



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-3687A  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]3/08/16  
[TEST DATE]12/06/12  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT]MWW-2-LED-SS-NW  
[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	2394
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	29
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.80
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	15683	11273	5010
55	20487	15050	5046
65	28100	19511	5106
75	36245	29208	5061
85	46374	38931	5725

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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>	432.68	432.68	432.68	432.68	432.68	432.68	432.68	432.68	432.68
<b>2.5</b>	425.72	428.04	433.84	440.80	443.12	439.64	432.68	418.76	416.44
<b>5.0</b>	433.84	433.84	436.16	440.80	443.12	438.48	429.20	414.12	411.80
<b>7.5</b>	458.20	455.88	446.60	440.80	441.96	435.00	423.40	407.16	402.52
<b>10.0</b>	488.36	482.56	465.16	441.96	439.64	430.36	416.44	397.88	392.08
<b>12.5</b>	519.68	510.40	483.72	446.60	436.16	425.72	407.16	386.28	387.44
<b>15.0</b>	552.16	540.56	503.44	454.72	432.68	418.76	397.88	380.48	374.68
<b>17.5</b>	583.48	568.40	524.32	461.68	428.04	411.80	387.44	368.88	361.92
<b>20.0</b>	622.92	599.72	544.04	467.48	422.24	403.68	375.84	356.12	349.16
<b>22.5</b>	663.52	635.68	563.76	474.44	416.44	393.24	363.08	343.36	336.40
<b>25.0</b>	704.12	672.80	583.48	480.24	409.48	383.96	350.32	330.60	322.48
<b>27.5</b>	743.56	707.60	606.68	484.88	402.52	372.36	337.56	317.84	309.72
<b>30.0</b>	781.84	741.24	628.72	490.68	394.40	360.76	324.80	305.08	298.12
<b>32.5</b>	818.96	773.72	650.76	494.16	385.12	349.16	310.88	292.32	285.36
<b>35.0</b>	858.40	807.36	671.64	497.64	375.84	335.24	298.12	279.56	273.76
<b>37.5</b>	899.00	841.00	690.20	499.96	365.40	321.32	284.20	267.96	261.00
<b>40.0</b>	940.76	875.80	707.60	502.28	353.80	307.40	270.28	255.20	249.40
<b>42.5</b>	984.84	911.76	723.84	503.44	342.20	292.32	256.36	242.44	237.80
<b>45.0</b>	1031.24	947.72	741.24	504.60	329.44	277.24	243.60	230.84	222.72
<b>47.5</b>	1066.04	986.00	757.48	503.44	315.52	261.00	229.68	213.44	200.68
<b>50.0</b>	1081.12	1010.36	772.56	501.12	300.44	244.76	215.76	192.56	179.80
<b>52.5</b>	1089.24	1018.48	787.64	497.64	285.36	228.52	201.84	171.68	160.08
<b>55.0</b>	1092.72	1019.64	802.72	491.84	269.12	212.28	184.44	150.80	140.36
<b>57.5</b>	1092.72	1016.16	808.52	486.04	254.04	194.88	162.40	131.08	121.80
<b>60.0</b>	1092.72	1010.36	799.24	480.24	236.64	178.64	141.52	112.52	103.24
<b>62.5</b>	1099.68	1006.88	785.32	472.12	218.08	162.40	121.80	99.76	96.28
<b>65.0</b>	1104.32	1006.88	766.76	464.00	200.68	145.00	102.08	88.16	80.04
<b>67.5</b>	1107.80	1005.72	748.20	454.72	182.12	127.60	93.96	70.76	63.80
<b>70.0</b>	1092.72	1001.08	735.44	446.60	162.40	109.04	75.40	55.68	48.72
<b>72.5</b>	1005.72	955.84	721.52	426.88	141.52	92.80	59.16	40.60	34.80
<b>75.0</b>	872.32	844.48	702.96	400.20	121.80	77.72	44.08	26.68	22.04
<b>77.5</b>	738.92	714.56	633.36	370.04	105.56	58.00	29.00	15.08	10.44
<b>80.0</b>	619.44	592.76	522.00	346.84	84.68	41.76	17.40	6.96	5.80
<b>82.5</b>	496.48	475.60	412.96	316.68	67.28	25.52	8.12	2.32	1.16
<b>85.0</b>	375.84	361.92	315.52	238.96	46.40	12.76	3.48	2.32	1.16
<b>87.5</b>	238.96	232.00	207.64	154.28	29.00	5.80	2.32	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	168.89	N.A.	7.10
0-30	384.49	N.A.	16.10
0-40	685.30	N.A.	28.60
0-60	1480.14	N.A.	61.80
0-80	2242.57	N.A.	93.70
0-90	2393.73	N.A.	100.00
10-90	2352.22	N.A.	98.30
20-40	516.41	N.A.	21.60
20-50	892.84	N.A.	37.30
40-70	1211.92	N.A.	50.60
60-80	762.42	N.A.	31.90
70-80	345.35	N.A.	14.40
80-90	151.16	N.A.	6.30
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	2393.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	41.51
10-20	127.37
20-30	215.61
30-40	300.80
40-50	376.42
50-60	418.42
60-70	417.07
70-80	345.35
80-90	151.16
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

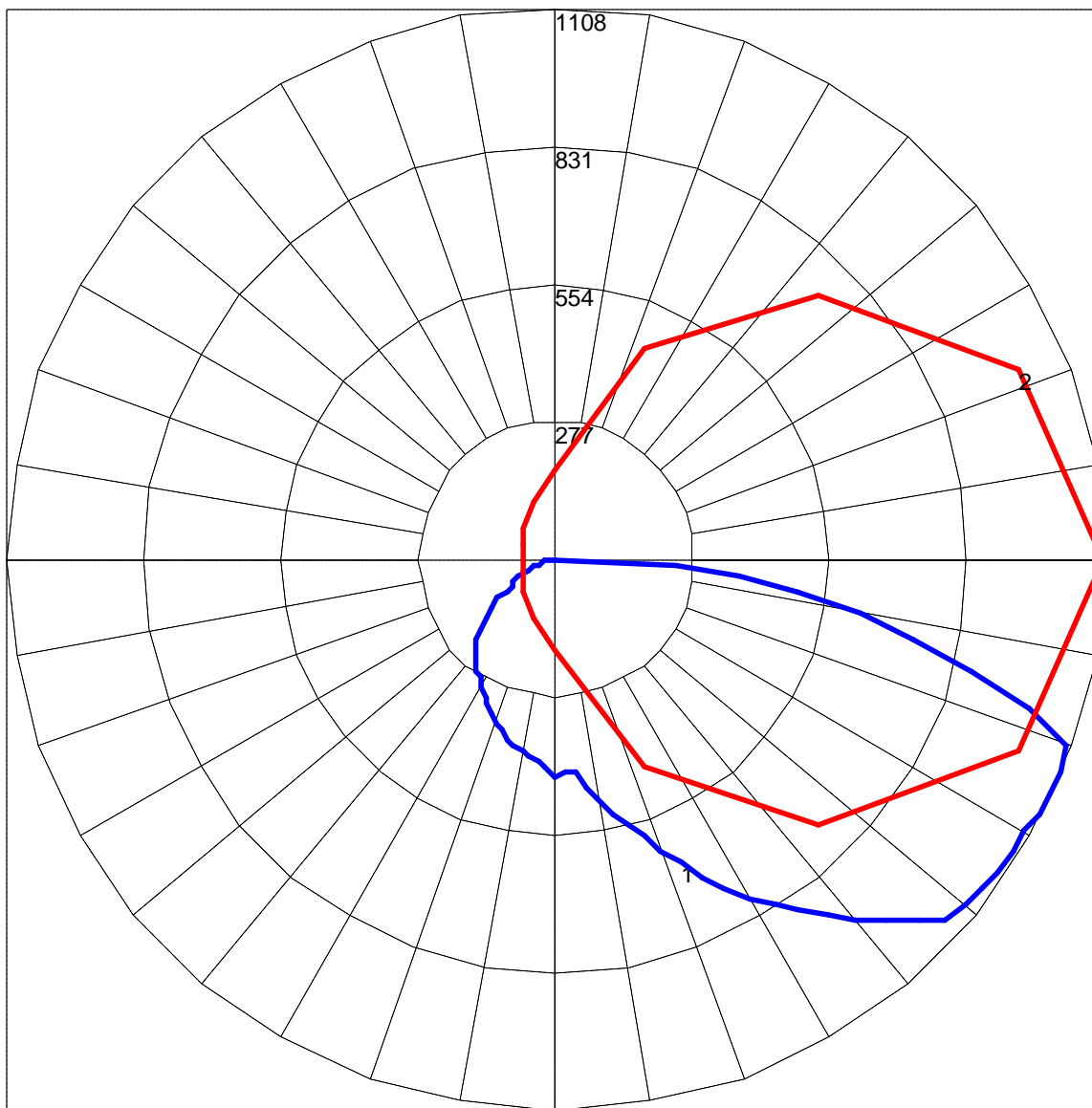
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	96	91	86	92	87	83	88	84	81	84	81	78	76
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	66	61	59
3	83	71	61	53	81	69	60	52	66	58	51	63	56	50	60	54	49	47
4	75	61	51	43	73	60	50	43	57	49	42	55	47	41	52	46	41	38
5	69	54	43	36	66	53	43	35	50	42	35	48	40	35	46	39	34	32
6	63	48	38	30	61	47	37	30	45	36	30	43	35	29	41	34	29	27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	25	37	30	25	23
8	54	39	29	23	52	38	29	23	37	28	22	35	28	22	34	27	22	20
9	50	35	26	20	48	35	26	20	33	25	20	32	25	20	31	25	20	18
10	47	32	24	18	45	32	23	18	31	23	18	30	23	18	29	22	18	16

POLAR GRAPH



Maximum Candela = 1107.8 Located At Horizontal Angle = 0, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)