



IES INDOOR REPORT
PHOTOMETRIC FILENAME : W444-LED-HO-WW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-4273
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 07/18/13
[ISSUEDATE] 05/02/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] W444-LED-HO-WW
[TEST PROCEDURE] IESNA LM-79-19
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[FACTORED] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_COLORTEMP] 3500

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5466
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12384	12530	12755
55	9999	11712	12592
65	7438	11157	12242
75	5422	11640	12688
85	4831	20825	22543

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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>
0.0	1770.16	1770.16	1770.16	1770.16	1770.16
2.5	1821.20	1788.72	1767.84	1750.44	1736.52
5.0	1818.88	1786.40	1766.68	1750.44	1736.52
7.5	1808.44	1780.60	1763.20	1748.12	1735.36
10.0	1798.00	1770.16	1755.08	1741.16	1728.40
12.5	1779.44	1756.24	1743.48	1730.72	1716.80
15.0	1758.56	1737.68	1724.92	1712.16	1698.24
17.5	1731.88	1714.48	1701.72	1687.80	1672.72
20.0	1701.72	1686.64	1672.72	1656.48	1640.24
22.5	1666.92	1653.00	1636.76	1617.04	1600.80
25.0	1626.32	1614.72	1595.00	1571.80	1553.24
27.5	1581.08	1569.48	1546.28	1520.76	1502.20
30.0	1530.04	1519.60	1491.76	1465.08	1447.68
32.5	1470.88	1462.76	1433.76	1407.08	1390.84
35.0	1407.08	1400.12	1369.96	1347.92	1334.00
37.5	1335.16	1331.68	1303.84	1288.76	1277.16
40.0	1258.60	1257.44	1235.40	1229.60	1223.80
42.5	1175.08	1178.56	1166.96	1171.60	1169.28
45.0	1085.76	1097.36	1098.52	1114.76	1118.24
47.5	992.96	1011.52	1030.08	1059.08	1063.72
50.0	899.00	926.84	962.80	1002.24	1010.36
52.5	803.88	842.16	897.84	945.40	953.52
55.0	711.08	760.96	832.88	887.40	895.52
57.5	621.76	680.92	767.92	825.92	832.88
60.0	538.24	605.52	706.44	765.60	771.40
62.5	460.52	534.76	644.96	701.80	706.44
65.0	389.76	467.48	584.64	639.16	641.48
67.5	330.60	407.16	525.48	576.52	577.68
70.0	272.60	357.28	469.80	516.20	516.20
72.5	220.40	306.24	417.60	458.20	457.04
75.0	174.00	261.00	373.52	408.32	407.16
77.5	133.40	220.40	331.76	363.08	360.76
80.0	109.04	185.60	291.16	320.16	316.68
82.5	78.88	154.28	256.36	280.72	278.40
85.0	52.20	131.08	225.04	247.08	243.60
87.5	30.16	111.36	196.04	216.92	214.60
90.0	10.44	92.80	171.68	194.88	192.56
92.5	5.80	84.68	156.60	177.48	176.32
95.0	5.80	80.04	148.48	169.36	167.04
97.5	4.64	76.56	141.52	161.24	161.24
100.0	4.64	74.24	135.72	156.60	155.44
102.5	4.64	70.76	133.40	151.96	150.80
105.0	4.64	69.60	127.60	147.32	147.32
107.5	4.64	67.28	126.44	142.68	143.84
110.0	5.80	63.80	121.80	138.04	140.36
112.5	4.64	62.64	121.80	134.56	135.72
115.0	4.64	59.16	118.32	129.92	132.24
117.5	5.80	58.00	112.52	125.28	128.76
120.0	4.64	54.52	107.88	126.44	124.12
122.5	5.80	52.20	103.24	120.64	124.12
125.0	5.80	51.04	98.60	120.64	125.28
127.5	5.80	47.56	93.96	114.84	119.48
130.0	4.64	45.24	88.16	110.20	114.84
132.5	4.64	42.92	83.52	104.40	109.04

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CANDELA TABULATION - (Cont.)

135.0	5.80	40.60	78.88	98.60	103.24
137.5	5.80	38.28	73.08	92.80	97.44
140.0	5.80	34.80	67.28	87.00	92.80
142.5	5.80	32.48	63.80	81.20	85.84
145.0	5.80	30.16	58.00	75.40	80.04
147.5	5.80	26.68	53.36	69.60	74.24
150.0	5.80	25.52	48.72	63.80	68.44
152.5	5.80	22.04	44.08	58.00	60.32
155.0	5.80	19.72	39.44	51.04	55.68
157.5	6.96	18.56	34.80	46.40	49.88
160.0	6.96	16.24	30.16	40.60	44.08
162.5	6.96	15.08	25.52	34.80	38.28
165.0	6.96	12.76	22.04	30.16	32.48
167.5	6.96	11.60	18.56	24.36	26.68
170.0	6.96	9.28	15.08	19.72	20.88
172.5	6.96	8.12	11.60	15.08	16.24
175.0	6.96	6.96	9.28	10.44	11.60
177.5	6.96	6.96	6.96	6.96	8.12
180.0	5.80	5.80	5.80	5.80	5.80

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	655.36	N.A.	12.00
0-30	1388.18	N.A.	25.40
0-40	2245.66	N.A.	41.10
0-60	3830.75	N.A.	70.10
0-80	4735.17	N.A.	86.60
0-90	4943.22	N.A.	90.40
10-90	4774.64	N.A.	87.40
20-40	1590.3	N.A.	29.10
20-50	2440.98	N.A.	44.70
40-70	2133.81	N.A.	39.00
60-80	904.42	N.A.	16.50
70-80	355.70	N.A.	6.50
80-90	208.05	N.A.	3.80
90-110	245.26	N.A.	4.50
90-120	338.59	N.A.	6.20
90-130	412.94	N.A.	7.60
90-150	498.35	N.A.	9.10
90-180	522.29	N.A.	9.60
110-180	277.03	N.A.	5.10
0-180	5465.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.57
10-20	486.79
20-30	732.82
30-40	857.48
40-50	850.68
50-60	734.41
60-70	548.72
70-80	355.70
80-90	208.05
90-100	133.70
100-110	111.57
110-120	93.32
120-130	74.35
130-140	52.78
140-150	32.64
150-160	16.70
160-170	6.21
170-180	1.03

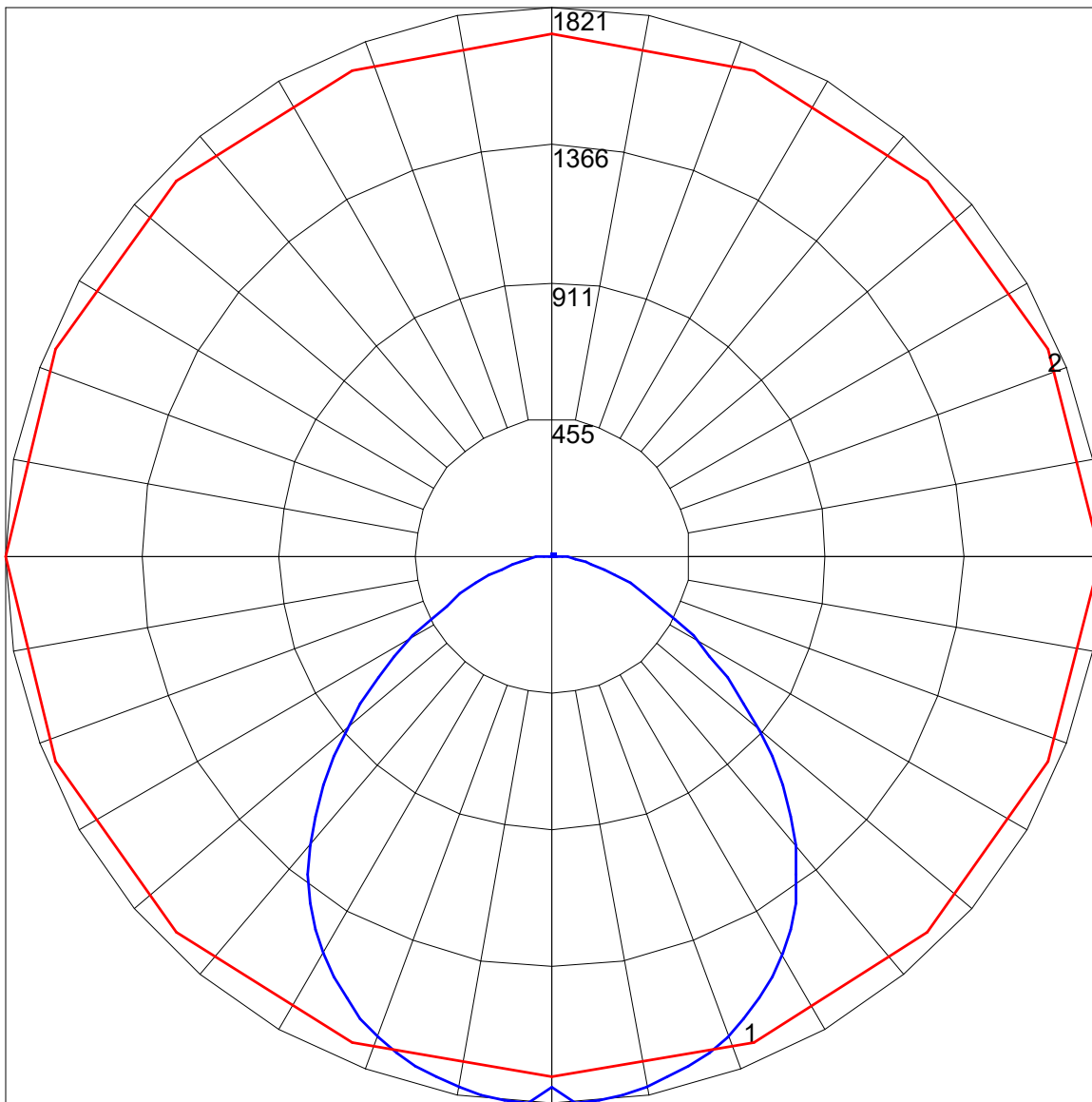
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	98	94	90	92	88	85	86	83	81	81	79	77	74
2	96	88	81	75	93	85	79	74	80	75	70	75	71	67	71	68	65	62
3	88	77	69	63	85	75	67	61	71	64	59	67	61	57	63	59	55	52
4	81	69	60	53	77	67	59	52	63	56	51	59	54	49	56	51	47	45
5	74	61	52	46	71	60	51	45	56	49	44	54	47	42	51	45	41	39
6	68	55	46	40	66	54	46	40	51	44	38	48	42	37	46	41	36	34
7	63	50	42	35	61	49	41	35	46	39	34	44	38	33	42	37	32	30
8	59	46	37	32	57	45	37	31	43	36	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 1821.2 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)