.64
<b>2.5</b>	477.92	479.08	482.56	483.72	481.40	470.96	452.40	441.96	438.48
<b>5.0</b>	510.40	508.08	504.60	494.16	480.24	459.36	432.68	416.44	411.80
<b>7.5</b>	542.88	538.24	527.80	505.76	479.08	447.76	411.80	395.56	392.08
<b>10.0</b>	576.52	569.56	549.84	516.20	476.76	435.00	399.04	387.44	382.80
<b>12.5</b>	609.00	598.56	573.04	525.48	473.28	421.08	390.92	386.28	381.64
<b>15.0</b>	646.12	632.20	591.60	534.76	469.80	409.48	383.96	377.00	372.36
<b>17.5</b>	683.24	667.00	614.80	542.88	465.16	401.36	381.64	367.72	361.92
<b>20.0</b>	721.52	699.48	638.00	551.00	459.36	393.24	372.36	357.28	351.48
<b>22.5</b>	758.64	733.12	660.04	557.96	453.56	385.12	363.08	346.84	339.88
<b>25.0</b>	798.08	765.60	680.92	563.76	446.60	377.00	352.64	336.40	329.44
<b>27.5</b>	838.68	800.40	700.64	567.24	438.48	367.72	342.20	325.96	319.00
<b>30.0</b>	881.60	837.52	720.36	570.72	430.36	358.44	330.60	314.36	308.56
<b>32.5</b>	926.84	874.64	740.08	574.20	419.92	348.00	319.00	303.92	298.12
<b>35.0</b>	976.72	914.08	759.80	575.36	409.48	336.40	306.24	292.32	287.68
<b>37.5</b>	1026.60	955.84	778.36	575.36	399.04	323.64	294.64	281.88	278.40
<b>40.0</b>	1070.68	998.76	798.08	575.36	386.28	310.88	281.88	271.44	266.80
<b>42.5</b>	1097.36	1033.56	817.80	573.04	373.52	296.96	269.12	259.84	257.52
<b>45.0</b>	1113.60	1052.12	837.52	569.56	359.60	283.04	256.36	249.40	243.60
<b>47.5</b>	1124.04	1060.24	856.08	564.92	344.52	267.96	243.60	234.32	221.56
<b>50.0</b>	1128.68	1063.72	867.68	559.12	329.44	254.04	230.84	212.28	199.52
<b>52.5</b>	1129.84	1062.56	868.84	553.32	314.36	238.96	218.08	190.24	177.48
<b>55.0</b>	1128.68	1057.92	860.72	546.36	296.96	222.72	201.84	168.20	155.44
<b>57.5</b>	1127.52	1049.80	847.96	538.24	279.56	207.64	180.96	151.96	145.00
<b>60.0</b>	1128.68	1044.00	831.72	530.12	261.00	191.40	157.76	135.72	125.28
<b>62.5</b>	1129.84	1040.52	813.16	522.00	242.44	175.16	140.36	114.84	104.40
<b>65.0</b>	1128.68	1035.88	793.44	511.56	222.72	160.08	125.28	96.28	85.84
<b>67.5</b>	1125.20	1028.92	776.04	495.32	201.84	148.48	104.40	77.72	68.44
<b>70.0</b>	1081.12	1015.00	759.80	470.96	182.12	133.40	84.68	59.16	51.04
<b>72.5</b>	974.40	940.76	741.24	444.28	165.88	112.52	66.12	42.92	34.80
<b>75.0</b>	844.48	822.44	714.56	414.12	143.84	90.48	47.56	26.68	18.56
<b>77.5</b>	722.68	700.64	629.88	386.28	125.28	68.44	31.32	11.60	4.64
<b>80.0</b>	603.20	584.64	524.32	359.60	104.40	48.72	16.24	3.48	2.32
<b>82.5</b>	476.76	465.16	419.92	329.44	82.36	30.16	6.96	2.32	1.16
<b>85.0</b>	354.96	348.00	319.00	251.72	59.16	15.08	4.64	2.32	1.16
<b>87.5</b>	226.20	226.20	211.12	172.84	38.28	6.96	3.48	2.32	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	183.98	N.A.	7.20
0-30	420.57	N.A.	16.50
0-40	752.62	N.A.	29.40
0-60	1612.83	N.A.	63.10
0-80	2402.98	N.A.	94.00
0-90	2556.13	N.A.	100.00
10-90	2511.1	N.A.	98.20
20-40	568.64	N.A.	22.20
20-50	981.57	N.A.	38.40
40-70	1299.44	N.A.	50.80
60-80	790.15	N.A.	30.90
70-80	350.91	N.A.	13.70
80-90	153.15	N.A.	6.00
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	2556.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.04
10-20	138.95
20-30	236.59
30-40	332.05
40-50	412.93
50-60	447.28
60-70	439.23
70-80	350.91
80-90	153.15
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

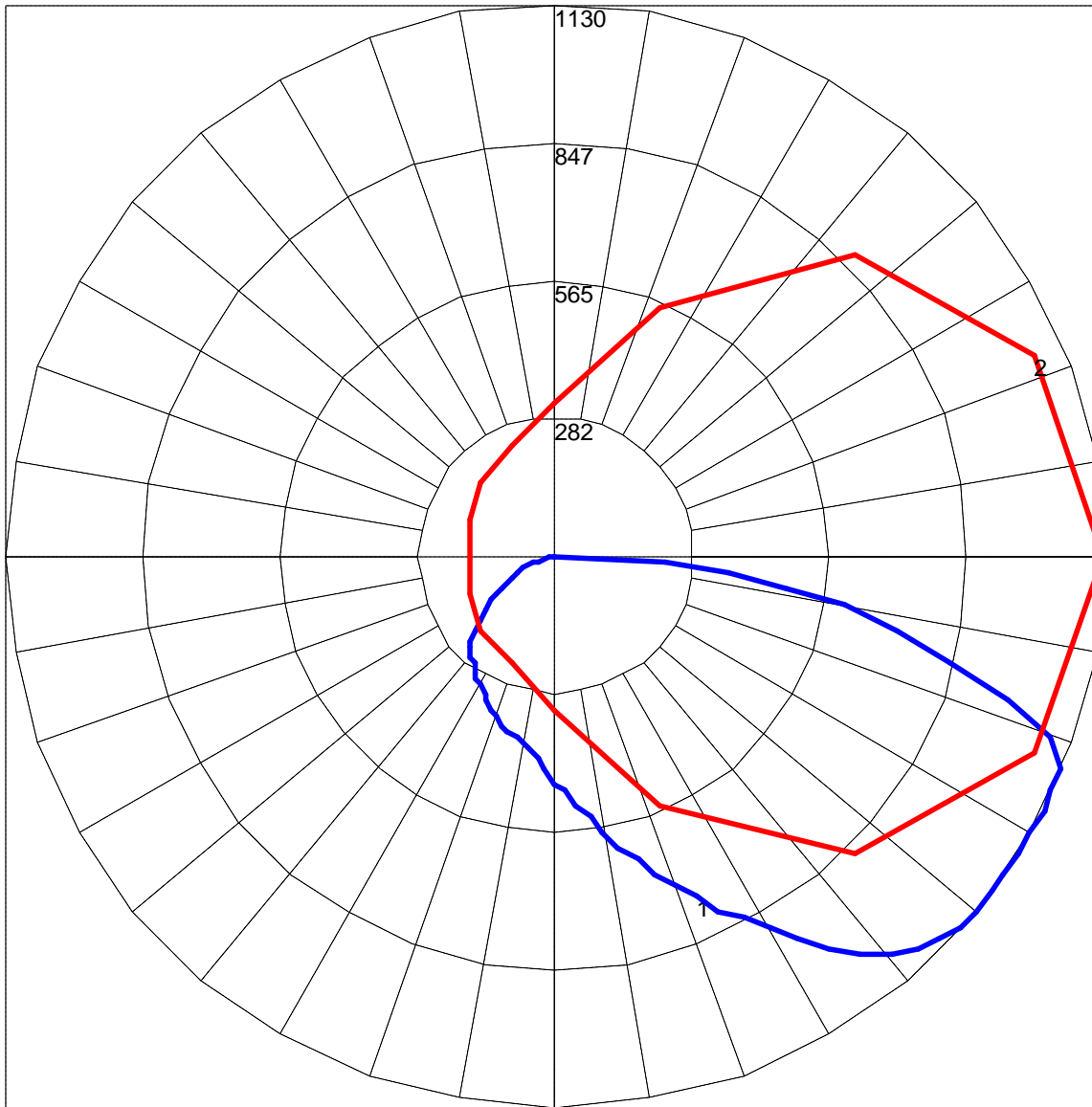
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	91	87	92	88	84	88	85	81	84	81	79	76
2	94	83	75	68	91	81	73	67	78	71	65	74	68	64	71	66	62	60
3	84	71	61	54	81	70	60	53	66	58	52	63	57	51	61	55	50	48
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	47	41	39
5	69	54	44	36	67	53	43	36	51	42	36	49	41	35	47	40	35	32
6	63	48	38	31	61	47	38	31	45	37	30	43	36	30	42	35	30	27
7	58	43	33	27	56	42	33	26	41	32	26	39	32	26	38	31	26	24
8	54	39	30	23	52	38	29	23	37	29	23	36	28	23	34	28	23	21
9	50	36	27	21	49	35	26	20	34	26	20	33	25	20	32	25	20	18
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16

POLAR GRAPH



Maximum Candela = 1129.84 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.)