



IES INDOOR REPORT
PHOTOMETRIC FILENAME : W448-LED-SS-NW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-4257
 [TESTLAB] LSI INDUSTRIES, INC.
 [TESTDATE] 07/15/13
 [ISSUEDATE] 05/02/23
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] W448-LED-SS-NW
 [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] 4000

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7549
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
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	17201	17383	17645
55	13865	16143	17324
65	10401	15267	16642
75	7230	15893	17264
85	6478	27947	30075

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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	2445	2445	2445	2445	2445
2.5	2515	2471	2445	2417	2397
5.0	2508	2466	2443	2420	2399
7.5	2499	2459	2438	2417	2399
10.0	2482	2445	2429	2408	2392
12.5	2459	2424	2413	2394	2378
15.0	2429	2401	2390	2373	2355
17.5	2394	2369	2362	2343	2325
20.0	2355	2332	2325	2304	2285
22.5	2306	2288	2278	2253	2232
25.0	2250	2236	2223	2192	2169
27.5	2190	2176	2158	2123	2097
30.0	2118	2109	2083	2044	2018
32.5	2039	2032	2000	1963	1937
35.0	1951	1946	1912	1877	1856
37.5	1854	1851	1819	1791	1775
40.0	1747	1749	1721	1708	1698
42.5	1631	1638	1624	1626	1622
45.0	1508	1524	1524	1545	1547
47.5	1380	1404	1429	1466	1473
50.0	1248	1285	1334	1385	1394
52.5	1114	1167	1241	1304	1315
55.0	986	1051	1148	1223	1232
57.5	861	940	1058	1137	1144
60.0	754	833	970	1049	1056
62.5	645	745	884	960	963
65.0	545	652	800	870	872
67.5	452	566	731	789	789
70.0	371	487	652	710	708
72.5	297	418	580	631	629
75.0	232	353	510	557	554
77.5	197	297	450	490	485
80.0	148	248	394	429	425
82.5	104	218	346	376	371
85.0	70	188	302	329	325
87.5	37	155	260	288	283
90.0	9	125	230	253	248
92.5	5	114	218	232	230
95.0	5	107	216	220	218
97.5	5	104	206	216	220
100.0	5	100	200	213	213
102.5	5	97	193	218	216
105.0	5	93	183	211	213
107.5	5	88	179	206	206
110.0	5	86	172	200	202
112.5	5	84	165	195	197
115.0	5	79	158	188	193
117.5	5	77	151	183	188
120.0	5	74	146	176	181
122.5	5	70	139	169	174
125.0	7	67	132	162	167
127.5	7	65	125	155	160
130.0	7	60	118	146	155
132.5	7	58	111	139	146

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CANDELA TABULATION - (Cont.)

135.0	7	53	104	132	139
137.5	7	51	97	125	132
140.0	7	46	90	116	123
142.5	7	44	84	109	116
145.0	7	39	79	100	107
147.5	7	37	72	93	100
150.0	7	32	65	84	90
152.5	7	30	58	77	84
155.0	7	28	53	70	74
157.5	7	23	46	63	67
160.0	9	21	42	56	60
162.5	9	19	35	49	51
165.0	9	16	30	39	44
167.5	9	14	23	32	35
170.0	9	12	21	26	28
172.5	9	9	14	21	21
175.0	9	9	12	14	14
177.5	7	9	9	9	9
180.0	7	7	7	7	7

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	907.09	N.A.	12.00
0-30	1926.18	N.A.	25.50
0-40	3119.35	N.A.	41.30
0-60	5313.32	N.A.	70.40
0-80	6553.57	N.A.	86.80
0-90	6833.22	N.A.	90.50
10-90	6600.26	N.A.	87.40
20-40	2212.26	N.A.	29.30
20-50	3392.67	N.A.	44.90
40-70	2948.85	N.A.	39.10
60-80	1240.25	N.A.	16.40
70-80	485.38	N.A.	6.40
80-90	279.65	N.A.	3.70
90-110	338.74	N.A.	4.50
90-120	469.25	N.A.	6.20
90-130	569.85	N.A.	7.50
90-150	683.80	N.A.	9.10
90-180	715.74	N.A.	9.50
110-180	377.00	N.A.	5.00
0-180	7548.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	232.96
10-20	674.13
20-30	1019.09
30-40	1193.17
40-50	1180.41
50-60	1013.56
60-70	754.88
70-80	485.38
80-90	279.65
90-100	181.00
100-110	157.74
110-120	130.51
120-130	100.60
130-140	70.41
140-150	43.54
150-160	22.33
160-170	8.28
170-180	1.33

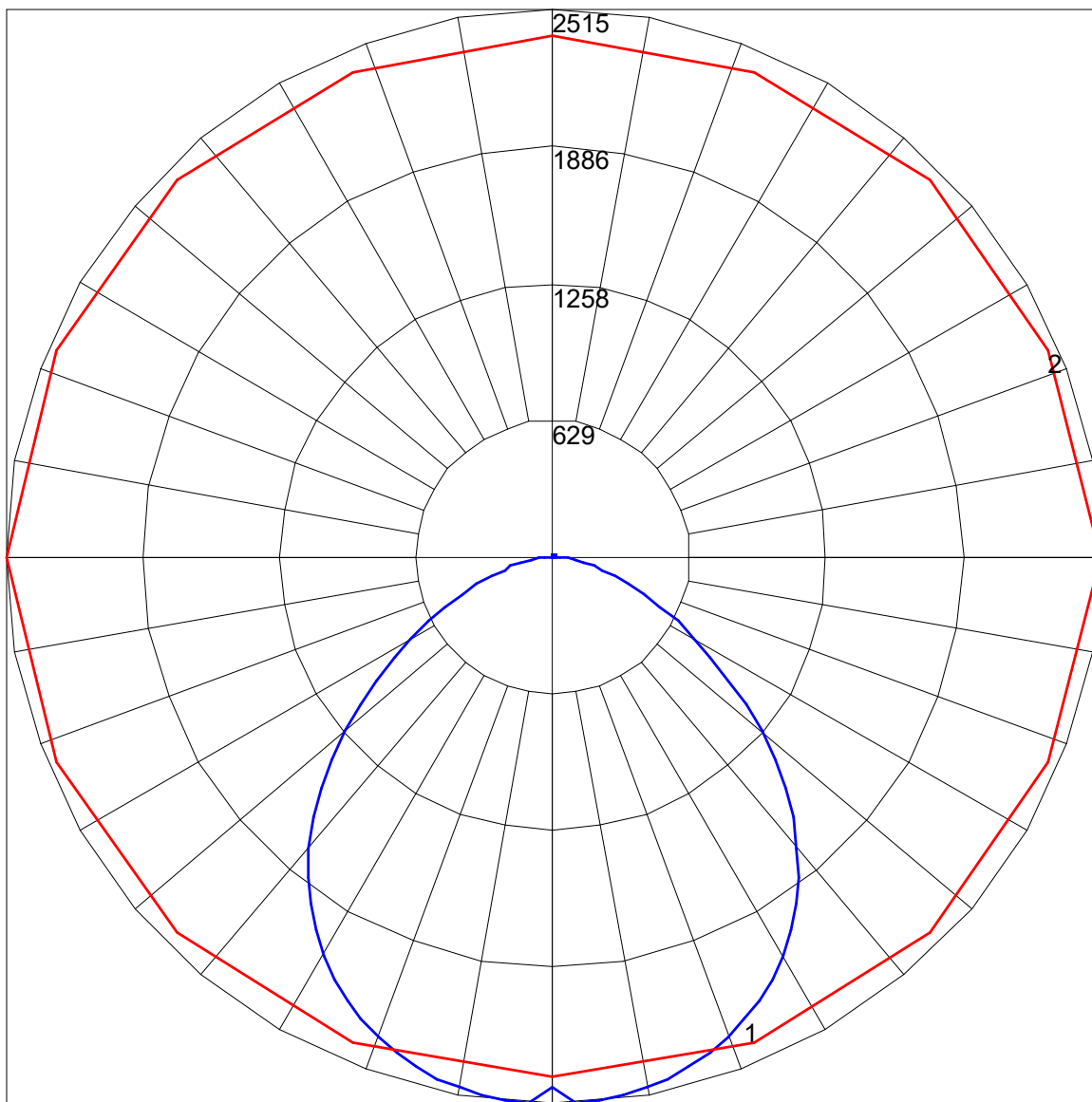
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93	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 = 2515 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.)