



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-11L-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
[MANUFACT] LSI INDUSTRIES, INC
[LUMCAT] EXN-EGLED-11L-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	11595
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	91
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	27409	27290	27373
55	35111	35111	35711
65	39350	39185	39815
75	31930	31600	32113
85	9115	9213	9286

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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	502	502	502	502	502	502	502	502	502	502
2.5	502	502	502	502	502	502	502	502	502	502
5.0	520	520	523	523	523	520	520	520	520	520
7.5	558	558	558	558	558	558	555	555	555	558
10.0	607	607	607	610	607	607	603	603	607	607
12.5	677	673	673	673	673	673	670	670	673	673
15.0	760	757	757	757	753	753	757	753	753	753
17.5	861	858	858	858	854	854	858	858	854	854
20.0	980	977	970	970	970	970	973	977	970	966
22.5	1109	1109	1099	1102	1099	1102	1102	1106	1099	1102
25.0	1249	1245	1242	1242	1242	1242	1242	1245	1242	1242
27.5	1395	1392	1392	1385	1385	1388	1388	1388	1392	1388
30.0	1541	1541	1541	1531	1535	1535	1535	1535	1535	1538
32.5	1684	1684	1684	1681	1681	1677	1677	1681	1681	1681
35.0	1824	1824	1824	1824	1820	1817	1817	1817	1820	1824
37.5	1956	1960	1960	1963	1960	1950	1946	1950	1953	1960
40.0	2079	2082	2086	2086	2082	2079	2068	2072	2075	2079
42.5	2197	2197	2201	2201	2194	2194	2187	2187	2194	2194
45.0	2312	2305	2309	2309	2305	2302	2298	2298	2302	2305
47.5	2417	2417	2413	2420	2417	2410	2413	2410	2410	2417
50.0	2521	2521	2518	2528	2528	2515	2521	2521	2518	2532
52.5	2616	2623	2612	2630	2630	2616	2619	2623	2619	2640
55.0	2692	2699	2692	2717	2717	2692	2699	2703	2703	2731
57.5	2745	2745	2745	2776	2776	2745	2752	2752	2752	2790
60.0	2759	2752	2748	2787	2787	2752	2759	2762	2759	2807
62.5	2720	2703	2703	2741	2745	2706	2717	2717	2713	2762
65.0	2623	2609	2609	2644	2647	2612	2623	2623	2623	2668
67.5	2469	2462	2462	2494	2497	2469	2469	2469	2473	2515
70.0	2267	2267	2267	2291	2295	2267	2267	2270	2270	2309
72.5	2026	2016	2026	2047	2047	2016	2023	2023	2019	2044
75.0	1744	1733	1733	1747	1733	1726	1737	1733	1733	1751
77.5	1423	1409	1395	1402	1395	1405	1416	1412	1409	1409
80.0	1078	1053	1043	1039	1043	1053	1067	1064	1064	1050
82.5	708	694	694	691	691	698	701	701	698	694
85.0	373	377	380	377	377	377	373	373	377	373
87.5	122	129	133	129	129	129	119	119	119	122
90.0	17	17	17	17	17	14	14	14	14	14
92.5	14	14	14	14	14	14	14	14	17	17
95.0	17	17	17	17	17	17	17	17	21	17
97.5	24	24	24	24	24	24	24	24	24	24
100.0	28	28	28	28	28	28	28	28	28	28
102.5	35	35	35	31	31	31	31	35	35	35
105.0	38	38	38	38	38	38	38	38	38	38
107.5	45	45	45	42	45	42	45	45	45	45
110.0	52	52	52	52	52	49	52	52	52	52
112.5	59	59	59	59	59	59	56	56	56	59
115.0	63	63	63	66	66	66	66	63	63	63
117.5	70	70	73	73	73	73	73	73	73	70
120.0	77	80	80	84	84	80	80	80	80	80
122.5	87	87	91	91	91	91	91	91	91	87
125.0	98	98	98	98	98	98	98	98	98	98
127.5	108	108	108	108	108	108	108	108	108	108
130.0	115	119	115	115	115	119	115	119	115	115
132.5	126	126	126	126	126	126	126	126	126	126

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CANDELA TABULATION - (Cont.)

135.0	136	136	136	133	133	136	133	133	133	133
137.5	146	143	143	143	143	146	143	143	143	143
140.0	157	153	153	150	153	153	150	150	153	153
142.5	164	157	160	160	160	160	160	157	160	160
145.0	164	164	167	167	164	160	164	164	167	167
147.5	160	167	171	174	171	164	167	164	174	171
150.0	171	167	167	174	171	167	174	167	174	174
152.5	164	167	160	164	171	171	171	171	174	171
155.0	160	164	160	160	164	167	160	167	167	167
157.5	167	160	164	157	160	164	160	157	167	167
160.0	157	157	160	150	153	157	153	157	157	160
162.5	150	153	150	153	150	160	150	150	153	153
165.0	129	136	140	143	146	153	150	150	143	143
167.5	122	122	136	143	136	133	136	140	136	136
170.0	98	101	122	126	129	122	119	119	122	119
172.5	105	108	101	105	108	108	105	108	108	98
175.0	91	94	87	91	87	91	91	91	91	87
177.5	63	63	59	66	52	59	63	63	63	66
180.0	35	35	35	35	35	35	35	35	35	35

Vert. Angles **Horizontal Angles**

	<u>90</u>
0.0	502
2.5	502
5.0	523
7.5	558
10.0	607
12.5	673
15.0	753
17.5	854
20.0	970
22.5	1099
25.0	1238
27.5	1381
30.0	1535
32.5	1677
35.0	1827
37.5	1963
40.0	2086
42.5	2201
45.0	2309
47.5	2424
50.0	2535
52.5	2644
55.0	2738
57.5	2797
60.0	2804
62.5	2752
65.0	2654
67.5	2508
70.0	2309
72.5	2065
75.0	1754
77.5	1409
80.0	1057

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CANDELA TABULATION - (Cont.)

82.5	701
85.0	380
87.5	126
90.0	14
92.5	17
95.0	21
97.5	24
100.0	28
102.5	35
105.0	38
107.5	45
110.0	52
112.5	59
115.0	63
117.5	70
120.0	80
122.5	91
125.0	98
127.5	105
130.0	115
132.5	126
135.0	133
137.5	143
140.0	153
142.5	164
145.0	171
147.5	171
150.0	171
152.5	174
155.0	171
157.5	164
160.0	160
162.5	146
165.0	143
167.5	133
170.0	119
172.5	91
175.0	94
177.5	70
180.0	35

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	275.55	N.A.	2.40
0-30	860.35	N.A.	7.40
0-40	2007.96	N.A.	17.30
0-60	6206.25	N.A.	53.50
0-80	10576.45	N.A.	91.20
0-90	11047.5	N.A.	95.30
10-90	10994.98	N.A.	94.80
20-40	1732.41	N.A.	14.90
20-50	3520.92	N.A.	30.40
40-70	6764.59	N.A.	58.30
60-80	4370.2	N.A.	37.70
70-80	1803.9	N.A.	15.60
80-90	471.05	N.A.	4.10
90-110	62.23	N.A.	0.50
90-120	126.79	N.A.	1.10
90-130	215.01	N.A.	1.90
90-150	421.36	N.A.	3.60
90-180	547.86	N.A.	4.70
110-180	485.63	N.A.	4.20
0-180	11595.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	52.52
10-20	223.03
20-30	584.79
30-40	1147.62
40-50	1788.51
50-60	2409.77
60-70	2566.3
70-80	1803.9
80-90	471.05
90-100	21.22
100-110	41.01
110-120	64.56
120-130	88.21
130-140	103.71
140-150	102.64
150-160	76.34
160-170	40.90
170-180	9.25

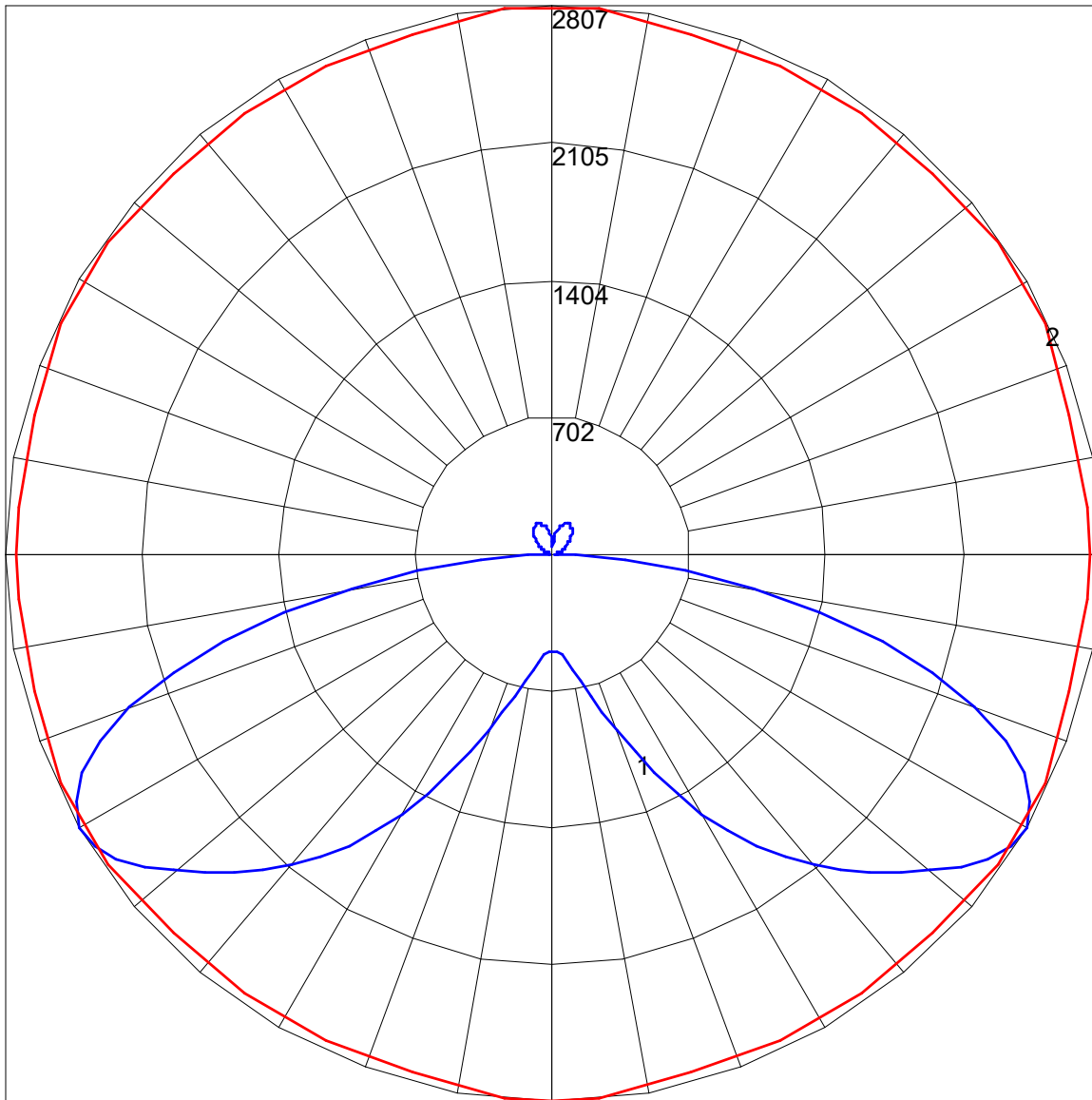
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2807 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.)