



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-10L-T5WU-50-70CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11030
[TESTLAB] LSI INDUSTRIES, INC
[ISSUE DATE] 06/13/19
[TEST DATE] 04/30/19
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMCAT] EXN-EGLED-10L-T5WU-50-70CRI
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE:IESNA LM-79-08
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10342
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	80
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.94
Spacing Criterion (90-270)	3.96
Spacing Criterion (Diagonal)	3.52
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.08 ft (Diameter)
Luminous Width (90-270)	1.08 ft (Diameter)
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	24445	24338	24409
55	31316	31316	31851
65	35090	34955	35510
75	28469	28195	28653
85	8137	8211	8284

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	448	448	448	448	448	448	448	448	448	448
2.5	448	448	448	448	448	448	448	448	448	448
5.0	463	463	467	467	467	463	463	463	463	463
7.5	498	498	498	498	498	498	495	495	495	498
10.0	541	541	541	544	541	541	538	538	541	541
12.5	603	600	600	600	600	600	597	597	600	600
15.0	678	675	675	675	672	672	675	672	672	672
17.5	768	765	765	765	762	762	765	765	762	762
20.0	874	871	865	865	865	865	868	871	865	862
22.5	989	989	980	983	980	983	983	986	980	983
25.0	1114	1110	1107	1107	1107	1107	1107	1110	1107	1107
27.5	1244	1241	1241	1235	1235	1238	1238	1238	1241	1238
30.0	1375	1375	1375	1365	1369	1369	1369	1369	1369	1372
32.5	1502	1502	1502	1499	1499	1496	1496	1499	1499	1499
35.0	1627	1627	1627	1627	1624	1621	1621	1621	1624	1627
37.5	1745	1748	1748	1751	1748	1739	1736	1739	1742	1748
40.0	1854	1857	1860	1860	1857	1854	1844	1848	1851	1854
42.5	1960	1960	1963	1963	1956	1956	1950	1950	1956	1956
45.0	2062	2056	2059	2059	2056	2053	2050	2050	2053	2056
47.5	2155	2155	2152	2159	2155	2149	2152	2149	2149	2155
50.0	2249	2249	2246	2255	2255	2243	2249	2249	2246	2258
52.5	2333	2339	2330	2345	2345	2333	2336	2339	2336	2355
55.0	2401	2407	2401	2423	2423	2401	2407	2411	2411	2435
57.5	2448	2448	2448	2476	2476	2448	2454	2454	2454	2488
60.0	2460	2454	2451	2485	2485	2454	2460	2463	2460	2504
62.5	2426	2411	2411	2445	2448	2414	2423	2423	2420	2463
65.0	2339	2327	2327	2358	2361	2330	2339	2339	2339	2379
67.5	2202	2196	2196	2224	2227	2202	2202	2202	2205	2243
70.0	2022	2022	2022	2044	2047	2022	2022	2025	2025	2059
72.5	1807	1798	1807	1826	1826	1798	1804	1804	1801	1823
75.0	1555	1546	1546	1558	1546	1540	1549	1546	1546	1561
77.5	1269	1257	1244	1250	1244	1253	1263	1260	1257	1257
80.0	961	939	930	927	930	939	952	949	949	936
82.5	631	619	619	616	616	622	625	625	622	619
85.0	333	336	339	336	336	336	333	333	336	333
87.5	109	115	118	115	115	115	106	106	106	109
90.0	16	16	16	16	16	12	12	12	12	12
92.5	12	12	12	12	12	12	12	12	16	16
95.0	16	16	16	16	16	16	16	16	19	16
97.5	22	22	22	22	22	22	22	22	22	22
100.0	25	25	25	25	25	25	25	25	25	25
102.5	31	31	31	28	28	28	28	31	31	31
105.0	34	34	34	34	34	34	34	34	34	34
107.5	40	40	40	37	40	37	40	40	40	40
110.0	47	47	47	47	47	44	47	47	47	47
112.5	53	53	53	53	53	53	50	50	50	53
115.0	56	56	56	59	59	59	59	56	56	56
117.5	62	62	65	65	65	65	65	65	65	62
120.0	68	72	72	75	75	72	72	72	72	72
122.5	78	78	81	81	81	81	81	81	81	78
125.0	87	87	87	87	87	87	87	87	87	87
127.5	96	96	96	96	96	96	96	96	96	96
130.0	103	106	103	103	103	106	103	106	103	103
132.5	112	112	112	112	112	112	112	112	112	112

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CANDELA TABULATION - (Cont.)

135.0	121	121	121	118	118	121	118	118	118	118
137.5	131	128	128	128	128	131	128	128	128	128
140.0	140	137	137	134	137	137	134	134	137	137
142.5	146	140	143	143	143	143	143	140	143	143
145.0	146	146	149	149	146	143	146	146	149	149
147.5	143	149	152	156	152	146	149	146	156	152
150.0	152	149	149	156	152	149	156	149	156	156
152.5	146	149	143	146	152	152	152	152	156	152
155.0	143	146	143	143	146	149	143	149	149	149
157.5	149	143	146	140	143	146	143	140	149	149
160.0	140	140	143	134	137	140	137	140	140	143
162.5	134	137	134	137	134	143	134	134	137	137
165.0	115	121	124	128	131	137	134	134	128	128
167.5	109	109	121	128	121	118	121	124	121	121
170.0	87	90	109	112	115	109	106	106	109	106
172.5	93	96	90	93	96	96	93	96	96	87
175.0	81	84	78	81	78	81	81	81	81	78
177.5	56	56	53	59	47	53	56	56	56	59
180.0	31	31	31	31	31	31	31	31	31	31

Vert. Angles **Horizontal Angles**

	<u>90</u>
0.0	448
2.5	448
5.0	467
7.5	498
10.0	541
12.5	600
15.0	672
17.5	762
20.0	865
22.5	980
25.0	1104
27.5	1232
30.0	1369
32.5	1496
35.0	1630
37.5	1751
40.0	1860
42.5	1963
45.0	2059
47.5	2162
50.0	2261
52.5	2358
55.0	2442
57.5	2495
60.0	2501
62.5	2454
65.0	2367
67.5	2236
70.0	2059
72.5	1841
75.0	1565
77.5	1257
80.0	942

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CANDELA TABULATION - (Cont.)

82.5	625
85.0	339
87.5	112
90.0	12
92.5	16
95.0	19
97.5	22
100.0	25
102.5	31
105.0	34
107.5	40
110.0	47
112.5	53
115.0	56
117.5	62
120.0	72
122.5	81
125.0	87
127.5	93
130.0	103
132.5	112
135.0	118
137.5	128
140.0	137
142.5	146
145.0	152
147.5	152
150.0	152
152.5	156
155.0	152
157.5	146
160.0	143
162.5	131
165.0	128
167.5	118
170.0	106
172.5	81
175.0	84
177.5	62
180.0	31

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	245.75	N.A.	2.40
0-30	767.21	N.A.	7.40
0-40	1790.81	N.A.	17.30
0-60	5534.96	N.A.	53.50
0-80	9432.69	N.A.	91.20
0-90	9852.72	N.A.	95.30
10-90	9805.87	N.A.	94.80
20-40	1545.06	N.A.	14.90
20-50	3140.1	N.A.	30.40
40-70	6032.92	N.A.	58.30
60-80	3897.73	N.A.	37.70
70-80	1608.96	N.A.	15.60
80-90	420.03	N.A.	4.10
90-110	55.90	N.A.	0.50
90-120	113.63	N.A.	1.10
90-130	192.22	N.A.	1.90
90-150	376.31	N.A.	3.60
90-180	489.18	N.A.	4.70
110-180	433.28	N.A.	4.20
0-180	10341.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.84
10-20	198.90
20-30	521.47
30-40	1023.6
40-50	1595.03
50-60	2149.12
60-70	2288.77
70-80	1608.96
80-90	420.03
90-100	19.26
100-110	36.64
110-120	57.73
120-130	78.59
130-140	92.48
140-150	91.62
150-160	68.11
160-170	36.52
170-180	8.24

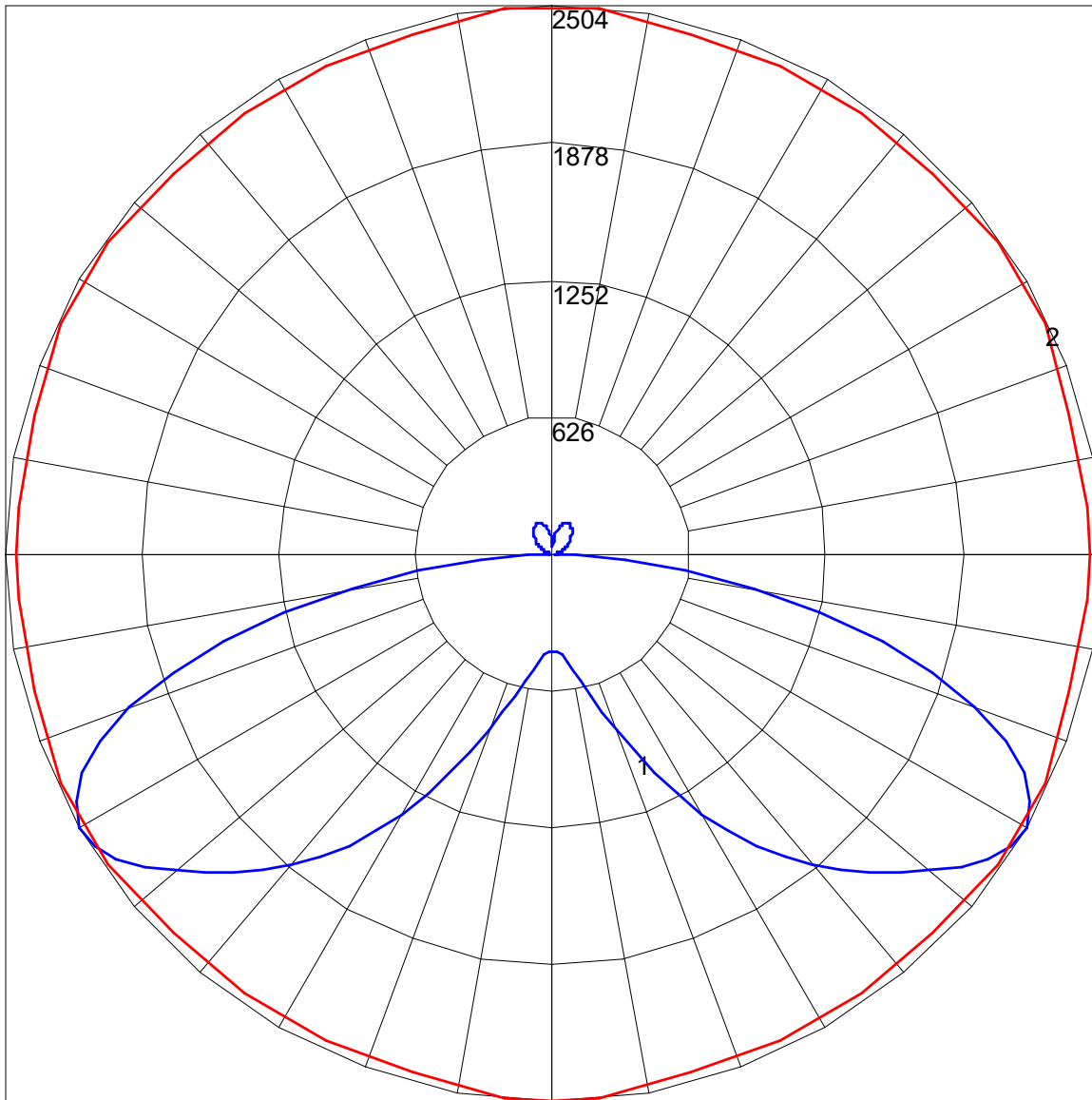
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	104	97	91	86	100	94	89	84	89	85	81	84	81	77	80	77	74	71
2	91	80	71	64	88	78	69	62	73	66	60	69	63	58	65	60	56	53
3	80	67	57	48	77	65	55	48	61	53	46	57	50	44	54	48	43	40
4	72	57	46	38	69	55	45	37	52	43	36	49	41	35	46	39	34	31
5	65	49	38	30	62	48	37	30	45	36	29	42	34	28	40	33	27	25
6	59	43	32	25	56	42	32	24	39	30	24	37	29	23	35	28	22	20
7	54	38	28	20	52	37	27	20	35	26	20	33	25	19	31	24	19	16
8	50	34	24	17	48	33	24	17	31	23	17	29	22	16	28	21	16	13
9	46	30	21	15	44	30	21	15	28	20	14	27	19	14	25	18	13	11
10	43	28	19	13	41	27	18	13	26	18	12	24	17	12	23	16	12	10

POLAR GRAPH



Maximum Candela = 2504 Located At Horizontal Angle = 85, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (85 - 265) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)