



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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-4263
 [TESTLAB] LSI INDUSTRIES, INC.
 [TESTDATE] 07/16/13
 [ISSUEDATE] 05/02/23
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] W442-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	4570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	19048	20349	21558
55	15018	18899	21486
65	11412	18359	21260
75	9037	19383	22748
85	7958	35350	41273

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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	1507	1507	1507	1507	1507
2.5	1538	1526	1505	1486	1478
5.0	1534	1521	1504	1486	1478
7.5	1524	1513	1499	1481	1474
10.0	1510	1502	1488	1472	1464
12.5	1492	1486	1474	1456	1450
15.0	1469	1466	1453	1437	1429
17.5	1442	1439	1428	1412	1404
20.0	1410	1409	1396	1380	1372
22.5	1372	1372	1360	1344	1336
25.0	1331	1331	1319	1304	1296
27.5	1284	1287	1274	1260	1254
30.0	1233	1236	1225	1216	1211
32.5	1176	1181	1173	1168	1167
35.0	1116	1123	1118	1121	1121
37.5	1051	1061	1062	1074	1077
40.0	982	994	1006	1026	1034
42.5	909	926	949	979	990
45.0	835	859	892	931	945
47.5	757	787	835	885	903
50.0	681	719	779	838	857
52.5	606	651	724	791	811
55.0	534	587	672	743	764
57.5	474	526	620	694	713
60.0	409	474	569	643	662
62.5	351	419	522	593	609
65.0	299	368	481	542	557
67.5	248	323	435	500	508
70.0	206	280	392	452	460
72.5	166	240	351	405	411
75.0	145	206	311	362	365
77.5	114	175	278	321	324
80.0	87	158	247	285	286
82.5	63	138	218	253	251
85.0	43	117	191	223	223
87.5	25	98	169	198	196
90.0	9	79	161	174	172
92.5	6	73	150	161	168
95.0	6	70	144	161	166
97.5	5	66	138	161	160
100.0	5	65	133	157	155
102.5	5	62	128	152	152
105.0	5	60	123	147	147
107.5	5	58	119	142	144
110.0	5	57	115	139	141
112.5	5	54	111	134	138
115.0	5	52	106	131	133
117.5	5	51	103	126	130
120.0	5	49	98	122	126
122.5	5	46	95	117	122
125.0	5	44	89	112	117
127.5	5	43	85	106	112
130.0	5	41	81	101	106
132.5	5	38	76	96	101

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CANDELA TABULATION - (Cont.)

135.0	5	36	71	90	95
137.5	5	33	66	85	90
140.0	3	32	62	81	85
142.5	3	28	57	74	79
145.0	5	27	52	68	74
147.5	5	25	49	63	68
150.0	5	22	44	58	62
152.5	5	21	40	52	57
155.0	5	19	36	47	51
157.5	5	16	32	43	46
160.0	5	14	27	36	40
162.5	5	13	24	32	35
165.0	5	11	21	27	28
167.5	5	9	16	22	24
170.0	5	8	13	17	19
172.5	5	6	9	13	14
175.0	5	5	6	9	9
177.5	5	5	5	6	5
180.0	5	5	5	5	5

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	551.96	N.A.	12.10
0-30	1157.9	N.A.	25.30
0-40	1858.11	N.A.	40.70
0-60	3140.66	N.A.	68.70
0-80	3895.00	N.A.	85.20
0-90	4078.72	N.A.	89.30
10-90	3935.68	N.A.	86.10
20-40	1306.15	N.A.	28.60
20-50	1994.98	N.A.	43.70
40-70	1734.75	N.A.	38.00
60-80	754.34	N.A.	16.50
70-80	302.15	N.A.	6.60
80-90	183.72	N.A.	4.00
90-110	233.91	N.A.	5.10
90-120	323.03	N.A.	7.10
90-130	391.93	N.A.	8.60
90-150	469.57	N.A.	10.30
90-180	491.13	N.A.	10.70
110-180	257.22	N.A.	5.60
0-180	4569.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	143.04
10-20	408.92
20-30	605.94
30-40	700.21
40-50	688.83
50-60	593.72
60-70	452.19
70-80	302.15
80-90	183.72
90-100	126.12
100-110	107.79
110-120	89.12
120-130	68.89
130-140	48.09
140-150	29.56
150-160	15.21
160-170	5.51
170-180	0.83

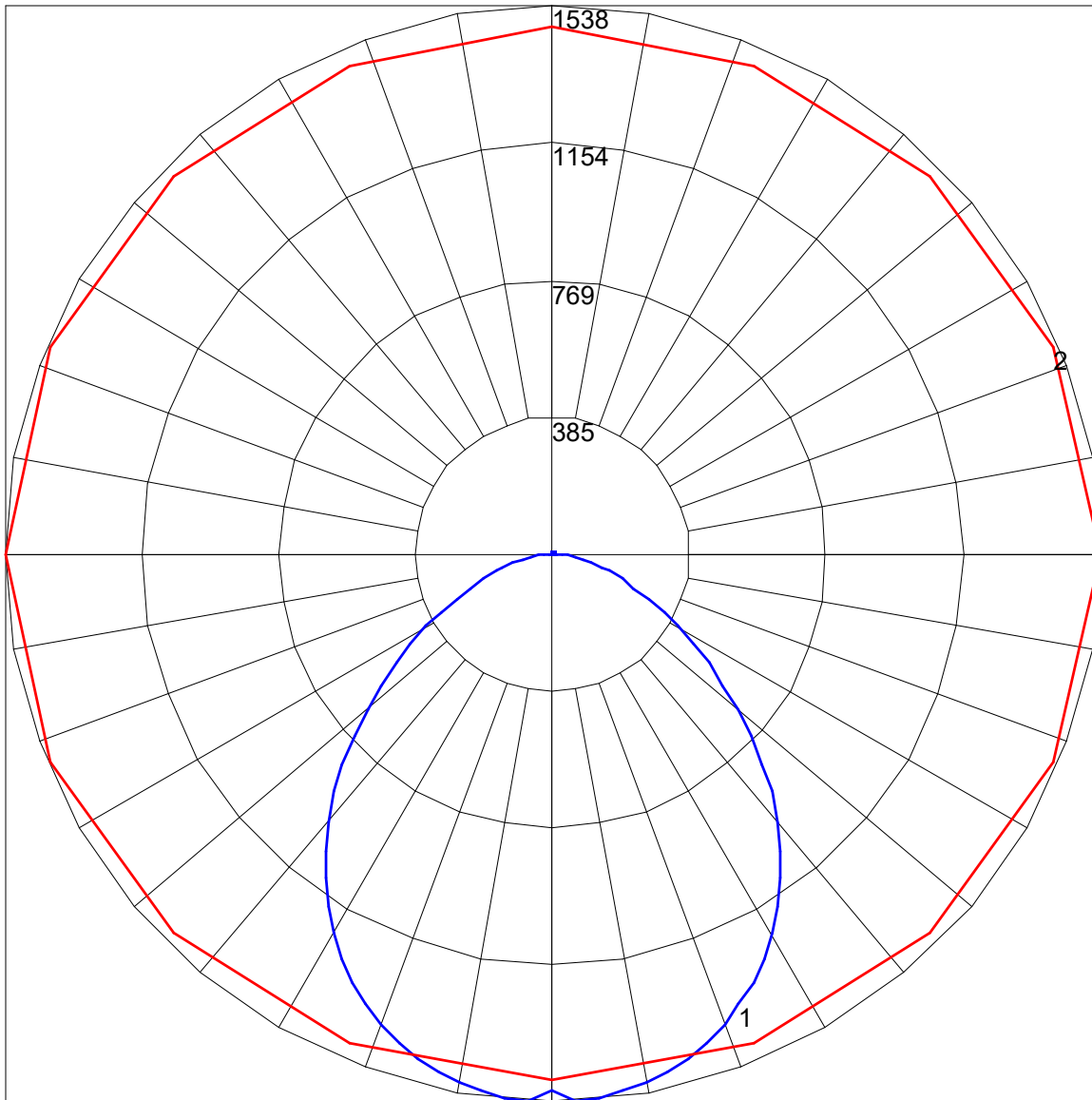
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	113	113	113	113	105	105	105	98	98	98	92	92	92	89
1	106	100	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	79	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	35	30	26	24
10	52	39	31	26	50	38	30	25	36	29	25	35	29	24	33	28	24	22

POLAR GRAPH



Maximum Candela = 1538 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.)