



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

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-4256  
[TESTLAB] LSI INDUSTRIES, INC.  
[TESTDATE] 07/13/13  
[ISSUE DATE] 05/02/23  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] W442-LED-SS-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	3646
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	29
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.22
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	15242	16301	17306
55	12038	15235	17257
65	9032	14655	17135
75	6940	15761	18436
85	6011	28769	33277

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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	1187.84	1187.84	1187.84	1187.84	1187.84
2.5	1215.68	1204.08	1186.68	1171.60	1164.64
5.0	1211.04	1200.60	1184.36	1170.44	1165.80
7.5	1204.08	1194.80	1180.88	1168.12	1162.32
10.0	1194.80	1186.68	1173.92	1161.16	1155.36
12.5	1180.88	1175.08	1162.32	1150.72	1144.92
15.0	1163.48	1158.84	1147.24	1135.64	1129.84
17.5	1142.60	1139.12	1127.52	1115.92	1110.12
20.0	1118.24	1115.92	1104.32	1088.08	1085.76
22.5	1089.24	1089.24	1077.64	1064.88	1059.08
25.0	1057.92	1057.92	1046.32	1034.72	1028.92
27.5	1021.96	1023.12	1011.52	1001.08	996.44
30.0	982.52	983.68	974.40	966.28	962.80
32.5	938.44	941.92	933.80	930.32	929.16
35.0	890.88	896.68	892.04	894.36	894.36
37.5	839.84	847.96	847.96	857.24	860.72
40.0	785.32	796.92	803.88	820.12	825.92
42.5	728.48	743.56	758.64	784.16	792.28
45.0	668.16	687.88	714.56	747.04	758.64
47.5	606.68	633.36	670.48	711.08	723.84
50.0	546.36	578.84	626.40	673.96	689.04
52.5	486.04	524.32	583.48	636.84	651.92
55.0	428.04	472.12	541.72	598.56	613.64
57.5	375.84	422.24	499.96	559.12	574.20
60.0	327.12	379.32	460.52	519.68	533.60
62.5	280.72	338.72	421.08	479.08	491.84
65.0	236.64	298.12	383.96	438.48	448.92
67.5	198.36	259.84	351.48	397.88	407.16
70.0	162.40	225.04	316.68	361.92	368.88
72.5	131.08	193.72	283.04	327.12	331.76
75.0	111.36	165.88	252.88	292.32	295.80
77.5	88.16	141.52	225.04	259.84	262.16
80.0	66.12	119.48	199.52	230.84	232.00
82.5	47.56	107.88	176.32	204.16	204.16
85.0	32.48	92.80	155.44	180.96	179.80
87.5	17.40	77.72	136.88	160.08	158.92
90.0	4.64	63.80	121.80	141.52	140.36
92.5	1.16	58.00	114.84	131.08	129.92
95.0	1.16	55.68	112.52	125.28	122.96
97.5	1.16	53.36	110.20	119.48	118.32
100.0	1.16	51.04	106.72	117.16	119.48
102.5	1.16	48.72	102.08	116.00	116.00
105.0	1.16	47.56	98.60	113.68	118.32
107.5	1.16	46.40	95.12	111.36	114.84
110.0	1.16	45.24	91.64	111.36	112.52
112.5	1.16	42.92	88.16	107.88	110.20
115.0	2.32	41.76	84.68	104.40	106.72
117.5	2.32	39.44	81.20	100.92	103.24
120.0	2.32	38.28	77.72	97.44	99.76
122.5	2.32	37.12	74.24	92.80	96.28
125.0	2.32	34.80	70.76	89.32	92.80
127.5	2.32	33.64	67.28	84.68	88.16
130.0	2.32	32.48	63.80	80.04	84.68
132.5	2.32	30.16	60.32	76.56	80.04

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	2.32	29.00	55.68	71.92	75.40
<b>137.5</b>	2.32	26.68	52.20	68.44	71.92
<b>140.0</b>	2.32	24.36	48.72	63.80	68.44
<b>142.5</b>	2.32	23.20	45.24	59.16	61.48
<b>145.0</b>	2.32	20.88	41.76	54.52	58.00
<b>147.5</b>	3.48	18.56	38.28	49.88	53.36
<b>150.0</b>	2.32	17.40	34.80	45.24	49.88
<b>152.5</b>	3.48	16.24	31.32	41.76	45.24
<b>155.0</b>	3.48	13.92	27.84	37.12	39.44
<b>157.5</b>	3.48	12.76	25.52	33.64	35.96
<b>160.0</b>	3.48	10.44	22.04	29.00	31.32
<b>162.5</b>	3.48	9.28	18.56	25.52	27.84
<b>165.0</b>	3.48	8.12	15.08	20.88	23.20
<b>167.5</b>	3.48	6.96	12.76	16.24	18.56
<b>170.0</b>	3.48	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	3.48	4.64	6.96	6.96
<b>177.5</b>	3.48	3.48	3.48	3.48	3.48
<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	436.06	N.A.	12.00
0-30	917.05	N.A.	25.20
0-40	1475.69	N.A.	40.50
0-60	2505.75	N.A.	68.70
0-80	3112.8	N.A.	85.40
0-90	3260.1	N.A.	89.40
10-90	3147.26	N.A.	86.30
20-40	1039.63	N.A.	28.50
20-50	1591.99	N.A.	43.70
40-70	1393.87	N.A.	38.20
60-80	607.04	N.A.	16.70
70-80	243.24	N.A.	6.70
80-90	147.31	N.A.	4.00
90-110	182.29	N.A.	5.00
90-120	253.02	N.A.	6.90
90-130	307.44	N.A.	8.40
90-150	368.83	N.A.	10.10
90-180	385.64	N.A.	10.60
110-180	203.36	N.A.	5.60
0-180	3645.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	112.84
10-20	323.22
20-30	480.99
30-40	558.64
40-50	552.36
50-60	477.71
60-70	363.80
70-80	243.24
80-90	147.31
90-100	97.89
100-110	84.40
110-120	70.73
120-130	54.42
130-140	38.08
140-150	23.31
150-160	11.92
160-170	4.27
170-180	0.62

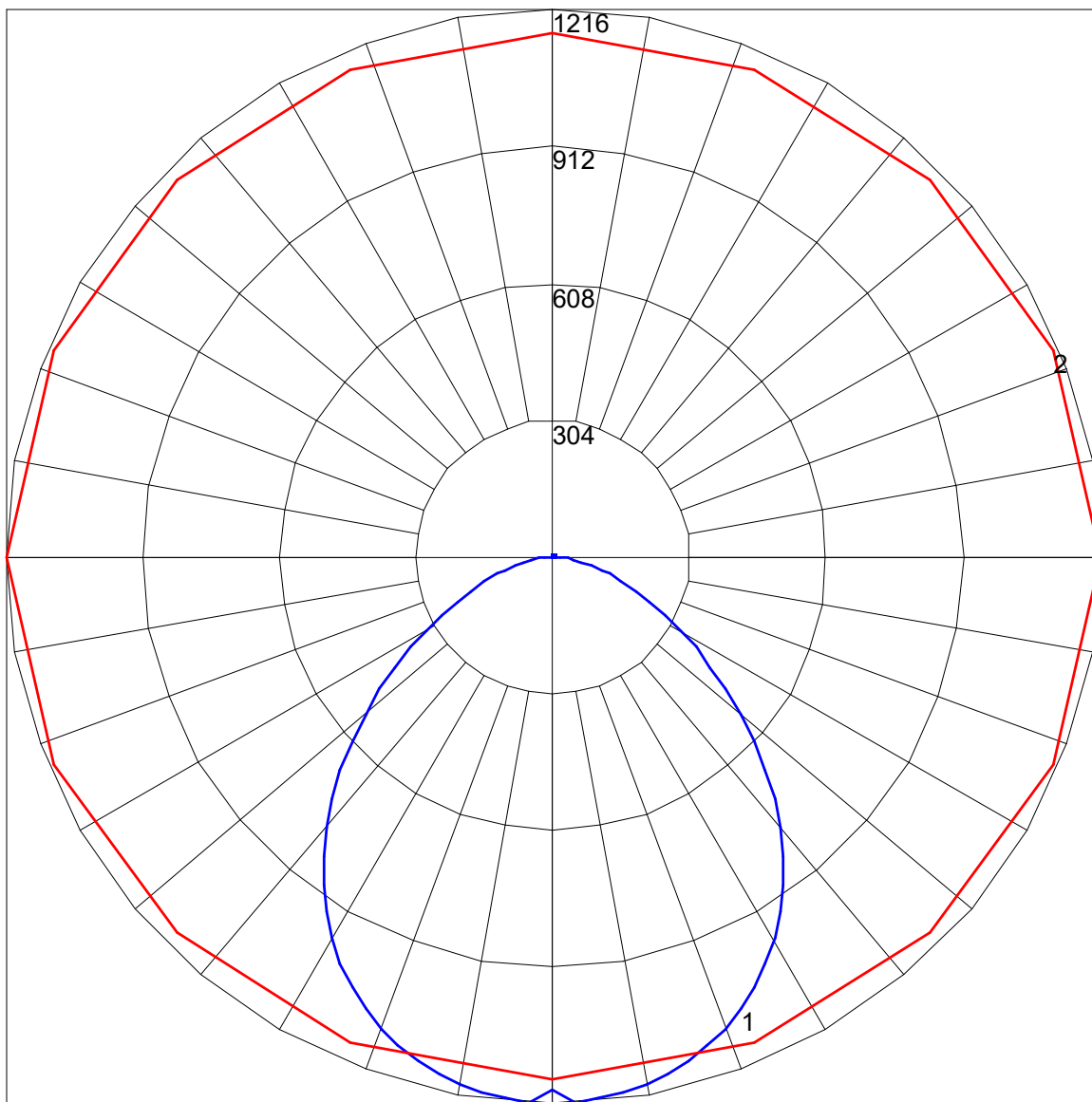
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	117	117	117	117	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	55	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	43	53	47	42	50	45	41	38
6	68	55	46	40	66	54	45	39	51	43	38	48	42	37	45	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	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	34	28	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 1215.68 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.)