



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-3686A
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]3/08/16
[TEST DATE]12/06/12
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]MWW-2-LED-HO-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	2794
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	34
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	18347	13161	5892
55	24010	17551	5959
65	33000	22758	5992
75	42317	34027	5880
85	53244	44942	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	508.08	508.08	508.08	508.08	508.08	508.08	508.08	508.08	508.08
2.5	502.28	503.44	510.40	517.36	522.00	516.20	503.44	495.32	490.68
5.0	509.24	509.24	511.56	516.20	520.84	513.88	498.80	488.36	484.88
7.5	538.24	533.60	522.00	516.20	519.68	510.40	493.00	480.24	475.60
10.0	567.24	563.76	544.04	517.36	517.36	505.76	483.72	469.80	464.00
12.5	603.20	591.60	564.92	522.00	513.88	498.80	473.28	457.04	448.92
15.0	642.64	625.24	583.48	530.12	508.08	491.84	461.68	443.12	435.00
17.5	685.56	662.36	606.68	538.24	503.44	482.56	448.92	428.04	419.92
20.0	731.96	701.80	631.04	545.20	496.48	473.28	435.00	412.96	404.84
22.5	779.52	743.56	656.56	552.16	490.68	461.68	421.08	397.88	389.76
25.0	825.92	785.32	682.08	556.80	482.56	450.08	407.16	382.80	380.48
27.5	872.32	827.08	708.76	562.60	473.28	437.32	390.92	374.68	365.40
30.0	915.24	865.36	735.44	567.24	464.00	423.40	379.32	358.44	351.48
32.5	960.48	903.64	759.80	571.88	452.40	408.32	366.56	344.52	337.56
35.0	1005.72	941.92	784.16	576.52	441.96	393.24	350.32	329.44	322.48
37.5	1053.28	980.20	805.04	578.84	429.20	377.00	335.24	315.52	308.56
40.0	1103.16	1021.96	825.92	581.16	416.44	360.76	319.00	301.60	294.64
42.5	1155.36	1062.56	844.48	582.32	402.52	343.36	302.76	286.52	280.72
45.0	1206.40	1104.32	865.36	583.48	387.44	324.80	286.52	272.60	262.16
47.5	1249.32	1147.24	882.76	582.32	371.20	306.24	270.28	251.72	237.80
50.0	1266.72	1179.72	900.16	578.84	353.80	287.68	254.04	227.36	213.44
52.5	1274.84	1187.84	917.56	575.36	336.40	267.96	237.80	203.00	190.24
55.0	1280.64	1190.16	936.12	569.56	317.84	249.40	216.92	178.64	167.04
57.5	1279.48	1185.52	941.92	562.60	298.12	229.68	191.40	156.60	145.00
60.0	1282.96	1178.56	931.48	554.48	278.40	209.96	167.04	134.56	122.96
62.5	1288.76	1175.08	915.24	545.20	257.52	190.24	143.84	112.52	102.08
65.0	1296.88	1177.40	894.36	535.92	235.48	171.68	120.64	103.24	93.96
67.5	1299.20	1176.24	873.48	525.48	213.44	151.96	104.40	83.52	76.56
70.0	1279.48	1169.28	858.40	515.04	190.24	128.76	89.32	64.96	56.84
72.5	1175.08	1114.76	842.16	493.00	165.88	109.04	69.60	47.56	40.60
75.0	1018.48	984.84	818.96	461.68	141.52	90.48	51.04	32.48	25.52
77.5	865.36	834.04	736.60	426.88	117.16	68.44	33.64	17.40	11.60
80.0	725.00	692.52	609.00	399.04	97.44	47.56	19.72	6.96	5.80
82.5	583.48	556.80	482.56	364.24	76.56	29.00	8.12	2.32	1.16
85.0	431.52	416.44	364.24	277.24	52.20	13.92	3.48	2.32	1.16
87.5	280.72	271.44	241.28	178.64	31.32	5.80	2.32	1.16	1.16
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	197.28	N.A.	7.10
0-30	449.20	N.A.	16.10
0-40	801.06	N.A.	28.70
0-60	1730.15	N.A.	61.90
0-80	2619.15	N.A.	93.70
0-90	2794.4	N.A.	100.00
10-90	2745.71	N.A.	98.30
20-40	603.78	N.A.	21.60
20-50	1043.78	N.A.	37.40
40-70	1415.93	N.A.	50.70
60-80	889.00	N.A.	31.80
70-80	402.16	N.A.	14.40
80-90	175.25	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	2794.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.69
10-20	148.59
20-30	251.92
30-40	351.86
40-50	440.00
50-60	489.09
60-70	486.84
70-80	402.16
80-90	175.25
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

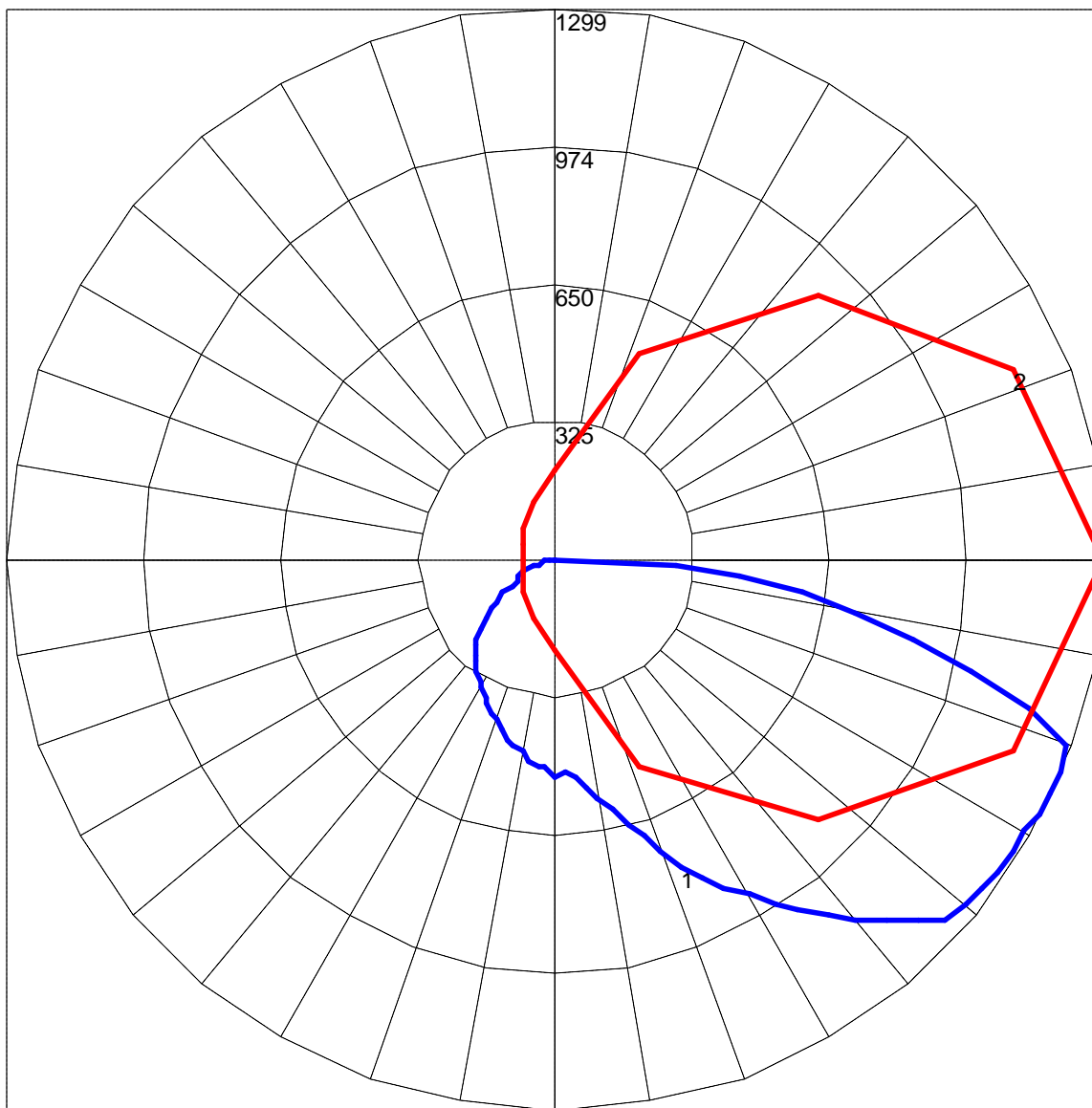
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	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	41	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	23	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	24	18	31	23	18	30	23	18	29	22	18	16

POLAR GRAPH



Maximum Candela = 1299.2 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.)