



IES INDOOR REPORT
PHOTOMETRIC FILENAME : W448-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] W448-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	8021
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	70
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	18284	18444	18740
55	14751	17127	18463
65	11069	16203	17806
75	7822	16921	18448
85	6848	29428	32204

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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	2598	2598	2598	2598	2598
2.5	2673	2626	2596	2571	2547
5.0	2668	2622	2594	2573	2550
7.5	2656	2612	2589	2571	2547
10.0	2638	2598	2578	2564	2540
12.5	2612	2578	2561	2547	2526
15.0	2582	2552	2538	2524	2503
17.5	2545	2520	2508	2494	2471
20.0	2501	2480	2466	2450	2427
22.5	2450	2431	2417	2397	2371
25.0	2392	2376	2359	2332	2304
27.5	2327	2313	2290	2257	2227
30.0	2253	2241	2211	2174	2144
32.5	2167	2160	2123	2086	2058
35.0	2074	2069	2028	1995	1972
37.5	1970	1967	1928	1902	1886
40.0	1856	1858	1826	1814	1803
42.5	1733	1742	1721	1726	1721
45.0	1603	1619	1617	1643	1643
47.5	1466	1492	1515	1557	1564
50.0	1327	1366	1413	1473	1485
52.5	1188	1239	1315	1387	1399
55.0	1049	1116	1218	1302	1313
57.5	914	998	1123	1211	1220
60.0	793	884	1030	1118	1128
62.5	687	784	937	1023	1030
65.0	580	691	849	930	933
67.5	483	601	768	842	844
70.0	397	517	691	752	752
72.5	318	443	612	673	670
75.0	251	376	543	594	592
77.5	211	316	476	522	520
80.0	158	262	420	459	455
82.5	114	234	367	401	397
85.0	74	200	318	350	348
87.5	42	165	276	306	304
90.0	12	135	246	274	271
92.5	5	121	234	251	248
95.0	5	114	227	241	244
97.5	5	109	218	237	244
100.0	5	104	209	239	237
102.5	5	100	202	232	230
105.0	5	97	195	225	225
107.5	5	93	188	218	220
110.0	5	90	181	213	216
112.5	5	86	174	206	209
115.0	5	84	167	200	204
117.5	5	81	160	193	197
120.0	5	77	153	186	193
122.5	5	74	146	179	186
125.0	5	70	139	172	176
127.5	5	67	132	165	169
130.0	5	63	123	155	162
132.5	5	60	116	148	155

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CANDELA TABULATION - (Cont.)

135.0	5	56	109	139	146
137.5	5	53	102	132	139
140.0	5	49	95	121	130
142.5	5	44	88	114	123
145.0	7	42	81	107	111
147.5	5	37	74	97	104
150.0	7	35	67	90	95
152.5	7	30	63	81	86
155.0	7	28	56	74	79
157.5	7	26	49	65	70
160.0	7	21	42	58	63
162.5	7	19	35	49	53
165.0	7	16	30	42	44
167.5	7	14	26	35	35
170.0	9	12	21	28	28
172.5	7	9	14	19	21
175.0	7	9	12	14	14
177.5	7	7	7	9	9
180.0	7	7	7	7	7

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	964.07	N.A.	12.00
0-30	2046.84	N.A.	25.50
0-40	3314.25	N.A.	41.30
0-60	5645.08	N.A.	70.40
0-80	6963.69	N.A.	86.80
0-90	7262.05	N.A.	90.50
10-90	7014.48	N.A.	87.50
20-40	2350.18	N.A.	29.30
20-50	3603.74	N.A.	44.90
40-70	3132.98	N.A.	39.10
60-80	1318.61	N.A.	16.40
70-80	516.46	N.A.	6.40
80-90	298.36	N.A.	3.70
90-110	362.49	N.A.	4.50
90-120	500.23	N.A.	6.20
90-130	606.22	N.A.	7.60
90-150	725.48	N.A.	9.00
90-180	758.63	N.A.	9.50
110-180	396.14	N.A.	4.90
0-180	8020.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	247.57
10-20	716.50
20-30	1082.77
30-40	1267.41
40-50	1253.56
50-60	1077.27
60-70	802.15
70-80	516.46
80-90	298.36
90-100	195.21
100-110	167.28
110-120	137.74
120-130	105.99
130-140	73.86
140-150	45.40
150-160	23.42
160-170	8.43
170-180	1.30

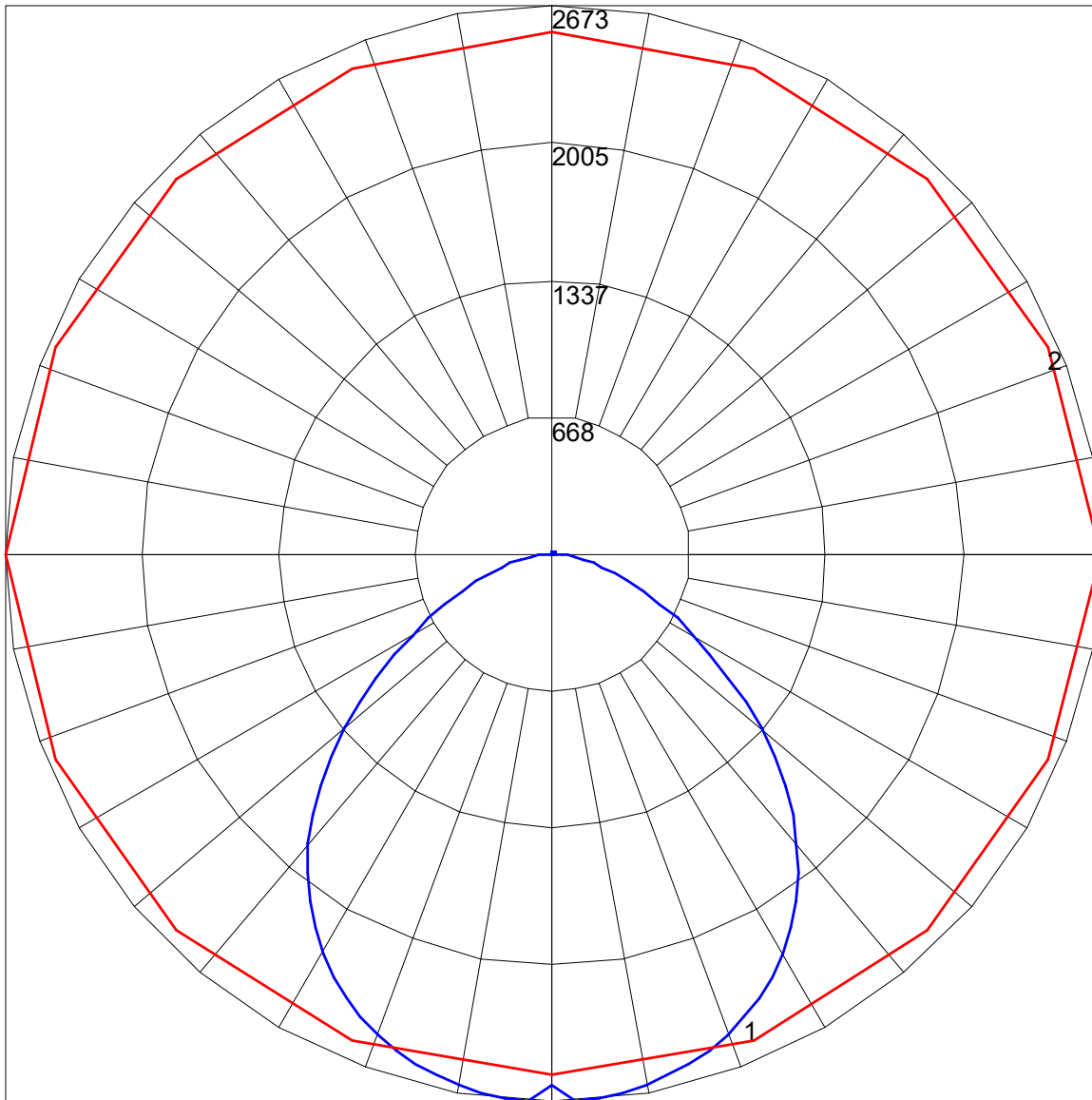
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2673 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.)