



**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)	0.25 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	35344	26582	11413
55	44163	33678	11619
65	59938	42135	11827
75	73227	61961	12473
85	91403	82143	15234

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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

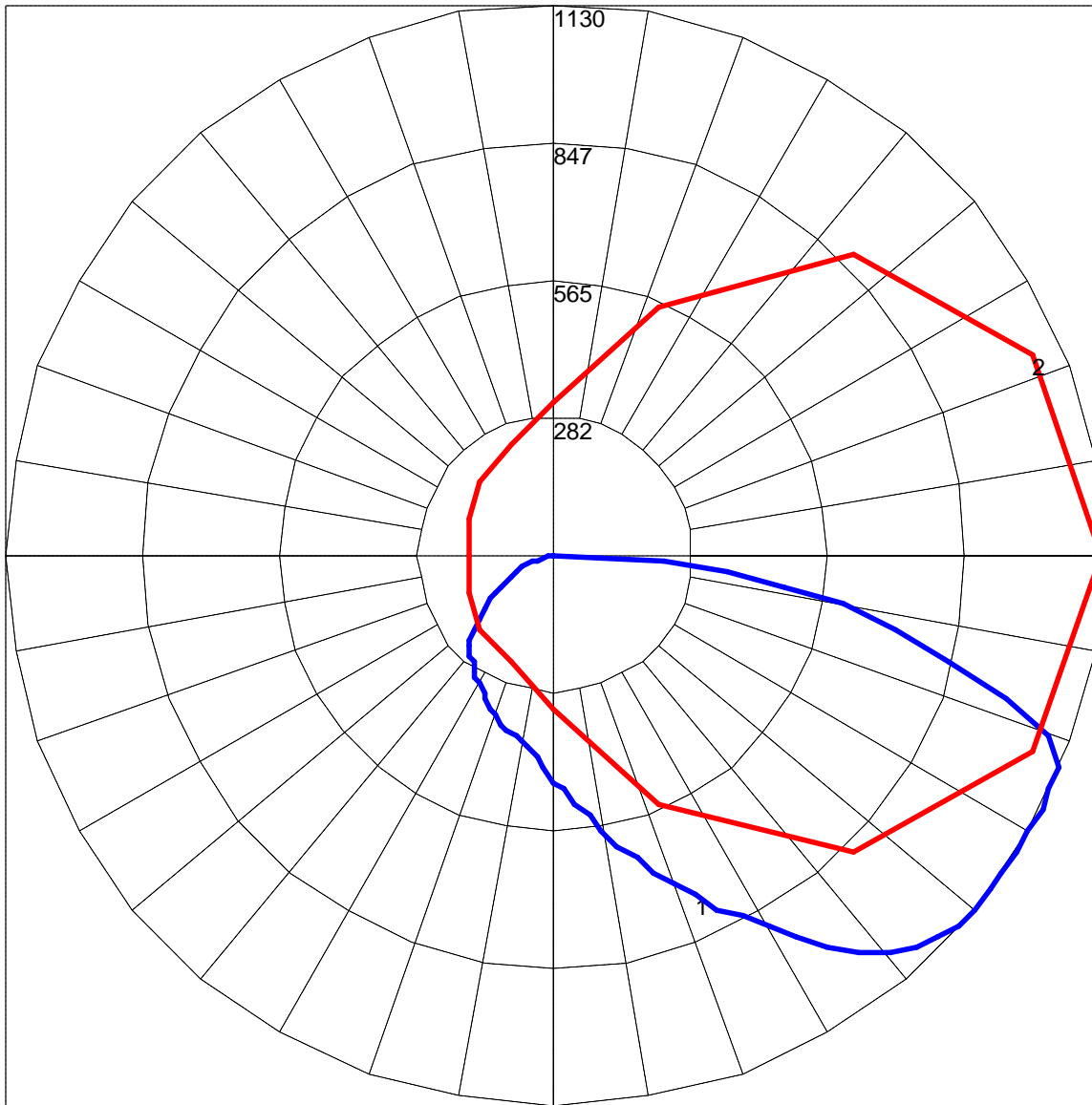
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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.)