



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EXN-EGLED-11L-T5N-40-70CRI.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-10477\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]09/21/18  
[TEST DATE]08/04/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]EXN-EGLED-11L-T5N-40-70CRI  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]SCALED FROM ORIGINAL TEST DATA  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCE TYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11340
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	87
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.28
Spacing Criterion (90-270)	2.28
Spacing Criterion (Diagonal)	2.24
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.13 ft (Diameter)
Luminous Width (90-270)	1.13 ft (Diameter)
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	40951	40842	40897
55	48540	48306	48339
65	53868	53686	53413
75	55123	54752	53415
85	41696	37945	37945

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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	1535.579	1535.579	1535.579	1535.579	1535.579	1535.579	1535.579	1535.579	1535.579	1535.579
2.5	1539.133	1539.133	1539.133	1539.133	1539.133	1537.356	1539.133	1539.133	1539.133	1539.133
5.0	1555.129	1553.351	1553.351	1553.351	1555.129	1553.351	1555.129	1555.129	1555.129	1555.129
7.5	1581.788	1581.788	1580.011	1580.011	1580.011	1583.565	1581.788	1581.788	1581.788	1581.788
10.0	1622.666	1622.666	1624.443	1622.666	1622.666	1622.666	1622.666	1624.443	1622.666	1624.443
12.5	1674.207	1674.207	1675.984	1677.762	1675.984	1675.984	1675.984	1675.984	1674.207	1675.984
15.0	1739.967	1739.967	1743.521	1743.521	1741.744	1741.744	1739.967	1739.967	1739.967	1741.744
17.5	1818.168	1819.945	1819.945	1821.722	1821.722	1819.945	1818.168	1818.168	1819.945	1821.722
20.0	1903.478	1905.255	1908.809	1908.809	1908.809	1907.032	1903.478	1903.478	1908.809	1908.809
22.5	1999.451	2003.006	2003.006	2003.006	2003.006	2004.783	2001.229	2003.006	2003.006	2004.783
25.0	2106.089	2104.311	2104.311	2104.311	2104.311	2106.089	2104.311	2107.866	2104.311	2104.311
27.5	2214.503	2210.949	2207.394	2207.394	2207.394	2209.171	2210.949	2212.726	2209.171	2207.394
30.0	2314.032	2310.477	2306.922	2306.922	2306.922	2308.700	2312.254	2310.477	2308.700	2306.922
32.5	2404.673	2404.673	2401.119	2399.341	2399.341	2401.119	2402.896	2402.896	2402.896	2399.341
35.0	2488.206	2488.206	2484.651	2481.097	2482.874	2486.429	2486.429	2486.429	2486.429	2484.651
37.5	2557.520	2557.520	2555.743	2553.966	2552.188	2553.966	2553.966	2553.966	2555.743	2555.743
40.0	2612.616	2612.616	2612.616	2610.839	2609.062	2609.062	2609.062	2610.839	2610.839	2610.839
42.5	2651.717	2653.494	2651.717	2651.717	2648.162	2648.162	2648.162	2649.939	2649.939	2651.717
45.0	2676.599	2678.376	2674.821	2673.044	2671.267	2669.490	2673.044	2673.044	2673.044	2673.044
47.5	2683.708	2683.708	2681.931	2674.821	2673.044	2674.821	2676.599	2678.376	2678.376	2676.599
50.0	2669.490	2665.935	2667.712	2658.826	2657.049	2658.826	2657.049	2657.049	2664.158	2660.603
52.5	2630.389	2628.612	2630.389	2623.280	2619.725	2621.503	2616.171	2617.948	2625.057	2625.057
55.0	2573.516	2569.961	2571.739	2564.629	2561.075	2561.075	2557.520	2561.075	2566.407	2566.407
57.5	2493.538	2491.761	2491.761	2484.651	2477.542	2477.542	2479.320	2481.097	2484.651	2486.429
60.0	2385.123	2388.678	2385.123	2378.014	2372.682	2374.459	2374.459	2379.791	2383.346	2381.569
62.5	2251.826	2262.490	2258.936	2250.049	2244.717	2246.495	2248.272	2251.826	2255.381	2253.604
65.0	2104.311	2114.975	2100.757	2093.648	2097.202	2097.202	2098.979	2104.311	2102.534	2097.202
67.5	1942.578	1942.578	1933.692	1924.805	1921.250	1921.250	1928.360	1933.692	1931.914	1928.360
70.0	1752.408	1750.631	1750.631	1738.190	1734.635	1739.967	1741.744	1741.744	1748.853	1743.521
72.5	1540.910	1537.356	1546.242	1539.133	1535.579	1535.579	1521.360	1519.583	1546.242	1544.465
75.0	1318.749	1300.976	1320.526	1327.636	1324.081	1309.863	1286.758	1290.313	1313.417	1331.190
77.5	1077.038	1046.824	1068.151	1093.033	1084.147	1061.042	1041.492	1043.269	1061.042	1094.811
80.0	828.217	796.226	803.335	815.776	826.440	796.226	794.449	798.003	801.558	828.217
82.5	577.619	554.514	536.742	559.846	563.401	543.851	554.514	554.514	542.073	558.069
85.0	335.908	316.358	300.362	314.580	314.580	305.694	316.358	321.689	305.694	314.580
87.5	108.415	103.083	97.751	101.306	101.306	99.528	104.860	108.415	99.528	103.083
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Angles**      **Horizontal Angles**

	<u>90</u>
0.0	1535.579
2.5	1540.910
5.0	1553.351
7.5	1580.011
10.0	1620.888
12.5	1674.207
15.0	1745.299
17.5	1821.722
20.0	1910.587
22.5	2004.783
25.0	2104.311
27.5	2205.617
30.0	2306.922

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	2399.341
<b>35.0</b>	2481.097
<b>37.5</b>	2553.966
<b>40.0</b>	2610.839
<b>42.5</b>	2651.717
<b>45.0</b>	2673.044
<b>47.5</b>	2673.044
<b>50.0</b>	2657.049
<b>52.5</b>	2621.503
<b>55.0</b>	2562.852
<b>57.5</b>	2477.542
<b>60.0</b>	2369.128
<b>62.5</b>	2235.831
<b>65.0</b>	2086.538
<b>67.5</b>	1919.473
<b>70.0</b>	1725.749
<b>72.5</b>	1510.696
<b>75.0</b>	1277.872
<b>77.5</b>	1039.715
<b>80.0</b>	799.780
<b>82.5</b>	534.964
<b>85.0</b>	305.694
<b>87.5</b>	104.860
<b>90.0</b>	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	650.89	N.A.	5.70
0-30	1631.32	N.A.	14.40
0-40	3190.00	N.A.	28.10
0-60	7533.33	N.A.	66.40
0-80	10967.45	N.A.	96.70
0-90	11340.06	N.A.	100.00
10-90	11189.52	N.A.	98.70
20-40	2539.11	N.A.	22.40
20-50	4599.05	N.A.	40.60
40-70	6409.45	N.A.	56.50
60-80	3434.12	N.A.	30.30
70-80	1367.99	N.A.	12.10
80-90	372.61	N.A.	3.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	11340.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	150.53
10-20	500.36
20-30	980.43
30-40	1558.68
40-50	2059.94
50-60	2283.39
60-70	2066.12
70-80	1367.99
80-90	372.61
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

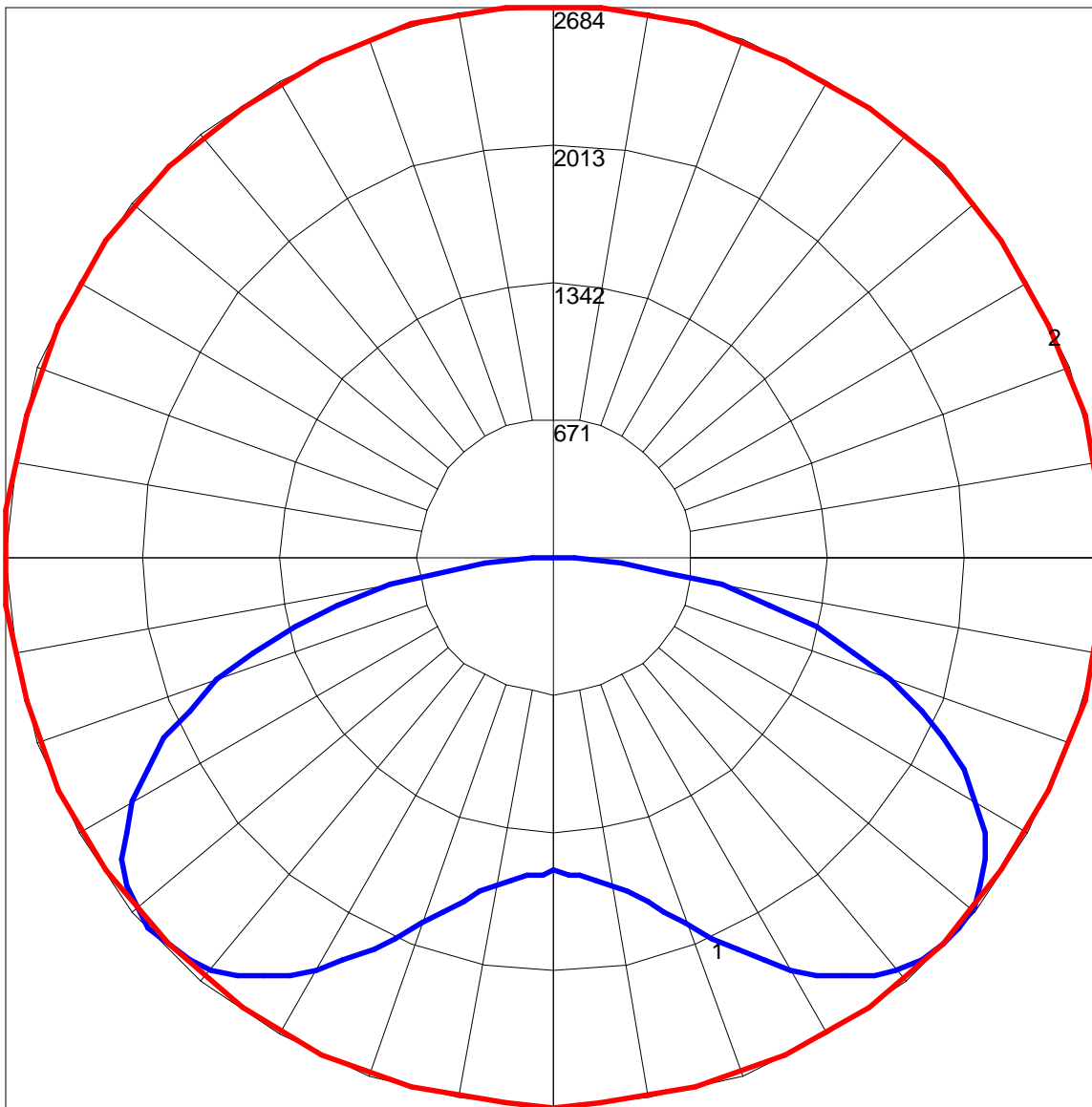
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	106	100	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	79
2	95	85	76	70	92	83	75	69	79	73	67	76	70	65	72	68	64	61
3	85	72	63	55	82	71	62	54	67	60	53	64	58	52	62	56	51	49
4	76	62	52	44	74	61	51	44	58	50	43	56	49	43	53	47	42	40
5	69	55	44	37	67	53	44	36	51	42	36	49	41	35	47	40	35	33
6	63	48	38	31	61	47	38	31	45	37	30	43	36	30	42	35	30	27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	37	31	25	23
8	54	39	29	23	52	38	29	23	36	28	22	35	28	22	34	27	22	20
9	50	35	26	20	48	34	26	20	33	25	20	32	25	19	31	24	19	17
10	46	32	23	18	45	31	23	17	30	23	17	29	22	17	28	22	17	15

POLAR GRAPH



Maximum Candela = 2683.708 Located At Horizontal Angle = 0, Vertical Angle = 47.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)