



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-4265
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 07/17/13
[ISSUE DATE] 05/02/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] W444-LED-HO-CW
[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] 5000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6095
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.36
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	13800	13985	14224
55	11190	13147	14109
65	8346	12574	13792
75	6145	13050	14315
85	5582	23724	25978

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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	1939.52	1939.52	1939.52	1939.52	1939.52
2.5	1998.68	1959.24	1939.52	1916.32	1900.08
5.0	1994.04	1955.76	1938.36	1917.48	1902.40
7.5	1985.92	1949.96	1936.04	1916.32	1902.40
10.0	1972.00	1939.52	1927.92	1910.52	1895.44
12.5	1955.76	1925.60	1915.16	1897.76	1882.68
15.0	1932.56	1905.88	1896.60	1879.20	1864.12
17.5	1907.04	1882.68	1872.24	1852.52	1836.28
20.0	1874.56	1853.68	1840.92	1820.04	1802.64
22.5	1838.60	1818.88	1803.80	1778.28	1759.72
25.0	1795.68	1778.28	1758.56	1729.56	1711.00
27.5	1746.96	1730.72	1707.52	1676.20	1656.48
30.0	1691.28	1677.36	1649.52	1617.04	1598.48
32.5	1628.64	1617.04	1586.88	1555.56	1539.32
35.0	1560.20	1549.76	1519.60	1492.92	1479.00
37.5	1482.48	1475.52	1447.68	1429.12	1419.84
40.0	1397.80	1395.48	1374.60	1366.48	1361.84
42.5	1306.16	1309.64	1300.36	1305.00	1303.84
45.0	1209.88	1220.32	1226.12	1243.52	1247.00
47.5	1106.64	1127.52	1151.88	1182.04	1189.00
50.0	1002.24	1034.72	1078.80	1120.56	1129.84
52.5	897.84	941.92	1005.72	1057.92	1068.36
55.0	795.76	851.44	934.96	992.96	1003.40
57.5	697.16	763.28	864.20	926.84	936.12
60.0	604.36	679.76	794.60	858.40	866.52
62.5	516.20	600.88	726.16	788.80	794.60
65.0	437.32	526.64	658.88	719.20	722.68
67.5	372.36	459.36	593.92	649.60	653.08
70.0	307.40	399.04	531.28	583.48	584.64
72.5	249.40	345.68	473.28	519.68	519.68
75.0	197.20	294.64	418.76	460.52	459.36
77.5	151.96	249.40	374.68	407.16	406.00
80.0	118.32	209.96	331.76	364.24	361.92
82.5	90.48	176.32	292.32	320.16	319.00
85.0	60.32	146.16	256.36	281.88	280.72
87.5	35.96	124.12	223.88	248.24	247.08
90.0	13.92	103.24	194.88	220.40	219.24
92.5	8.12	96.28	179.80	204.16	203.00
95.0	8.12	91.64	171.68	194.88	193.72
97.5	8.12	88.16	163.56	186.76	185.60
100.0	6.96	84.68	156.60	179.80	178.64
102.5	6.96	81.20	150.80	174.00	174.00
105.0	6.96	78.88	145.00	169.36	169.36
107.5	6.96	75.40	139.20	164.72	165.88
110.0	6.96	73.08	134.56	160.08	161.24
112.5	5.80	70.76	128.76	154.28	157.76
115.0	6.96	68.44	125.28	149.64	153.12
117.5	6.96	63.80	120.64	143.84	148.48
120.0	5.80	61.48	118.32	138.04	142.68
122.5	6.96	60.32	117.16	132.24	136.88
125.0	5.80	56.84	111.36	126.44	132.24
127.5	5.80	54.52	105.56	122.96	126.44
130.0	5.80	51.04	99.76	118.32	119.48
132.5	5.80	48.72	93.96	117.16	118.32

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CANDELA TABULATION - (Cont.)

135.0	6.96	45.24	88.16	110.20	117.16
137.5	6.96	42.92	82.36	104.40	110.20
140.0	5.80	40.60	76.56	97.44	103.24
142.5	6.96	37.12	70.76	90.48	96.28
145.0	6.96	33.64	64.96	84.68	90.48
147.5	6.96	31.32	59.16	77.72	83.52
150.0	6.96	29.00	55.68	71.92	76.56
152.5	6.96	25.52	49.88	64.96	69.60
155.0	6.96	23.20	45.24	59.16	62.64
157.5	6.96	20.88	39.44	52.20	56.84
160.0	8.12	18.56	33.64	46.40	49.88
162.5	6.96	17.40	29.00	39.44	42.92
165.0	8.12	15.08	24.36	33.64	37.12
167.5	8.12	12.76	20.88	27.84	30.16
170.0	8.12	10.44	17.40	23.20	24.36
172.5	6.96	9.28	13.92	17.40	18.56
175.0	6.96	8.12	9.28	12.76	12.76
177.5	6.96	6.96	8.12	8.12	8.12
180.0	6.96	6.96	6.96	6.96	6.96

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	719.45	N.A.	11.80
0-30	1527.07	N.A.	25.10
0-40	2477.13	N.A.	40.60
0-60	4248.21	N.A.	69.70
0-80	5267.73	N.A.	86.40
0-90	5504.65	N.A.	90.30
10-90	5319.83	N.A.	87.30
20-40	1757.68	N.A.	28.80
20-50	2705.87	N.A.	44.40
40-70	2388.82	N.A.	39.20
60-80	1019.51	N.A.	16.70
70-80	401.78	N.A.	6.60
80-90	236.92	N.A.	3.90
90-110	281.23	N.A.	4.60
90-120	385.98	N.A.	6.30
90-130	467.77	N.A.	7.70
90-150	563.51	N.A.	9.20
90-180	590.72	N.A.	9.70
110-180	309.49	N.A.	5.10
0-180	6095.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	184.82
10-20	534.63
20-30	807.63
30-40	950.06
40-50	948.18
50-60	822.90
60-70	617.74
70-80	401.78
80-90	236.92
90-100	153.79
100-110	127.44
110-120	104.75
120-130	81.80
130-140	59.04
140-150	36.70
150-160	19.00
160-170	7.03
170-180	1.18

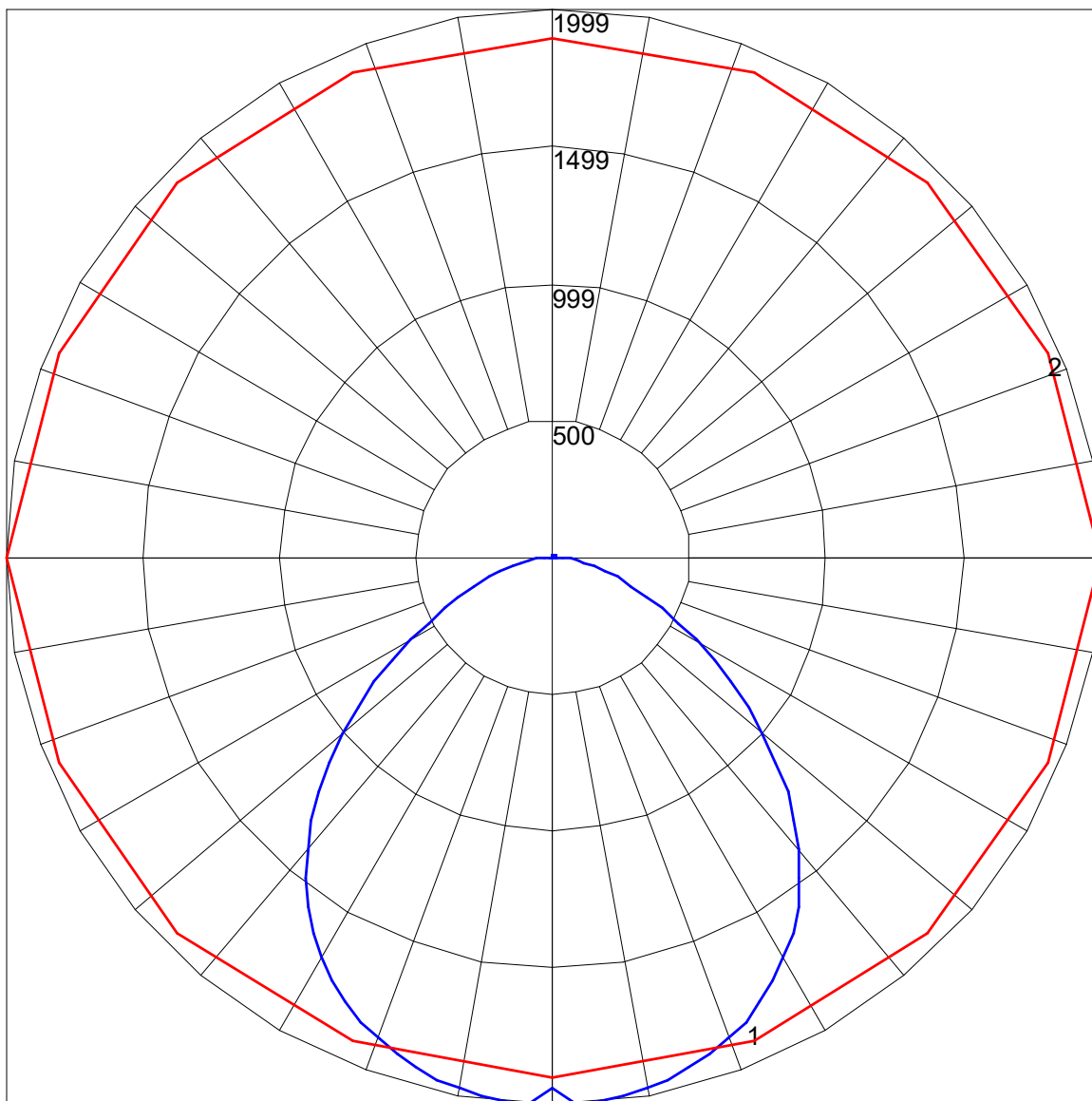
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93	90	91	88	85	86	83	81	81	79	77	74
2	96	88	81	75	93	85	79	73	80	75	70	75	71	67	71	67	64	62
3	88	77	69	62	84	75	67	61	70	64	59	66	61	57	63	58	55	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	49	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	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	30	25	36	29	25	35	28	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 1998.68 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.)