



IES INDOOR REPORT
PHOTOMETRIC FILENAME : W448-LED-HO-WW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-4273
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 07/18/13
[ISSUE DATE] 05/02/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] W448-LED-HO-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	10931
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	86
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.22
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	24774	25059	25504
55	19996	23427	25184
65	14886	22310	24485
75	10844	23278	25366
85	9624	41643	45067

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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	3540	3540	3540	3540	3540
2.5	3642	3577	3536	3501	3473
5.0	3638	3573	3533	3501	3473
7.5	3617	3561	3526	3496	3471
10.0	3596	3540	3510	3482	3457
12.5	3559	3512	3487	3461	3434
15.0	3517	3475	3450	3424	3396
17.5	3464	3429	3403	3376	3345
20.0	3403	3373	3345	3313	3280
22.5	3334	3306	3274	3234	3202
25.0	3253	3229	3190	3144	3106
27.5	3162	3139	3093	3042	3004
30.0	3060	3039	2984	2930	2895
32.5	2942	2926	2868	2814	2782
35.0	2814	2800	2740	2696	2668
37.5	2670	2663	2608	2578	2554
40.0	2517	2515	2471	2459	2448
42.5	2350	2357	2334	2343	2339
45.0	2172	2195	2197	2230	2236
47.5	1986	2023	2060	2118	2127
50.0	1798	1854	1926	2004	2021
52.5	1608	1684	1796	1891	1907
55.0	1422	1522	1666	1775	1791
57.5	1244	1362	1536	1652	1666
60.0	1076	1211	1413	1531	1543
62.5	921	1070	1290	1404	1413
65.0	780	935	1169	1278	1283
67.5	661	814	1051	1153	1155
70.0	545	715	940	1032	1032
72.5	441	612	835	916	914
75.0	348	522	747	817	814
77.5	267	441	664	726	722
80.0	218	371	582	640	633
82.5	158	309	513	561	557
85.0	104	262	450	494	487
87.5	60	223	392	434	429
90.0	21	186	343	390	385
92.5	12	169	313	355	353
95.0	12	160	297	339	334
97.5	9	153	283	322	322
100.0	9	148	271	313	311
102.5	9	142	267	304	302
105.0	9	139	255	295	295
107.5	9	135	253	285	288
110.0	12	128	244	276	281
112.5	9	125	244	269	271
115.0	9	118	237	260	264
117.5	12	116	225	251	258
120.0	9	109	216	253	248
122.5	12	104	206	241	248
125.0	12	102	197	241	251
127.5	12	95	188	230	239
130.0	9	90	176	220	230
132.5	9	86	167	209	218

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CANDELA TABULATION - (Cont.)

135.0	12	81	158	197	206
137.5	12	77	146	186	195
140.0	12	70	135	174	186
142.5	12	65	128	162	172
145.0	12	60	116	151	160
147.5	12	53	107	139	148
150.0	12	51	97	128	137
152.5	12	44	88	116	121
155.0	12	39	79	102	111
157.5	14	37	70	93	100
160.0	14	32	60	81	88
162.5	14	30	51	70	77
165.0	14	26	44	60	65
167.5	14	23	37	49	53
170.0	14	19	30	39	42
172.5	14	16	23	30	32
175.0	14	14	19	21	23
177.5	14	14	14	14	16
180.0	12	12	12	12	12

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1310.67	N.A.	12.00
0-30	2776.33	N.A.	25.40
0-40	4491.33	N.A.	41.10
0-60	7661.62	N.A.	70.10
0-80	9470.43	N.A.	86.60
0-90	9886.49	N.A.	90.40
10-90	9549.35	N.A.	87.40
20-40	3180.66	N.A.	29.10
20-50	4882.04	N.A.	44.70
40-70	4267.73	N.A.	39.00
60-80	1808.8	N.A.	16.50
70-80	711.37	N.A.	6.50
80-90	416.06	N.A.	3.80
90-110	490.51	N.A.	4.50
90-120	677.20	N.A.	6.20
90-130	825.83	N.A.	7.60
90-150	996.74	N.A.	9.10
90-180	1044.62	N.A.	9.60
110-180	554.11	N.A.	5.10
0-180	10931.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	337.14
10-20	973.53
20-30	1465.66
30-40	1715.00
40-50	1701.38
50-60	1468.91
60-70	1097.44
70-80	711.37
80-90	416.06
90-100	267.31
100-110	223.20
110-120	186.70
120-130	148.63
130-140	105.60
140-150	65.31
150-160	33.40
160-170	12.41
170-180	2.07

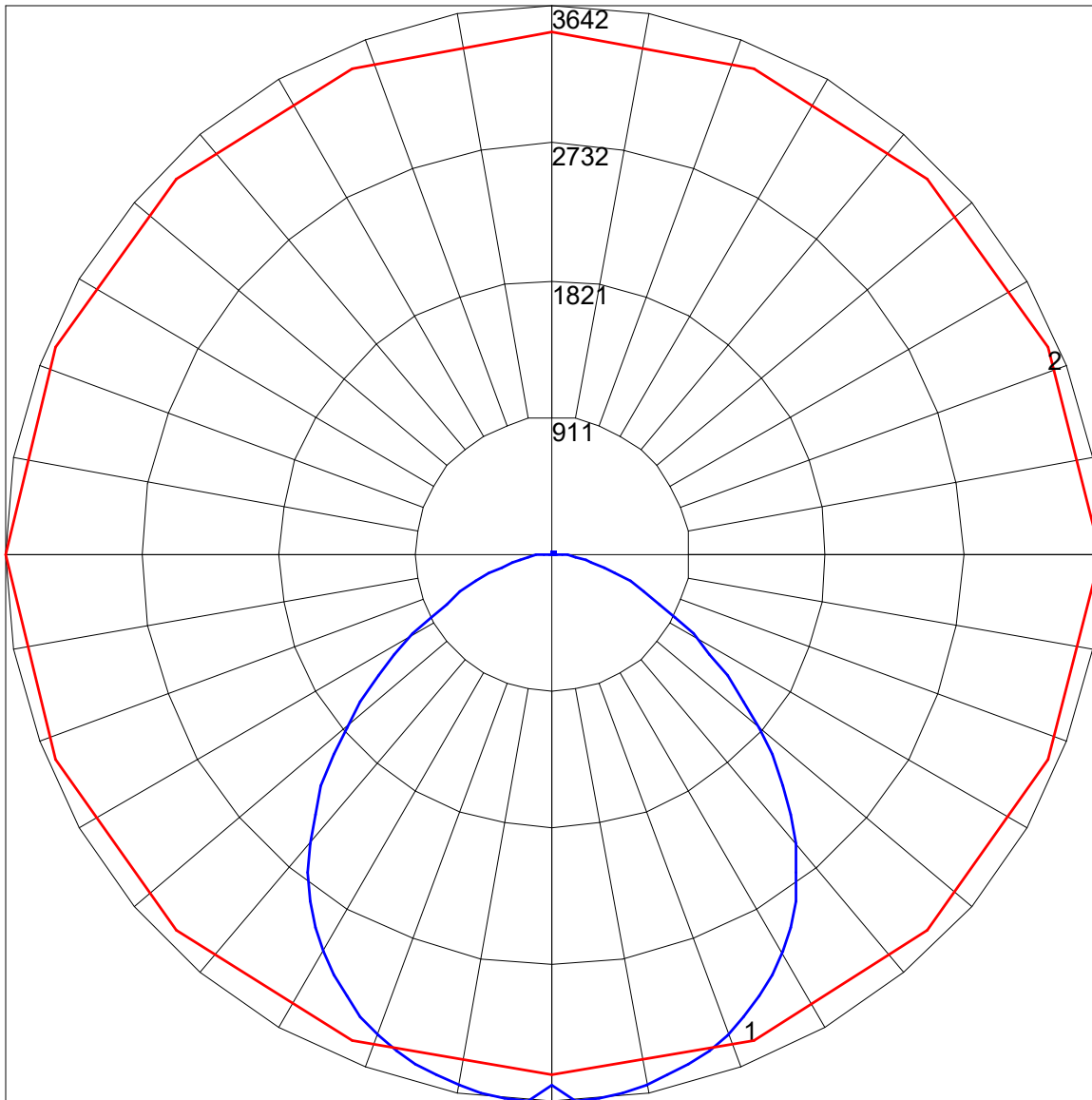
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	90
1	106	101	96	92	102	98	94	90	92	88	85	86	83	81	81	79	77	74
2	96	88	81	75	93	85	79	74	80	75	70	75	71	67	71	68	65	62
3	88	77	69	63	85	75	68	61	71	64	59	67	61	57	63	59	55	52
4	81	69	60	53	77	67	59	52	63	56	51	59	54	49	56	51	47	45
5	74	61	52	46	71	60	51	45	56	49	44	54	47	42	51	45	41	39
6	68	55	46	40	66	54	46	40	51	44	38	48	42	37	46	41	36	34
7	64	50	42	35	61	49	41	35	46	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	31	26	36	30	25	35	29	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 3642 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.)