



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : W442-LED-SS-WW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-4263  
[TESTLAB] LSI INDUSTRIES, INC.  
[TESTDATE] 07/16/13  
[ISSUEDATE] 05/02/23  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] W442-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	3353
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	29
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 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	13972	14925	15824
55	11027	13865	15757
65	8368	13460	15585
75	6651	14242	16700
85	5797	25978	30272

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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	1105.48	1105.48	1105.48	1105.48	1105.48
2.5	1128.68	1119.40	1104.32	1090.40	1084.60
5.0	1125.20	1115.92	1103.16	1090.40	1084.60
7.5	1118.24	1110.12	1099.68	1086.92	1081.12
10.0	1107.80	1102.00	1091.56	1079.96	1074.16
12.5	1095.04	1090.40	1081.12	1068.36	1063.72
15.0	1077.64	1075.32	1066.04	1054.44	1048.64
17.5	1057.92	1055.60	1047.48	1035.88	1030.08
20.0	1034.72	1033.56	1024.28	1012.68	1006.88
22.5	1006.88	1006.88	997.60	986.00	980.20
25.0	976.72	976.72	967.44	957.00	951.20
27.5	941.92	944.24	934.96	924.52	919.88
30.0	904.80	907.12	899.00	892.04	888.56
32.5	863.04	866.52	860.72	857.24	856.08
35.0	818.96	823.60	820.12	822.44	822.44
37.5	771.40	778.36	779.52	787.64	789.96
40.0	720.36	729.64	737.76	752.84	758.64
42.5	667.00	679.76	696.00	718.04	726.16
45.0	612.48	629.88	654.24	683.24	693.68
47.5	555.64	577.68	612.48	649.60	662.36
50.0	499.96	527.80	571.88	614.80	628.72
52.5	444.28	477.92	531.28	580.00	595.08
55.0	392.08	430.36	493.00	545.20	560.28
57.5	348.00	386.28	454.72	509.24	523.16
60.0	300.44	348.00	417.60	472.12	486.04
62.5	257.52	307.40	382.80	435.00	446.60
65.0	219.24	270.28	352.64	397.88	408.32
67.5	182.12	236.64	319.00	366.56	372.36
70.0	150.80	205.32	287.68	331.76	337.56
72.5	121.80	176.32	257.52	296.96	301.60
75.0	106.72	150.80	228.52	265.64	267.96
77.5	83.52	128.76	204.16	235.48	237.80
80.0	63.80	116.00	180.96	208.80	209.96
82.5	46.40	100.92	160.08	185.60	184.44
85.0	31.32	85.84	140.36	163.56	163.56
87.5	18.56	71.92	124.12	145.00	143.84
90.0	6.96	58.00	118.32	127.60	126.44
92.5	4.64	53.36	110.20	118.32	122.96
95.0	4.64	51.04	105.56	118.32	121.80
97.5	3.48	48.72	100.92	118.32	117.16
100.0	3.48	47.56	97.44	114.84	113.68
102.5	3.48	45.24	93.96	111.36	111.36
105.0	3.48	44.08	90.48	107.88	107.88
107.5	3.48	42.92	87.00	104.40	105.56
110.0	3.48	41.76	84.68	102.08	103.24
112.5	3.48	39.44	81.20	98.60	100.92
115.0	3.48	38.28	77.72	96.28	97.44
117.5	3.48	37.12	75.40	92.80	95.12
120.0	3.48	35.96	71.92	89.32	92.80
122.5	3.48	33.64	69.60	85.84	89.32
125.0	3.48	32.48	64.96	82.36	85.84
127.5	3.48	31.32	62.64	77.72	82.36
130.0	3.48	30.16	59.16	74.24	77.72
132.5	3.48	27.84	55.68	70.76	74.24

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CANDELA TABULATION - (Cont.)

135.0	3.48	26.68	52.20	66.12	69.60
137.5	3.48	24.36	48.72	62.64	66.12
140.0	2.32	23.20	45.24	59.16	62.64
142.5	2.32	20.88	41.76	54.52	58.00
145.0	3.48	19.72	38.28	49.88	54.52
147.5	3.48	18.56	35.96	46.40	49.88
150.0	3.48	16.24	32.48	42.92	45.24
152.5	3.48	15.08	29.00	38.28	41.76
155.0	3.48	13.92	26.68	34.80	37.12
157.5	3.48	11.60	23.20	31.32	33.64
160.0	3.48	10.44	19.72	26.68	29.00
162.5	3.48	9.28	17.40	23.20	25.52
165.0	3.48	8.12	15.08	19.72	20.88
167.5	3.48	6.96	11.60	16.24	17.40
170.0	3.48	5.80	9.28	12.76	13.92
172.5	3.48	4.64	6.96	9.28	10.44
175.0	3.48	3.48	4.64	6.96	6.96
177.5	3.48	3.48	3.48	4.64	3.48
180.0	3.48	3.48	3.48	3.48	3.48

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	404.95	N.A.	12.10
0-30	849.55	N.A.	25.30
0-40	1363.3	N.A.	40.70
0-60	2304.37	N.A.	68.70
0-80	2857.81	N.A.	85.20
0-90	2992.61	N.A.	89.30
10-90	2887.66	N.A.	86.10
20-40	958.34	N.A.	28.60
20-50	1463.75	N.A.	43.70
40-70	1272.79	N.A.	38.00
60-80	553.44	N.A.	16.50
70-80	221.72	N.A.	6.60
80-90	134.80	N.A.	4.00
90-110	171.58	N.A.	5.10
90-120	236.92	N.A.	7.10
90-130	287.44	N.A.	8.60
90-150	344.48	N.A.	10.30
90-180	360.25	N.A.	10.70
110-180	188.67	N.A.	5.60
0-180	3352.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.95
10-20	300.01
20-30	444.60
30-40	513.74
40-50	505.41
50-60	435.66
60-70	331.72
70-80	221.72
80-90	134.80
90-100	92.52
100-110	79.05
110-120	65.35
120-130	50.51
130-140	35.32
140-150	21.72
150-160	11.13
160-170	4.02
170-180	0.62

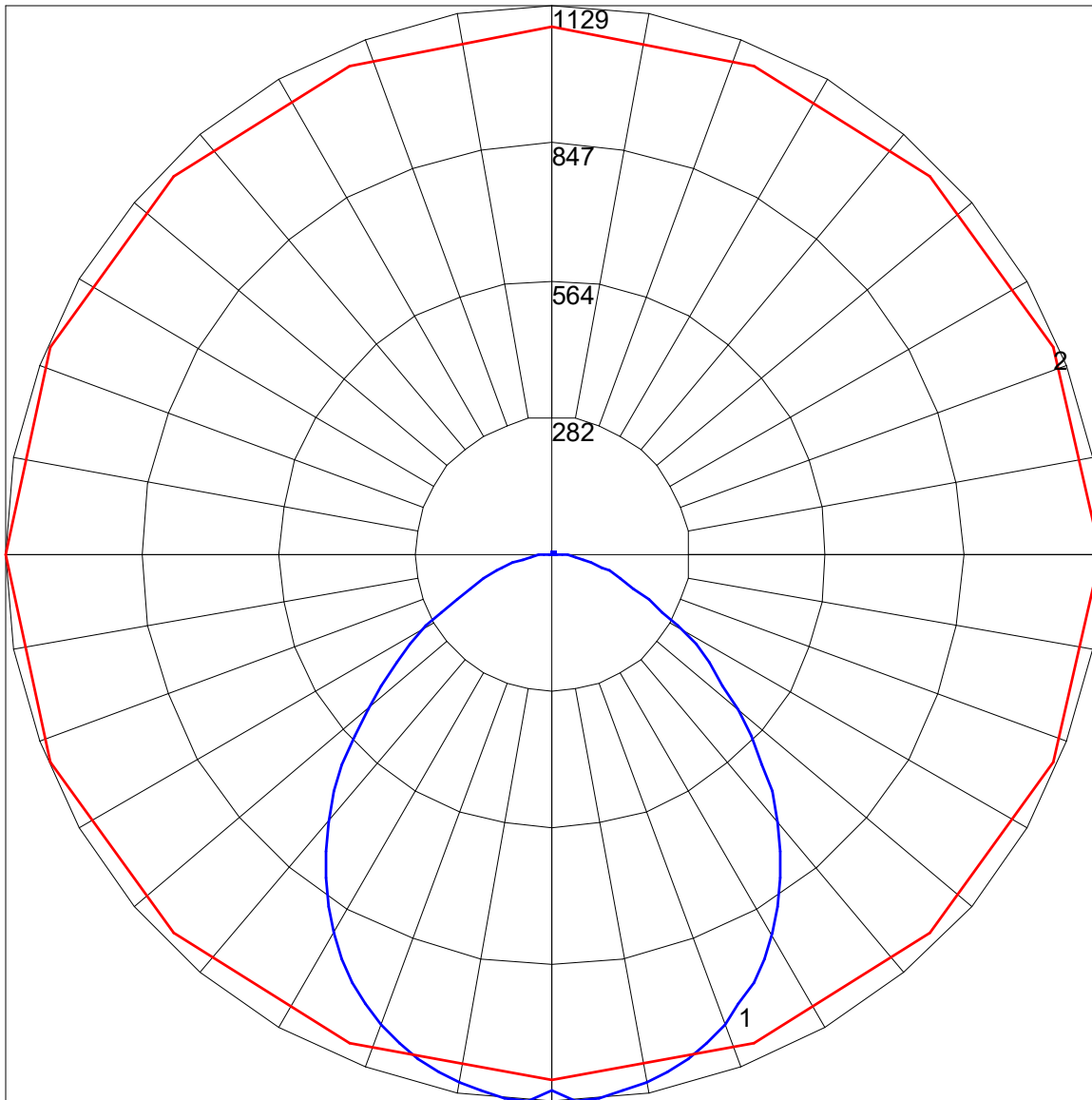
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	113	113	113	113	105	105	105	98	98	98	92	92	92	89
1	106	100	96	92	102	97	93	89	91	88	85	85	83	80	80	78	76	73
2	96	88	81	75	92	85	78	73	79	74	70	75	70	67	70	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	51
4	80	68	60	53	77	66	58	52	62	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	38
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	32	57	45	37	31	42	35	30	40	34	30	38	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	35	30	26	24
10	52	39	31	26	50	38	30	25	36	29	25	35	29	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 1128.68 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.)