



IES INDOOR REPORT
PHOTOMETRIC FILENAME : W442-LED-HO-NW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-4258
[TESTLAB] LSI INDUSTRIES, INC.
[TESTDATE] 07/15/13
[ISSUEDATE] 05/02/23
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] W442-LED-HO-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	4499
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.20
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	18797	20052	21307
55	14877	18618	21177
65	11183	18092	20878
75	8975	19134	22374
85	8144	34795	40347

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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	1486	1486	1486	1486	1486
2.5	1520	1505	1484	1465	1457
5.0	1513	1500	1482	1465	1457
7.5	1505	1492	1476	1460	1453
10.0	1492	1481	1466	1450	1444
12.5	1473	1465	1452	1436	1429
15.0	1450	1444	1432	1416	1408
17.5	1423	1419	1406	1390	1382
20.0	1392	1389	1376	1359	1351
22.5	1356	1353	1340	1324	1316
25.0	1314	1314	1301	1285	1277
27.5	1269	1269	1256	1241	1235
30.0	1217	1219	1207	1198	1193
32.5	1162	1165	1156	1151	1149
35.0	1102	1107	1102	1104	1105
37.5	1037	1045	1047	1057	1062
40.0	969	981	990	1011	1020
42.5	897	914	934	965	976
45.0	824	845	879	919	934
47.5	748	777	822	874	890
50.0	672	707	769	827	845
52.5	597	641	714	780	799
55.0	529	576	662	733	753
57.5	466	523	612	685	702
60.0	403	466	562	634	652
62.5	346	413	518	584	600
65.0	293	363	474	536	547
67.5	244	317	429	494	503
70.0	202	275	385	445	453
72.5	163	236	345	398	405
75.0	144	201	307	356	359
77.5	113	172	272	316	319
80.0	87	152	241	280	282
82.5	63	136	214	248	248
85.0	44	115	188	218	218
87.5	26	95	165	193	193
90.0	11	78	147	172	172
92.5	8	71	149	159	157
95.0	6	68	141	155	157
97.5	6	66	136	152	151
100.0	6	65	131	154	154
102.5	6	61	126	149	149
105.0	6	58	121	144	146
107.5	6	57	117	141	142
110.0	6	55	113	136	138
112.5	5	53	108	133	134
115.0	5	50	105	128	131
117.5	5	49	100	123	128
120.0	5	47	95	118	123
122.5	5	45	91	115	118
125.0	5	44	87	110	115
127.5	5	40	83	105	108
130.0	5	39	78	99	104
132.5	5	37	73	94	99

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CANDELA TABULATION - (Cont.)

135.0	5	36	70	89	94
137.5	5	32	65	83	87
140.0	5	31	60	78	84
142.5	5	28	55	71	78
145.0	5	26	52	66	71
147.5	5	23	47	61	66
150.0	5	21	44	57	60
152.5	5	19	39	52	55
155.0	5	18	34	45	49
157.5	5	16	31	40	44
160.0	5	15	26	36	39
162.5	5	13	23	31	34
165.0	5	11	19	26	28
167.5	5	8	16	21	23
170.0	5	6	13	18	18
172.5	5	6	10	13	13
175.0	5	5	6	8	10
177.5	5	5	5	5	5
180.0	5	5	5	5	5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	544.03	N.A.	12.10
0-30	1141.44	N.A.	25.40
0-40	1831.62	N.A.	40.70
0-60	3096.31	N.A.	68.80
0-80	3839.08	N.A.	85.30
0-90	4019.05	N.A.	89.30
10-90	3878.03	N.A.	86.20
20-40	1287.58	N.A.	28.60
20-50	1966.8	N.A.	43.70
40-70	1710.52	N.A.	38.00
60-80	742.78	N.A.	16.50
70-80	296.95	N.A.	6.60
80-90	179.97	N.A.	4.00
90-110	228.82	N.A.	5.10
90-120	315.94	N.A.	7.00
90-130	383.07	N.A.	8.50
90-150	458.87	N.A.	10.20
90-180	479.77	N.A.	10.70
110-180	250.96	N.A.	5.60
0-180	4498.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.03
10-20	403.01
20-30	597.40
30-40	690.18
40-50	679.22
50-60	585.47
60-70	445.83
70-80	296.95
80-90	179.97
90-100	122.68
100-110	106.14
110-120	87.12
120-130	67.14
130-140	47.03
140-150	28.76
150-160	14.72
160-170	5.36
170-180	0.83

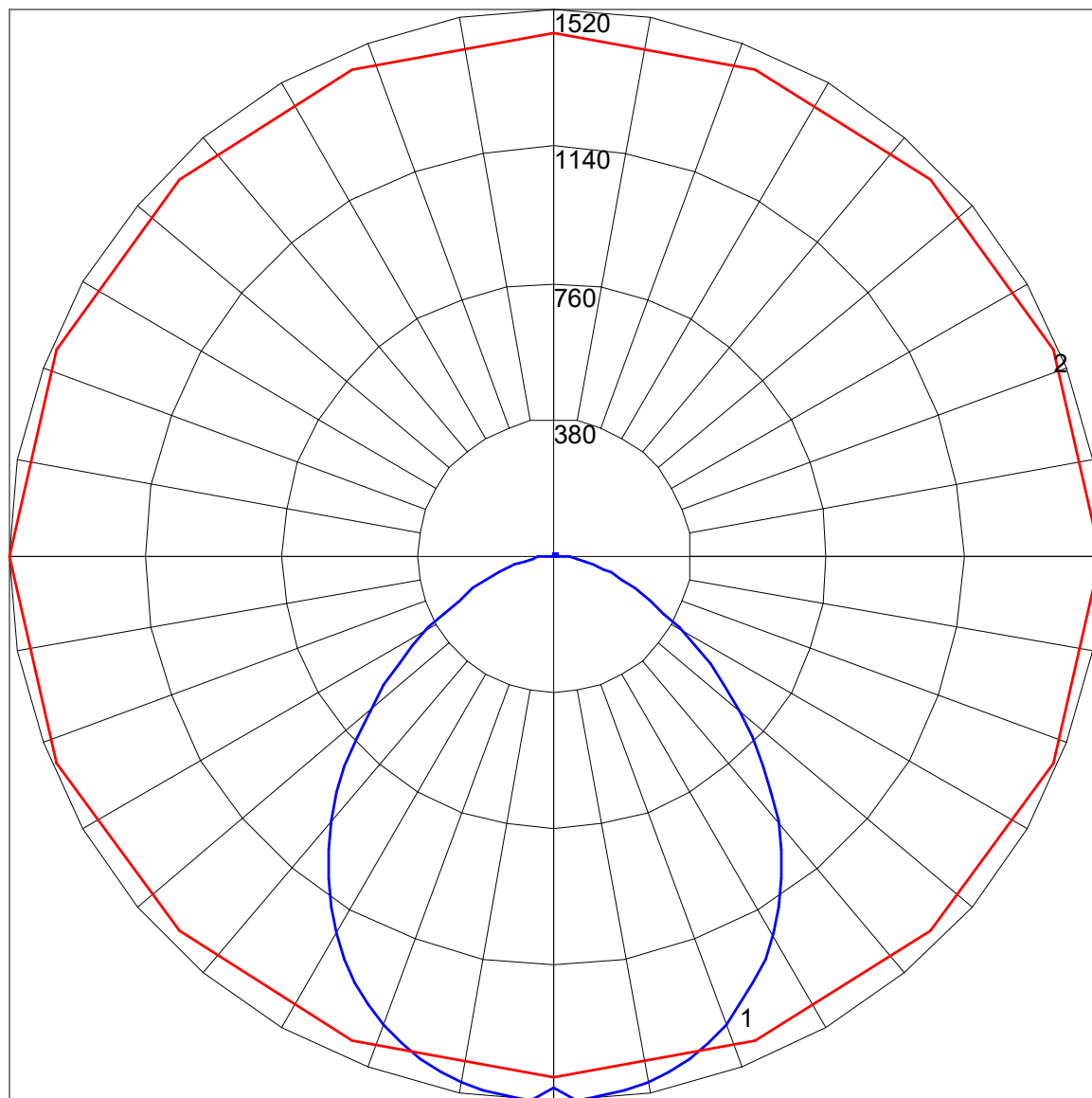
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	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	80	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	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	38
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	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	32	57	45	37	31	42	35	30	40	34	30	38	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	26	36	30	25	35	29	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 1520 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.)