



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : W448-LED-SS-CW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-4254  
[TESTLAB] LSI INDUSTRIES, INC.  
[TESTDATE] 07/12/13  
[ISSUE DATE] 05/02/23  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] W448-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	8850
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	70
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	20166	20451	20805
55	16283	19053	20488
65	12271	18016	19752
75	8601	18791	20474
85	7496	32852	35628

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**CANDELA TABULATION**

	<u><b>0.0</b></u>	<u><b>22.5</b></u>	<u><b>45.0</b></u>	<u><b>67.5</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	2833	2833	2833	2833	2833
<b>2.5</b>	2912	2863	2830	2803	2779
<b>5.0</b>	2902	2858	2828	2805	2784
<b>7.5</b>	2891	2849	2826	2805	2784
<b>10.0</b>	2872	2835	2814	2796	2777
<b>12.5</b>	2847	2816	2798	2782	2763
<b>15.0</b>	2816	2789	2775	2761	2742
<b>17.5</b>	2777	2756	2745	2728	2710
<b>20.0</b>	2733	2714	2703	2684	2663
<b>22.5</b>	2677	2666	2654	2629	2605
<b>25.0</b>	2617	2610	2589	2559	2533
<b>27.5</b>	2547	2543	2517	2480	2452
<b>30.0</b>	2468	2466	2434	2392	2364
<b>32.5</b>	2378	2378	2341	2297	2271
<b>35.0</b>	2278	2283	2239	2199	2178
<b>37.5</b>	2165	2174	2130	2100	2083
<b>40.0</b>	2044	2056	2018	2004	1995
<b>42.5</b>	1909	1928	1905	1909	1907
<b>45.0</b>	1768	1793	1793	1817	1824
<b>47.5</b>	1619	1656	1680	1726	1735
<b>50.0</b>	1466	1517	1571	1633	1647
<b>52.5</b>	1308	1376	1462	1540	1554
<b>55.0</b>	1158	1241	1355	1443	1457
<b>57.5</b>	1012	1109	1250	1343	1357
<b>60.0</b>	875	984	1146	1241	1250
<b>62.5</b>	752	865	1044	1137	1144
<b>65.0</b>	643	763	944	1032	1035
<b>67.5</b>	534	668	849	928	930
<b>70.0</b>	438	575	763	828	828
<b>72.5</b>	353	492	682	740	740
<b>75.0</b>	276	415	603	659	657
<b>77.5</b>	230	350	531	580	575
<b>80.0</b>	174	292	466	510	503
<b>82.5</b>	123	248	408	445	441
<b>85.0</b>	81	220	355	392	385
<b>87.5</b>	46	181	309	343	339
<b>90.0</b>	14	148	269	304	299
<b>92.5</b>	9	132	246	278	276
<b>95.0</b>	7	128	239	264	262
<b>97.5</b>	7	123	244	253	251
<b>100.0</b>	7	116	234	244	244
<b>102.5</b>	7	114	225	241	246
<b>105.0</b>	7	109	216	251	239
<b>107.5</b>	7	104	209	244	244
<b>110.0</b>	7	100	202	237	239
<b>112.5</b>	7	97	193	230	232
<b>115.0</b>	7	93	186	223	227
<b>117.5</b>	7	88	179	213	220
<b>120.0</b>	5	86	169	206	213
<b>122.5</b>	7	81	162	197	204
<b>125.0</b>	7	79	153	190	197
<b>127.5</b>	7	74	146	181	188
<b>130.0</b>	7	70	137	172	181
<b>132.5</b>	7	67	130	162	172

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**CANDELA TABULATION - (Cont.)**

<b>135.0</b>	7	63	121	153	162
<b>137.5</b>	7	58	114	146	153
<b>140.0</b>	7	53	107	137	144
<b>142.5</b>	7	49	97	128	135
<b>145.0</b>	7	44	90	116	125
<b>147.5</b>	7	42	84	109	116
<b>150.0</b>	7	37	77	100	107
<b>152.5</b>	9	32	67	90	97
<b>155.0</b>	7	30	60	81	86
<b>157.5</b>	9	28	53	72	79
<b>160.0</b>	9	23	46	63	70
<b>162.5</b>	9	21	39	53	58
<b>165.0</b>	9	19	32	44	49
<b>167.5</b>	9	16	28	37	39
<b>170.0</b>	9	14	21	30	32
<b>172.5</b>	9	12	16	21	23
<b>175.0</b>	9	9	12	14	16
<b>177.5</b>	9	7	9	9	9
<b>180.0</b>	7	7	7	7	7

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1053.39	N.A.	11.90
0-30	2242.03	N.A.	25.30
0-40	3639.55	N.A.	41.10
0-60	6223.41	N.A.	70.30
0-80	7684.15	N.A.	86.80
0-90	8014.67	N.A.	90.60
10-90	7744.66	N.A.	87.50
20-40	2586.15	N.A.	29.20
20-50	3974.16	N.A.	44.90
40-70	3472.48	N.A.	39.20
60-80	1460.73	N.A.	16.50
70-80	572.12	N.A.	6.50
80-90	330.52	N.A.	3.70
90-110	396.00	N.A.	4.50
90-120	549.26	N.A.	6.20
90-130	666.63	N.A.	7.50
90-150	799.26	N.A.	9.00
90-180	835.65	N.A.	9.40
110-180	439.64	N.A.	5.00
0-180	8850.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	270.01
10-20	783.38
20-30	1188.63
30-40	1397.52
40-50	1388.01
50-60	1195.86
60-70	888.62
70-80	572.12
80-90	330.52
90-100	212.22
100-110	183.78
110-120	153.26
120-130	117.37
130-140	82.10
140-150	50.53
150-160	25.72
160-170	9.24
170-180	1.43

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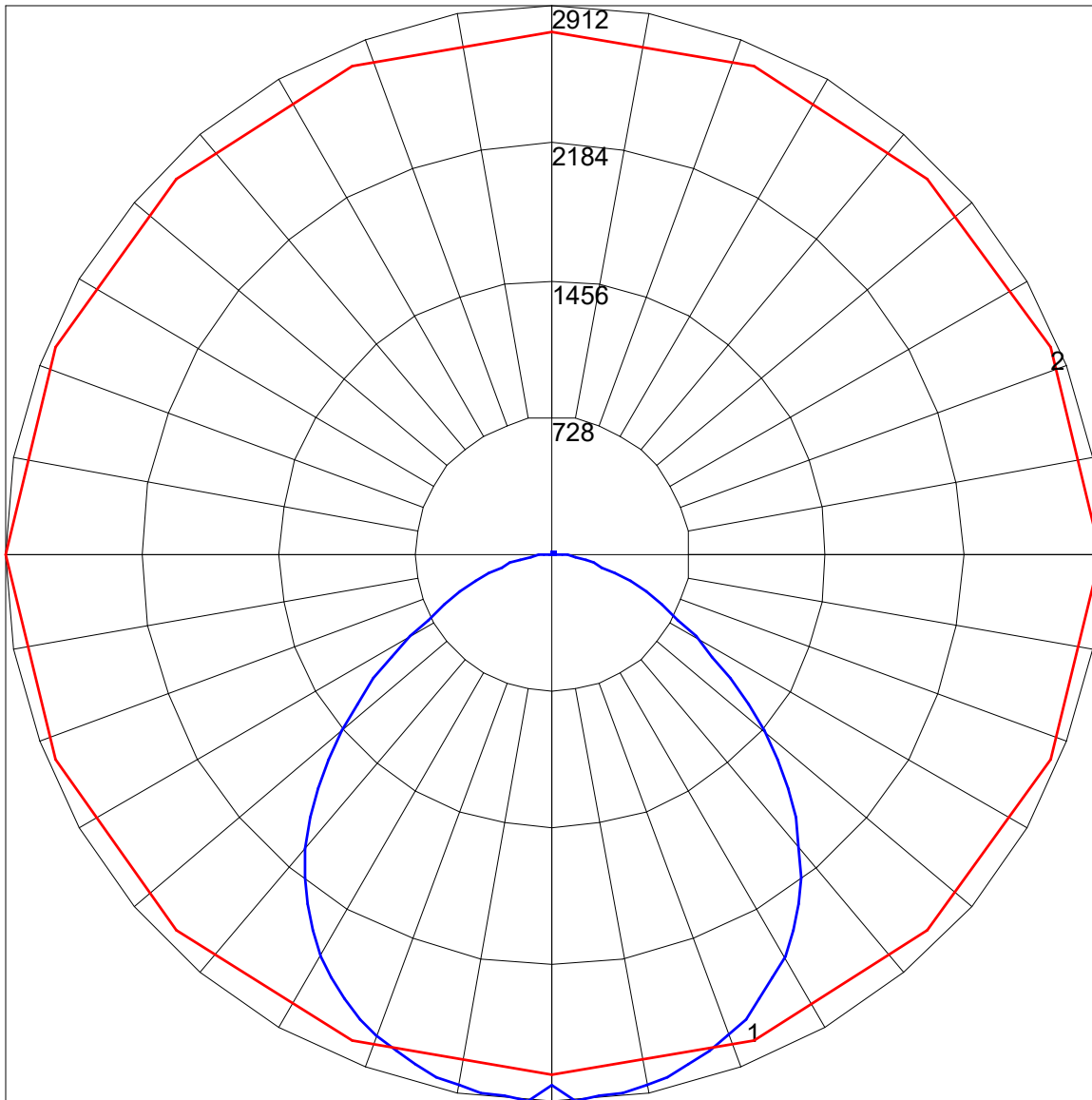
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	96	92	102	98	94	90	92	88	85	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	64	59	67	61	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	52	46	71	60	51	45	57	49	44	54	47	43	51	45	41	39
6	68	55	46	40	66	54	46	40	51	44	38	49	42	37	46	41	36	34
7	64	50	42	35	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	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	30	25	36	30	25	35	29	24	33	28	24	22

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POLAR GRAPH



Maximum Candela = 2912 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.)