



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EXN-EGLED-10L-T5W-50-70CRI.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-10492\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]09/21/18  
[TEST DATE]08/07/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]EXN-EGLED-10L-T5W-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\_SOURCE TYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10010
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	76
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.96
Spacing Criterion (90-270)	4.04
Spacing Criterion (Diagonal)	3.60
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.08 ft (Diameter)
Luminous Width (90-270)	1.08 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	33620	33831	33778
55	48696	50094	50354
65	64414	67105	67899
75	70528	73337	74202
85	46423	46423	46637

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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	442.693	442.693	442.693	442.693	442.693	442.693	442.693	442.693	442.693	442.693
2.5	444.291	444.291	444.291	444.291	444.291	444.291	444.291	444.291	442.693	444.291
5.0	460.273	460.273	461.871	461.871	461.871	460.273	460.273	460.273	460.273	460.273
7.5	490.638	492.236	493.835	493.835	492.236	490.638	490.638	490.638	490.638	490.638
10.0	533.789	535.387	536.985	536.985	536.985	533.789	533.789	532.191	533.789	535.387
12.5	592.921	594.519	596.117	596.117	596.117	592.921	591.323	591.323	592.921	596.117
15.0	666.437	669.633	671.231	671.231	669.633	666.437	664.839	666.437	666.437	669.633
17.5	757.533	757.533	757.533	755.934	755.934	755.934	752.738	755.934	755.934	755.934
20.0	863.012	859.815	859.815	856.619	855.021	856.619	856.619	855.021	858.217	855.021
22.5	974.884	973.286	971.687	968.491	968.491	968.491	971.687	970.089	970.089	966.893
25.0	1096.345	1094.746	1093.148	1091.550	1091.550	1093.148	1091.550	1091.550	1094.746	1089.952
27.5	1225.796	1225.796	1224.198	1221.002	1219.404	1219.404	1219.404	1219.404	1221.002	1219.404
30.0	1355.248	1356.846	1353.650	1353.650	1352.052	1353.650	1348.856	1348.856	1350.454	1353.650
32.5	1481.504	1483.102	1484.700	1486.298	1484.700	1479.905	1475.111	1473.513	1476.709	1479.905
35.0	1602.965	1606.161	1610.955	1615.750	1609.357	1604.563	1596.572	1594.974	1601.366	1604.563
37.5	1721.229	1724.425	1732.416	1735.613	1730.818	1722.827	1713.238	1713.238	1719.631	1722.827
40.0	1834.699	1837.896	1847.485	1850.681	1842.690	1834.699	1826.708	1825.110	1829.905	1836.297
42.5	1940.178	1948.169	1954.562	1956.160	1951.366	1943.375	1932.188	1932.188	1936.982	1943.375
45.0	2037.667	2047.256	2058.443	2058.443	2056.845	2050.452	2034.470	2032.872	2044.059	2048.854
47.5	2139.950	2144.744	2167.119	2163.922	2162.324	2160.726	2138.352	2135.155	2159.128	2157.530
50.0	2234.242	2239.036	2271.000	2267.803	2267.803	2269.401	2239.036	2239.036	2271.000	2266.205
52.5	2323.739	2333.328	2371.684	2370.086	2371.684	2376.479	2338.123	2338.123	2381.273	2376.479
55.0	2394.059	2408.442	2456.387	2457.986	2462.780	2462.780	2418.031	2419.629	2470.771	2473.967
57.5	2435.611	2456.387	2513.921	2523.510	2525.109	2525.109	2470.771	2473.967	2537.894	2545.885
60.0	2440.406	2465.976	2531.501	2541.090	2545.885	2545.885	2483.556	2491.547	2561.867	2571.456
62.5	2408.442	2434.013	2497.940	2507.529	2513.921	2517.118	2456.387	2465.976	2533.100	2541.090
65.0	2333.328	2352.506	2413.237	2426.022	2432.415	2430.817	2376.479	2387.666	2448.397	2461.182
67.5	2205.475	2223.055	2283.785	2296.570	2304.561	2301.365	2247.027	2256.616	2318.945	2333.328
70.0	2026.480	2048.854	2106.388	2119.173	2125.566	2123.968	2063.238	2072.827	2136.753	2151.137
72.5	1813.923	1828.307	1887.439	1895.430	1900.224	1897.028	1847.485	1858.672	1908.215	1922.599
75.0	1564.608	1574.197	1618.946	1628.535	1630.133	1626.937	1591.777	1602.965	1641.321	1639.722
77.5	1283.331	1281.732	1305.705	1292.920	1310.499	1324.883	1304.107	1312.098	1336.070	1323.285
80.0	976.482	973.286	971.687	970.089	970.089	995.660	990.865	998.856	997.258	989.267
82.5	658.446	648.857	645.661	647.259	647.259	656.848	669.633	666.437	656.848	655.250
85.0	346.803	345.205	345.205	348.401	348.401	346.803	359.588	346.803	351.597	353.196
87.5	100.685	108.676	108.676	110.274	110.274	108.676	107.077	102.283	111.872	111.872
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	442.693
2.5	444.291
5.0	461.871
7.5	492.236
10.0	536.985
12.5	596.117
15.0	668.035
17.5	754.336
20.0	855.021
22.5	966.893
25.0	1089.952
27.5	1217.806
30.0	1348.856

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	1475.111
<b>35.0</b>	1606.161
<b>37.5</b>	1722.827
<b>40.0</b>	1837.896
<b>42.5</b>	1940.178
<b>45.0</b>	2047.256
<b>47.5</b>	2155.931
<b>50.0</b>	2264.607
<b>52.5</b>	2374.881
<b>55.0</b>	2475.565
<b>57.5</b>	2547.483
<b>60.0</b>	2573.054
<b>62.5</b>	2541.090
<b>65.0</b>	2459.584
<b>67.5</b>	2333.328
<b>70.0</b>	2152.735
<b>72.5</b>	1922.599
<b>75.0</b>	1646.115
<b>77.5</b>	1334.472
<b>80.0</b>	976.482
<b>82.5</b>	650.455
<b>85.0</b>	348.401
<b>87.5</b>	110.274
<b>90.0</b>	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	243.40	N.A.	2.40
0-30	757.90	N.A.	7.60
0-40	1769.51	N.A.	17.70
0-60	5540.33	N.A.	55.30
0-80	9573.66	N.A.	95.60
0-90	10010.05	N.A.	100.00
10-90	9963.67	N.A.	99.50
20-40	1526.11	N.A.	15.20
20-50	3116.93	N.A.	31.10
40-70	6127.93	N.A.	61.20
60-80	4033.33	N.A.	40.30
70-80	1676.22	N.A.	16.70
80-90	436.39	N.A.	4.40
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	10010.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	46.39
10-20	197.01
20-30	514.51
30-40	1011.6
40-50	1590.81
50-60	2180.01
60-70	2357.11
70-80	1676.22
80-90	436.39
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

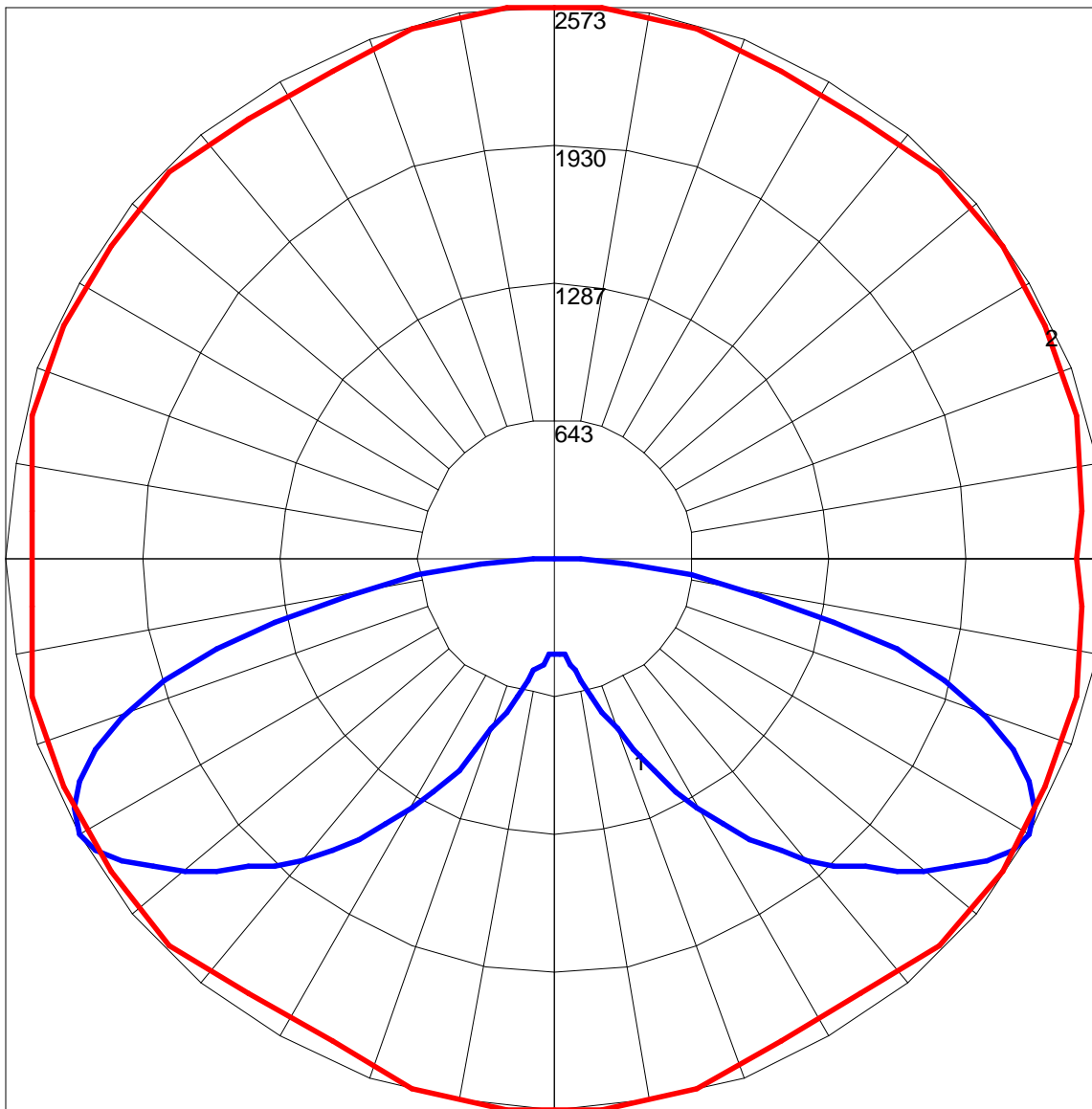
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	98	92	86	101	95	90	85	91	86	82	87	83	80	83	80	77	75
2	91	80	71	63	88	78	70	62	74	67	61	71	65	59	68	62	58	55
3	81	67	56	48	78	65	55	47	62	53	46	59	51	45	56	50	44	42
4	72	57	46	37	69	55	45	37	52	43	36	50	42	35	47	41	35	32
5	65	49	38	29	62	48	37	29	45	36	29	43	35	28	41	34	28	25
6	59	43	32	24	57	42	31	24	40	30	23	38	29	23	36	29	23	20
7	54	38	27	20	52	37	27	20	35	26	19	33	25	19	32	25	19	17
8	49	34	24	17	48	33	23	17	31	23	16	30	22	16	29	21	16	14
9	46	30	21	14	44	30	20	14	28	20	14	27	19	14	26	19	14	12
10	43	27	18	12	41	27	18	12	26	18	12	25	17	12	24	17	12	10

POLAR GRAPH



Maximum Candela = 2573.054 Located At Horizontal Angle = 90, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)