



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : W444-LED-SS-WW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-4261  
[TESTLAB] LSI INDUSTRIES, INC.  
[TESTDATE] 07/15/13  
[ISSUEDATE] 05/02/23  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] W444-LED-SS-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	4010
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	35
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.24
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	9143	9222	9368
55	7373	8563	9232
65	5534	8102	8899
75	3904	8459	9218
85	3435	14706	16102

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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>
<b>0.0</b>	1299.20	1299.20	1299.20	1299.20	1299.20
<b>2.5</b>	1336.32	1313.12	1298.04	1285.28	1273.68
<b>5.0</b>	1334.00	1310.80	1296.88	1286.44	1274.84
<b>7.5</b>	1328.20	1306.16	1294.56	1285.28	1273.68
<b>10.0</b>	1318.92	1299.20	1288.76	1281.80	1270.20
<b>12.5</b>	1306.16	1288.76	1280.64	1273.68	1263.24
<b>15.0</b>	1291.08	1276.00	1269.04	1262.08	1251.64
<b>17.5</b>	1272.52	1259.76	1253.96	1247.00	1235.40
<b>20.0</b>	1250.48	1240.04	1233.08	1224.96	1213.36
<b>22.5</b>	1224.96	1215.68	1208.72	1198.28	1185.52
<b>25.0</b>	1195.96	1187.84	1179.72	1165.80	1151.88
<b>27.5</b>	1163.48	1156.52	1144.92	1128.68	1113.60
<b>30.0</b>	1126.36	1120.56	1105.48	1086.92	1071.84
<b>32.5</b>	1083.44	1079.96	1061.40	1042.84	1028.92
<b>35.0</b>	1037.04	1034.72	1013.84	997.60	986.00
<b>37.5</b>	984.84	983.68	963.96	951.20	943.08
<b>40.0</b>	928.00	929.16	912.92	907.12	901.32
<b>42.5</b>	866.52	871.16	860.72	863.04	860.72
<b>45.0</b>	801.56	809.68	808.52	821.28	821.28
<b>47.5</b>	733.12	745.88	757.48	778.36	781.84
<b>50.0</b>	663.52	683.24	706.44	736.60	742.40
<b>52.5</b>	593.92	619.44	657.72	693.68	699.48
<b>55.0</b>	524.32	557.96	609.00	650.76	656.56
<b>57.5</b>	457.04	498.80	561.44	605.52	610.16
<b>60.0</b>	396.72	441.96	515.04	559.12	563.76
<b>62.5</b>	343.36	392.08	468.64	511.56	515.04
<b>65.0</b>	290.00	345.68	424.56	465.16	466.32
<b>67.5</b>	241.28	300.44	383.96	421.08	422.24
<b>70.0</b>	198.36	258.68	345.68	375.84	375.84
<b>72.5</b>	158.92	221.56	306.24	336.40	335.24
<b>75.0</b>	125.28	187.92	271.44	296.96	295.80
<b>77.5</b>	105.56	157.76	237.80	261.00	259.84
<b>80.0</b>	78.88	131.08	209.96	229.68	227.36
<b>82.5</b>	56.84	117.16	183.28	200.68	198.36
<b>85.0</b>	37.12	99.76	158.92	175.16	174.00
<b>87.5</b>	20.88	82.36	138.04	153.12	151.96
<b>90.0</b>	5.80	67.28	122.96	136.88	135.72
<b>92.5</b>	2.32	60.32	117.16	125.28	124.12
<b>95.0</b>	2.32	56.84	113.68	120.64	121.80
<b>97.5</b>	2.32	54.52	109.04	118.32	121.80
<b>100.0</b>	2.32	52.20	104.40	119.48	118.32
<b>102.5</b>	2.32	49.88	100.92	116.00	114.84
<b>105.0</b>	2.32	48.72	97.44	112.52	112.52
<b>107.5</b>	2.32	46.40	93.96	109.04	110.20
<b>110.0</b>	2.32	45.24	90.48	106.72	107.88
<b>112.5</b>	2.32	42.92	87.00	103.24	104.40
<b>115.0</b>	2.32	41.76	83.52	99.76	102.08
<b>117.5</b>	2.32	40.60	80.04	96.28	98.60
<b>120.0</b>	2.32	38.28	76.56	92.80	96.28
<b>122.5</b>	2.32	37.12	73.08	89.32	92.80
<b>125.0</b>	2.32	34.80	69.60	85.84	88.16
<b>127.5</b>	2.32	33.64	66.12	82.36	84.68
<b>130.0</b>	2.32	31.32	61.48	77.72	81.20
<b>132.5</b>	2.32	30.16	58.00	74.24	77.72

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	2.32	27.84	54.52	69.60	73.08
<b>137.5</b>	2.32	26.68	51.04	66.12	69.60
<b>140.0</b>	2.32	24.36	47.56	60.32	64.96
<b>142.5</b>	2.32	22.04	44.08	56.84	61.48
<b>145.0</b>	3.48	20.88	40.60	53.36	55.68
<b>147.5</b>	2.32	18.56	37.12	48.72	52.20
<b>150.0</b>	3.48	17.40	33.64	45.24	47.56
<b>152.5</b>	3.48	15.08	31.32	40.60	42.92
<b>155.0</b>	3.48	13.92	27.84	37.12	39.44
<b>157.5</b>	3.48	12.76	24.36	32.48	34.80
<b>160.0</b>	3.48	10.44	20.88	29.00	31.32
<b>162.5</b>	3.48	9.28	17.40	24.36	26.68
<b>165.0</b>	3.48	8.12	15.08	20.88	22.04
<b>167.5</b>	3.48	6.96	12.76	17.40	17.40
<b>170.0</b>	4.64	5.80	10.44	13.92	13.92
<b>172.5</b>	3.48	4.64	6.96	9.28	10.44
<b>175.0</b>	3.48	4.64	5.80	6.96	6.96
<b>177.5</b>	3.48	3.48	3.48	4.64	4.64
<b>180.0</b>	3.48	3.48	3.48	3.48	3.48

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	482.03	N.A.	12.00
0-30	1023.42	N.A.	25.50
0-40	1657.13	N.A.	41.30
0-60	2822.55	N.A.	70.40
0-80	3481.86	N.A.	86.80
0-90	3631.02	N.A.	90.50
10-90	3507.24	N.A.	87.50
20-40	1175.09	N.A.	29.30
20-50	1801.89	N.A.	44.90
40-70	1566.54	N.A.	39.10
60-80	659.31	N.A.	16.40
70-80	258.20	N.A.	6.40
80-90	149.16	N.A.	3.70
90-110	181.17	N.A.	4.50
90-120	249.99	N.A.	6.20
90-130	302.95	N.A.	7.60
90-150	362.61	N.A.	9.00
90-180	379.15	N.A.	9.50
110-180	197.98	N.A.	4.90
0-180	4010.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	123.78
10-20	358.25
20-30	541.39
30-40	633.71
40-50	626.80
50-60	538.63
60-70	401.11
70-80	258.20
80-90	149.16
90-100	97.55
100-110	83.62
110-120	68.82
120-130	52.96
130-140	36.95
140-150	22.71
150-160	11.69
160-170	4.20
170-180	0.65

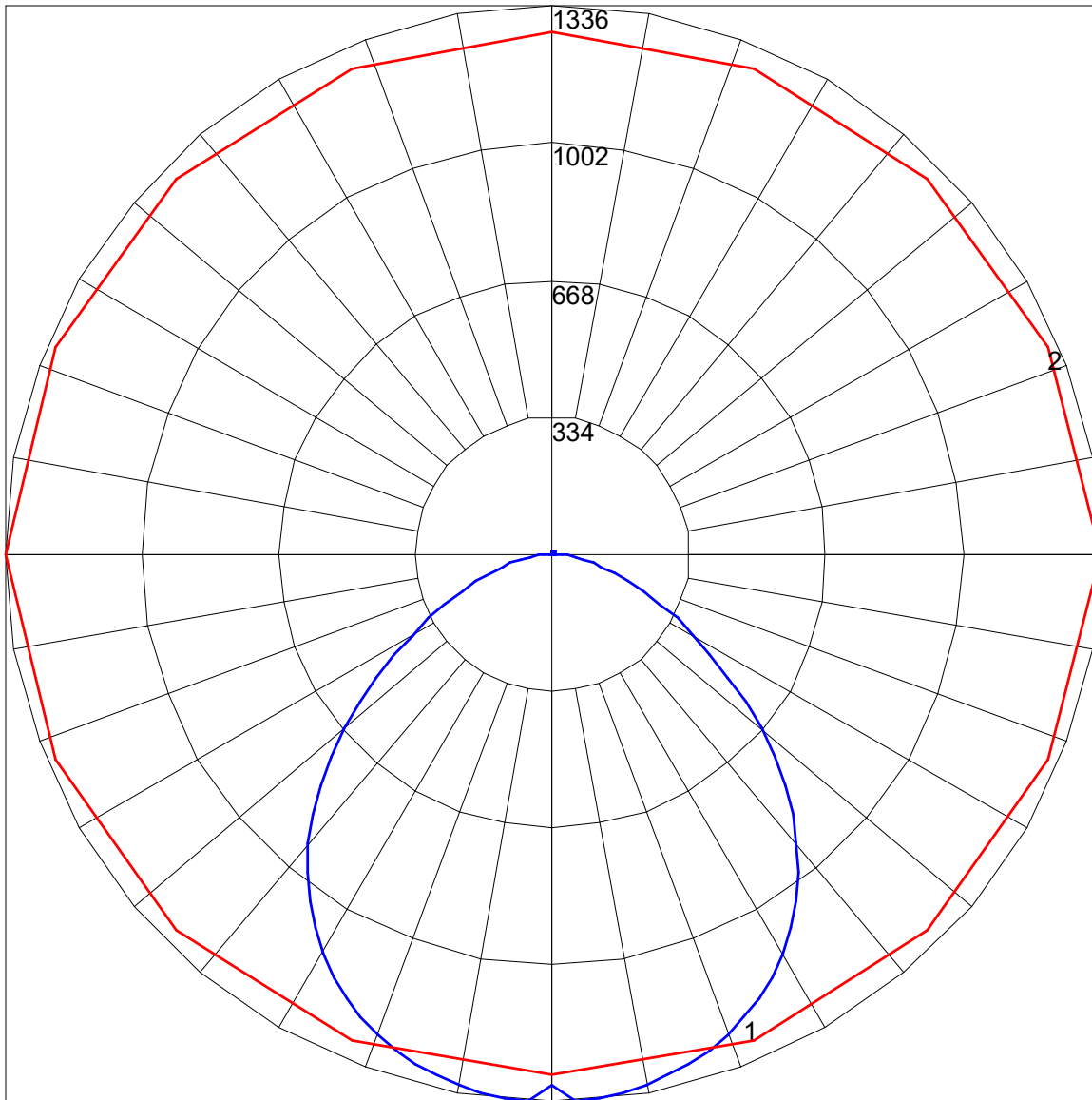
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	91
1	106	101	97	92	102	98	94	90	92	89	86	86	84	81	81	79	77	74
2	96	88	81	75	93	85	79	74	80	75	71	76	71	68	71	68	65	62
3	88	77	69	63	85	75	68	62	71	65	59	67	62	57	63	59	55	52
4	81	69	60	53	78	67	59	52	63	56	51	60	54	49	56	51	47	45
5	74	61	53	46	71	60	52	45	57	49	44	54	47	43	51	46	41	39
6	69	55	47	40	66	54	46	40	51	44	39	49	42	38	46	41	36	34
7	64	50	42	36	61	49	41	35	47	39	34	44	38	33	42	37	32	30
8	59	46	37	32	57	45	37	31	43	36	31	41	34	30	39	33	29	27
9	55	42	34	29	53	41	33	28	39	32	28	38	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22

POLAR GRAPH



Maximum Candela = 1336.32 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.)