



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-11L-T5NU-50-70CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11038
[TESTLAB] LSI INDUSTRIES, INC
[ISSUE DATE] 06/13/19
[TEST DATE] 05/01/19
[MANUFACT] LSI INDUSTRIES, INC
[LUMCAT] EXN-EGLED-11L-T5NU-50-70CRI
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[OTHER] TEST PROCEDURE:IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11813
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	91
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.18
Spacing Criterion (90-270)	2.18
Spacing Criterion (Diagonal)	2.14
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	31724	31522	31439
55	33011	32698	32516
65	30664	30289	30289
75	23178	23050	22794
85	7355	7600	7526

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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	1656	1656	1656	1656	1656	1656	1656	1656	1656	1656
2.5	1660	1660	1660	1660	1660	1660	1660	1660	1660	1663
5.0	1674	1677	1677	1677	1677	1677	1677	1677	1677	1680
7.5	1708	1705	1705	1708	1708	1708	1705	1708	1708	1708
10.0	1753	1750	1750	1750	1750	1750	1750	1750	1750	1750
12.5	1805	1805	1801	1805	1801	1805	1805	1805	1805	1805
15.0	1878	1874	1874	1874	1871	1874	1874	1878	1874	1874
17.5	1950	1950	1947	1947	1947	1947	1950	1950	1947	1947
20.0	2033	2037	2037	2033	2033	2037	2033	2033	2030	2030
22.5	2126	2126	2126	2123	2126	2123	2123	2123	2123	2123
25.0	2220	2220	2220	2213	2216	2216	2216	2216	2216	2213
27.5	2310	2313	2313	2310	2310	2306	2303	2303	2306	2306
30.0	2396	2396	2396	2396	2393	2389	2389	2389	2389	2386
32.5	2476	2476	2476	2476	2472	2469	2465	2465	2462	2465
35.0	2545	2541	2541	2541	2538	2535	2531	2531	2531	2531
37.5	2600	2597	2597	2593	2590	2586	2583	2583	2579	2579
40.0	2638	2638	2638	2635	2631	2628	2621	2621	2621	2621
42.5	2666	2666	2662	2659	2656	2652	2649	2645	2645	2642
45.0	2676	2676	2673	2669	2662	2659	2656	2652	2656	2652
47.5	2669	2669	2666	2659	2652	2649	2649	2645	2645	2642
50.0	2642	2642	2638	2631	2624	2621	2617	2614	2614	2614
52.5	2597	2593	2590	2583	2576	2573	2573	2569	2566	2566
55.0	2531	2528	2521	2514	2507	2507	2503	2503	2500	2496
57.5	2445	2441	2431	2417	2413	2413	2417	2413	2413	2403
60.0	2337	2330	2320	2310	2303	2303	2306	2306	2303	2296
62.5	2192	2192	2189	2178	2171	2171	2168	2168	2168	2165
65.0	2044	2044	2037	2030	2023	2019	2016	2016	2016	2016
67.5	1878	1874	1867	1860	1853	1850	1846	1843	1850	1850
70.0	1687	1684	1680	1670	1667	1660	1663	1660	1660	1663
72.5	1483	1487	1483	1473	1459	1466	1466	1466	1459	1456
75.0	1266	1272	1269	1248	1241	1259	1255	1255	1252	1238
77.5	1027	1037	1034	1013	1010	1023	1030	1027	1027	1006
80.0	778	792	788	778	775	785	788	792	785	771
82.5	529	546	543	539	536	543	536	546	539	532
85.0	301	315	311	308	308	311	304	304	308	308
87.5	107	111	114	114	114	114	111	111	114	118
90.0	14	14	14	17	17	17	17	21	21	21
92.5	14	14	14	14	14	14	14	14	14	14
95.0	17	17	17	17	17	17	17	17	17	21
97.5	21	24	21	24	21	21	21	21	24	24
100.0	28	28	28	28	28	28	28	28	28	28
102.5	31	31	31	31	31	31	31	31	31	31
105.0	38	38	38	38	38	38	38	38	38	38
107.5	41	45	45	41	41	41	41	41	45	45
110.0	48	48	48	48	48	48	48	48	48	48
112.5	55	55	55	55	55	55	55	55	55	55
115.0	62	62	62	62	66	66	66	62	62	62
117.5	69	69	69	73	73	73	73	73	69	73
120.0	80	80	76	80	80	80	80	80	80	80
122.5	90	86	86	86	86	90	86	86	86	86
125.0	100	97	93	97	97	97	97	97	97	97
127.5	107	107	104	107	104	107	107	107	104	107
130.0	118	118	114	114	114	118	114	118	114	114
132.5	128	124	121	124	121	124	121	124	121	124

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CANDELA TABULATION - (Cont.)

135.0	138	135	135	135	131	138	131	135	131	131
137.5	149	145	142	145	138	145	142	142	138	138
140.0	156	152	149	152	142	156	152	156	149	145
142.5	163	163	159	163	152	163	159	159	149	149
145.0	166	166	166	169	159	169	163	159	156	152
147.5	180	173	173	176	163	169	163	159	156	156
150.0	187	183	180	173	166	166	163	159	156	156
152.5	190	187	180	169	163	163	163	159	159	152
155.0	173	173	166	156	156	163	156	159	156	152
157.5	156	156	152	152	152	159	159	159	163	152
160.0	145	145	142	142	152	152	156	156	163	156
162.5	142	142	142	138	138	145	149	149	156	159
165.0	135	135	128	128	131	135	142	142	152	163
167.5	128	128	124	128	121	128	124	131	152	163
170.0	114	118	118	118	118	107	111	114	131	135
172.5	104	104	107	104	104	97	104	111	118	121
175.0	90	86	90	93	93	86	97	90	97	93
177.5	62	59	59	62	52	59	62	66	62	59
180.0	48	48	48	48	48	48	48	48	48	48

Vert. Horizontal Angles

	<u>90</u>
0.0	1656
2.5	1660
5.0	1680
7.5	1708
10.0	1750
12.5	1805
15.0	1871
17.5	1947
20.0	2026
22.5	2123
25.0	2213
27.5	2306
30.0	2389
32.5	2465
35.0	2531
37.5	2583
40.0	2621
42.5	2642
45.0	2652
47.5	2642
50.0	2614
52.5	2566
55.0	2493
57.5	2407
60.0	2296
62.5	2168
65.0	2019
67.5	1850
70.0	1667
72.5	1463
75.0	1245
77.5	1020
80.0	781

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CANDELA TABULATION - (Cont.)

82.5	539
85.0	308
87.5	118
90.0	24
92.5	14
95.0	17
97.5	21
100.0	28
102.5	31
105.0	38
107.5	45
110.0	48
112.5	55
115.0	62
117.5	69
120.0	80
122.5	90
125.0	97
127.5	107
130.0	118
132.5	124
135.0	135
137.5	138
140.0	152
142.5	152
145.0	152
147.5	152
150.0	152
152.5	152
155.0	149
157.5	152
160.0	156
162.5	152
165.0	166
167.5	156
170.0	145
172.5	114
175.0	93
177.5	69
180.0	48

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	699.31	N.A.	5.90
0-30	1729.51	N.A.	14.60
0-40	3319.04	N.A.	28.10
0-60	7603.48	N.A.	64.40
0-80	10906.5	N.A.	92.30
0-90	11276.92	N.A.	95.50
10-90	11114.5	N.A.	94.10
20-40	2619.72	N.A.	22.20
20-50	4670.72	N.A.	39.50
40-70	6276.02	N.A.	53.10
60-80	3303.01	N.A.	28.00
70-80	1311.44	N.A.	11.10
80-90	370.42	N.A.	3.10
90-110	60.32	N.A.	0.50
90-120	123.06	N.A.	1.00
90-130	209.50	N.A.	1.80
90-150	412.89	N.A.	3.50
90-180	536.40	N.A.	4.50
110-180	476.08	N.A.	4.00
0-180	11813.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.42
10-20	536.89
20-30	1030.19
30-40	1589.53
40-50	2051.00
50-60	2233.45
60-70	1991.57
70-80	1311.44
80-90	370.42
90-100	20.81
100-110	39.50
110-120	62.75
120-130	86.44
130-140	102.49
140-150	100.90
150-160	74.41
160-170	39.71
170-180	9.39

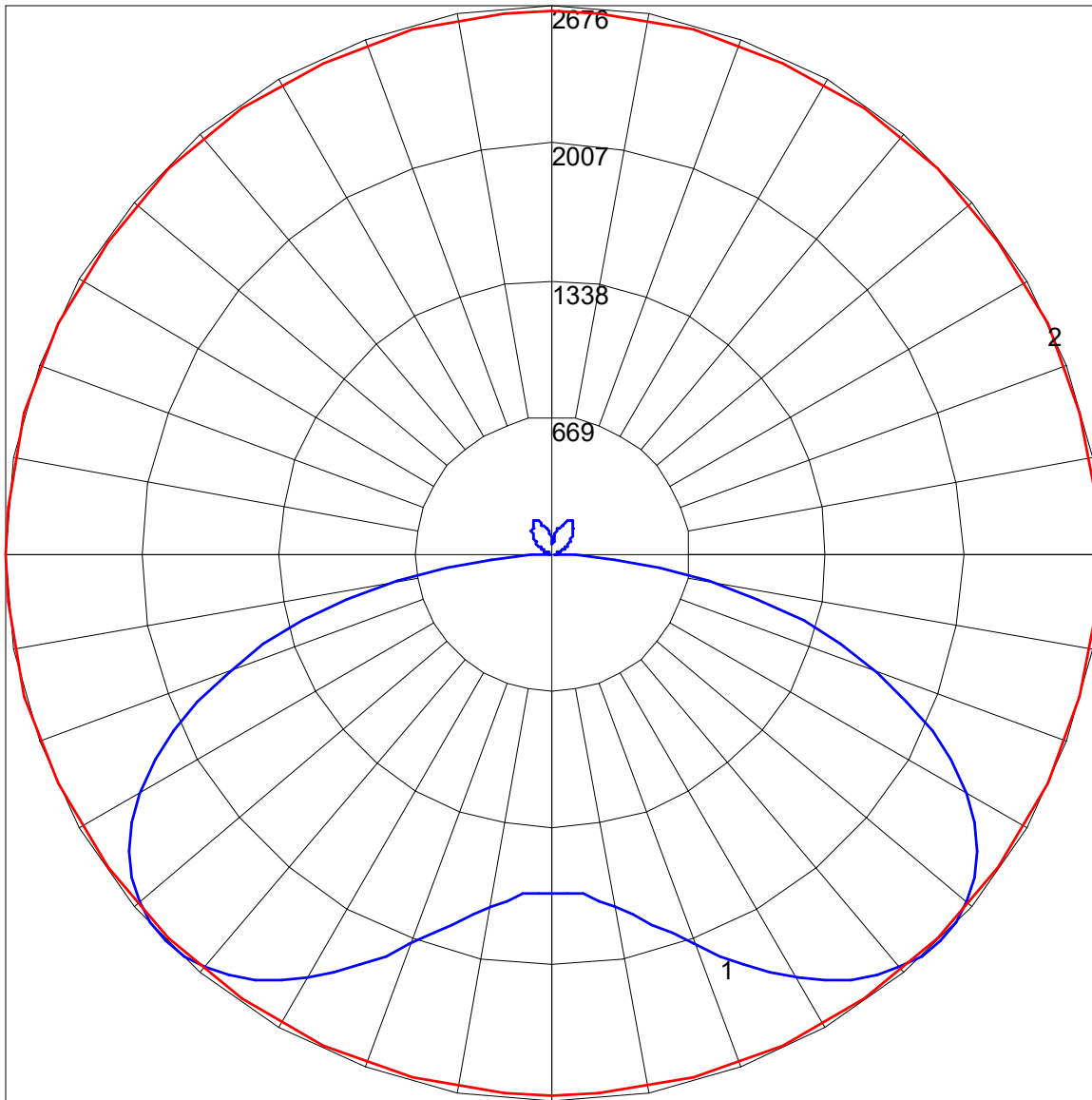
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	109	109	103	103	103	98	98	98	95
1	106	100	95	90	102	97	92	88	92	88	85	87	84	81	83	80	78	75
2	94	84	77	70	91	82	75	69	78	72	66	74	69	64	70	66	62	59
3	84	72	63	55	81	70	62	55	67	59	53	63	57	51	60	54	50	47
4	76	63	53	45	73	61	52	44	58	50	43	55	48	42	52	46	41	38
5	69	55	45	37	67	53	44	37	51	42	36	48	41	35	46	39	34	32
6	63	49	39	32	61	47	38	31	45	37	30	43	35	30	41	34	29	27
7	58	43	34	27	56	42	33	27	40	32	26	38	31	26	37	30	25	23
8	54	39	30	23	52	38	29	23	36	28	23	35	28	22	33	27	22	20
9	50	35	27	21	48	35	26	20	33	25	20	32	25	20	30	24	19	17
10	47	32	24	18	45	32	24	18	30	23	18	29	22	17	28	22	17	15

POLAR GRAPH



Maximum Candela = 2676 Located At Horizontal Angle = 0, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)