



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-3734A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/08/16
[TEST DATE]01/02/13
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]MWW-2-LED-HO-WW
[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	2399
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	71
Total Luminaire Watts	34
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.84
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	15736	11414	4887
55	20357	15093	5024
65	27864	19422	5165
75	37931	29111	5254
85	49522	41793	6441

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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	418.76	418.76	418.76	418.76	418.76	418.76	418.76	418.76	418.76
2.5	412.96	415.28	419.92	424.56	429.20	424.56	418.76	406.00	404.84
5.0	431.52	430.36	426.88	424.56	429.20	424.56	417.60	403.68	401.36
7.5	459.36	455.88	445.44	428.04	428.04	423.40	412.96	397.88	394.40
10.0	488.36	482.56	464.00	437.32	425.72	419.92	407.16	389.76	385.12
12.5	520.84	511.56	483.72	444.28	422.24	415.28	399.04	379.32	379.32
15.0	556.80	542.88	504.60	452.40	418.76	409.48	389.76	373.52	367.72
17.5	590.44	576.52	525.48	459.36	414.12	402.52	379.32	360.76	354.96
20.0	632.20	609.00	548.68	466.32	409.48	394.40	367.72	348.00	341.04
22.5	672.80	646.12	569.56	473.28	403.68	385.12	356.12	335.24	327.12
25.0	711.08	680.92	591.60	479.08	397.88	375.84	343.36	321.32	313.20
27.5	750.52	716.88	614.80	484.88	390.92	365.40	330.60	308.56	300.44
30.0	789.96	750.52	638.00	490.68	382.80	353.80	316.68	294.64	287.68
32.5	829.40	784.16	658.88	495.32	373.52	342.20	302.76	281.88	273.76
35.0	868.84	817.80	679.76	501.12	365.40	329.44	288.84	267.96	261.00
37.5	909.44	852.60	698.32	504.60	354.96	315.52	274.92	255.20	248.24
40.0	951.20	886.24	716.88	508.08	344.52	301.60	261.00	242.44	236.64
42.5	992.96	921.04	733.12	510.40	332.92	286.52	247.08	229.68	223.88
45.0	1034.72	954.68	750.52	510.40	321.32	271.44	233.16	216.92	212.28
47.5	1063.72	989.48	765.60	509.24	308.56	255.20	219.24	204.16	193.72
50.0	1075.32	1008.04	779.52	506.92	295.80	238.96	204.16	185.60	174.00
52.5	1082.28	1013.84	792.28	503.44	281.88	223.88	191.40	165.88	154.28
55.0	1085.76	1013.84	805.04	498.80	267.96	206.48	176.32	146.16	134.56
57.5	1084.60	1010.36	806.20	494.16	252.88	189.08	157.76	126.44	117.16
60.0	1084.60	1004.56	795.76	487.20	236.64	172.84	138.04	107.88	110.20
62.5	1089.24	999.92	780.68	479.08	219.24	156.60	118.32	102.08	92.80
65.0	1095.04	999.92	763.28	470.96	203.00	139.20	104.40	84.68	76.56
67.5	1098.52	998.76	744.72	460.52	184.44	122.96	91.64	68.44	60.32
70.0	1090.40	995.28	729.64	447.76	165.88	111.36	74.24	53.36	46.40
72.5	1032.40	967.44	716.88	428.04	146.16	97.44	58.00	38.28	32.48
75.0	912.92	879.28	700.64	401.36	126.44	76.56	42.92	25.52	19.72
77.5	772.56	748.20	650.76	372.36	110.20	58.00	27.84	12.76	5.80
80.0	648.44	622.92	548.68	348.00	90.48	41.76	16.24	3.48	3.48
82.5	525.48	503.44	437.32	319.00	73.08	25.52	5.80	2.32	1.16
85.0	401.36	383.96	338.72	252.88	52.20	12.76	4.64	3.48	2.32
87.5	284.20	273.76	235.48	168.20	32.48	6.96	3.48	3.48	3.48
90.0	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	166.70	N.A.	6.90
0-30	381.11	N.A.	15.90
0-40	680.63	N.A.	28.40
0-60	1471.17	N.A.	61.30
0-80	2237.62	N.A.	93.30
0-90	2399.18	N.A.	100.00
10-90	2358.54	N.A.	98.30
20-40	513.93	N.A.	21.40
20-50	888.59	N.A.	37.00
40-70	1205.64	N.A.	50.30
60-80	766.45	N.A.	31.90
70-80	351.35	N.A.	14.60
80-90	161.56	N.A.	6.70
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	2399.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.64
10-20	126.06
20-30	214.40
30-40	299.53
40-50	374.65
50-60	415.88
60-70	415.11
70-80	351.35
80-90	161.56
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

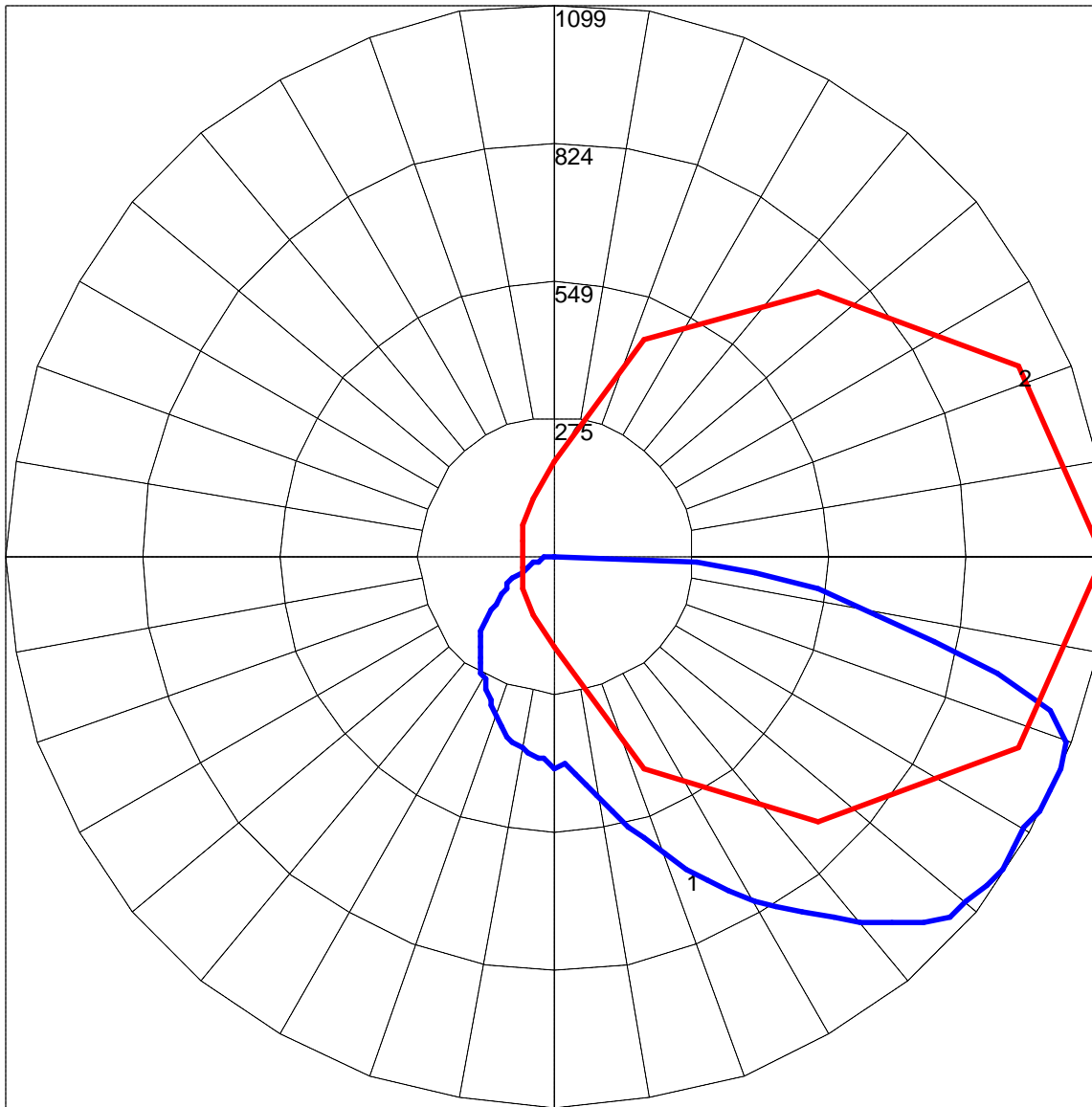
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	98	92	87	102	96	91	86	91	87	83	87	84	80	84	81	78	76
2	93	82	74	66	90	80	72	66	77	70	64	73	67	62	70	65	61	58
3	83	70	60	52	80	69	59	52	65	57	51	62	56	50	60	54	49	46
4	75	61	51	43	73	60	50	42	57	48	42	54	47	41	52	46	40	38
5	68	54	43	35	66	52	43	35	50	41	35	48	40	34	46	39	34	31
6	63	48	37	30	61	47	37	30	45	36	30	43	35	29	41	34	29	27
7	58	43	33	26	56	42	32	26	40	32	25	39	31	25	37	30	25	23
8	54	39	29	23	52	38	29	22	36	28	22	35	28	22	34	27	22	20
9	50	35	26	20	48	34	26	20	33	25	20	32	25	20	31	24	19	17
10	47	32	24	18	45	32	23	18	31	23	18	30	23	18	29	22	17	16

POLAR GRAPH



Maximum Candela = 1098.52 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.)