



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EXN-EGLED-10L-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-10L-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	10200
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	76
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	36835	36737	36786
55	43661	43450	43480
65	48453	48289	48044
75	49582	49248	48045
85	37504	34131	34131

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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	1381.216	1381.216	1381.216	1381.216	1381.216	1381.216	1381.216	1381.216	1381.216	1381.216
2.5	1384.414	1384.414	1384.414	1384.414	1384.414	1382.815	1384.414	1384.414	1384.414	1384.414
5.0	1398.801	1397.203	1397.203	1397.203	1398.801	1397.203	1398.801	1398.801	1398.801	1398.801
7.5	1422.781	1422.781	1421.182	1421.182	1421.182	1424.379	1422.781	1422.781	1422.781	1422.781
10.0	1459.549	1459.549	1461.148	1459.549	1459.549	1459.549	1459.549	1461.148	1459.549	1461.148
12.5	1505.909	1505.909	1507.508	1509.107	1507.508	1507.508	1507.508	1507.508	1505.909	1507.508
15.0	1565.059	1565.059	1568.256	1568.256	1566.657	1566.657	1565.059	1565.059	1565.059	1566.657
17.5	1635.398	1636.997	1636.997	1638.596	1638.596	1636.997	1635.398	1635.398	1636.997	1638.596
20.0	1712.133	1713.731	1716.929	1716.929	1716.929	1715.330	1712.133	1712.133	1716.929	1716.929
22.5	1798.459	1801.656	1801.656	1801.656	1801.656	1803.255	1800.057	1801.656	1801.656	1803.255
25.0	1894.376	1892.778	1892.778	1892.778	1892.778	1894.376	1892.778	1895.975	1892.778	1892.778
27.5	1991.893	1988.696	1985.498	1985.498	1985.498	1987.097	1988.696	1990.294	1987.097	1985.498
30.0	2081.416	2078.219	2075.022	2075.022	2075.022	2076.620	2079.818	2078.219	2076.620	2075.022
32.5	2162.946	2162.946	2159.749	2158.150	2158.150	2159.749	2161.348	2161.348	2161.348	2158.150
35.0	2238.082	2238.082	2234.885	2231.687	2233.286	2236.483	2236.483	2236.483	2236.483	2234.885
37.5	2300.429	2300.429	2298.830	2297.231	2295.633	2297.231	2297.231	2297.231	2298.830	2298.830
40.0	2349.986	2349.986	2349.986	2348.387	2346.789	2346.789	2346.789	2348.387	2348.387	2348.387
42.5	2385.156	2386.755	2385.156	2385.156	2381.959	2381.959	2381.959	2383.557	2383.557	2385.156
45.0	2407.537	2409.135	2405.938	2404.339	2402.741	2401.142	2404.339	2404.339	2404.339	2404.339
47.5	2413.931	2413.931	2412.333	2405.938	2404.339	2405.938	2407.537	2409.135	2409.135	2407.537
50.0	2401.142	2397.945	2399.544	2391.550	2389.952	2391.550	2389.952	2389.952	2396.346	2393.149
52.5	2365.972	2364.374	2365.972	2359.578	2356.381	2357.979	2353.183	2354.782	2361.176	2361.176
55.0	2314.816	2311.619	2313.218	2306.823	2303.626	2303.626	2300.429	2303.626	2308.422	2308.422
57.5	2242.878	2241.279	2241.279	2234.885	2228.490	2228.490	2230.089	2231.687	2234.885	2236.483
60.0	2145.361	2148.559	2145.361	2138.967	2134.171	2135.770	2135.770	2140.566	2143.763	2142.164
62.5	2025.464	2035.056	2031.859	2023.866	2019.070	2020.668	2022.267	2025.464	2028.661	2027.063
65.0	1892.778	1902.370	1889.581	1883.186	1886.383	1886.383	1887.982	1892.778	1891.179	1886.383
67.5	1747.303	1747.303	1739.309	1731.316	1728.119	1728.119	1734.513	1739.309	1737.711	1734.513
70.0	1576.249	1574.651	1574.651	1563.460	1560.263	1565.059	1566.657	1566.657	1573.052	1568.256
72.5	1386.012	1382.815	1390.808	1384.414	1381.216	1381.216	1368.427	1366.829	1390.808	1389.209
75.0	1186.183	1170.197	1187.782	1194.177	1190.979	1178.190	1157.408	1160.605	1181.388	1197.374
77.5	968.770	941.593	960.777	983.157	975.164	954.382	936.797	938.396	954.382	984.756
80.0	744.962	716.186	722.581	733.771	743.363	716.186	714.588	717.785	720.982	744.962
82.5	519.555	498.773	482.786	503.568	506.766	489.181	498.773	498.773	487.582	501.970
85.0	302.141	284.556	270.168	282.958	282.958	274.964	284.556	289.352	274.964	282.958
87.5	97.516	92.721	87.925	91.122	91.122	89.523	94.319	97.516	89.523	92.721
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	1381.216
2.5	1386.012
5.0	1397.203
7.5	1421.182
10.0	1457.951
12.5	1505.909
15.0	1569.855
17.5	1638.596
20.0	1718.527
22.5	1803.255
25.0	1892.778
27.5	1983.900
30.0	2075.022

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	2158.150
<b>35.0</b>	2231.687
<b>37.5</b>	2297.231
<b>40.0</b>	2348.387
<b>42.5</b>	2385.156
<b>45.0</b>	2404.339
<b>47.5</b>	2404.339
<b>50.0</b>	2389.952
<b>52.5</b>	2357.979
<b>55.0</b>	2305.224
<b>57.5</b>	2228.490
<b>60.0</b>	2130.974
<b>62.5</b>	2011.076
<b>65.0</b>	1876.792
<b>67.5</b>	1726.520
<b>70.0</b>	1552.270
<b>72.5</b>	1358.835
<b>75.0</b>	1149.415
<b>77.5</b>	935.199
<b>80.0</b>	719.383
<b>82.5</b>	481.188
<b>85.0</b>	274.964
<b>87.5</b>	94.319
<b>90.0</b>	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	585.46	N.A.	5.70
0-30	1467.33	N.A.	14.40
0-40	2869.33	N.A.	28.10
0-60	6776.05	N.A.	66.40
0-80	9864.96	N.A.	96.70
0-90	10200.11	N.A.	100.00
10-90	10064.71	N.A.	98.70
20-40	2283.87	N.A.	22.40
20-50	4136.74	N.A.	40.60
40-70	5765.15	N.A.	56.50
60-80	3088.91	N.A.	30.30
70-80	1230.48	N.A.	12.10
80-90	335.15	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	10200.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	135.40
10-20	450.06
20-30	881.87
30-40	1402.00
40-50	1852.87
50-60	2053.86
60-70	1858.43
70-80	1230.48
80-90	335.15
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

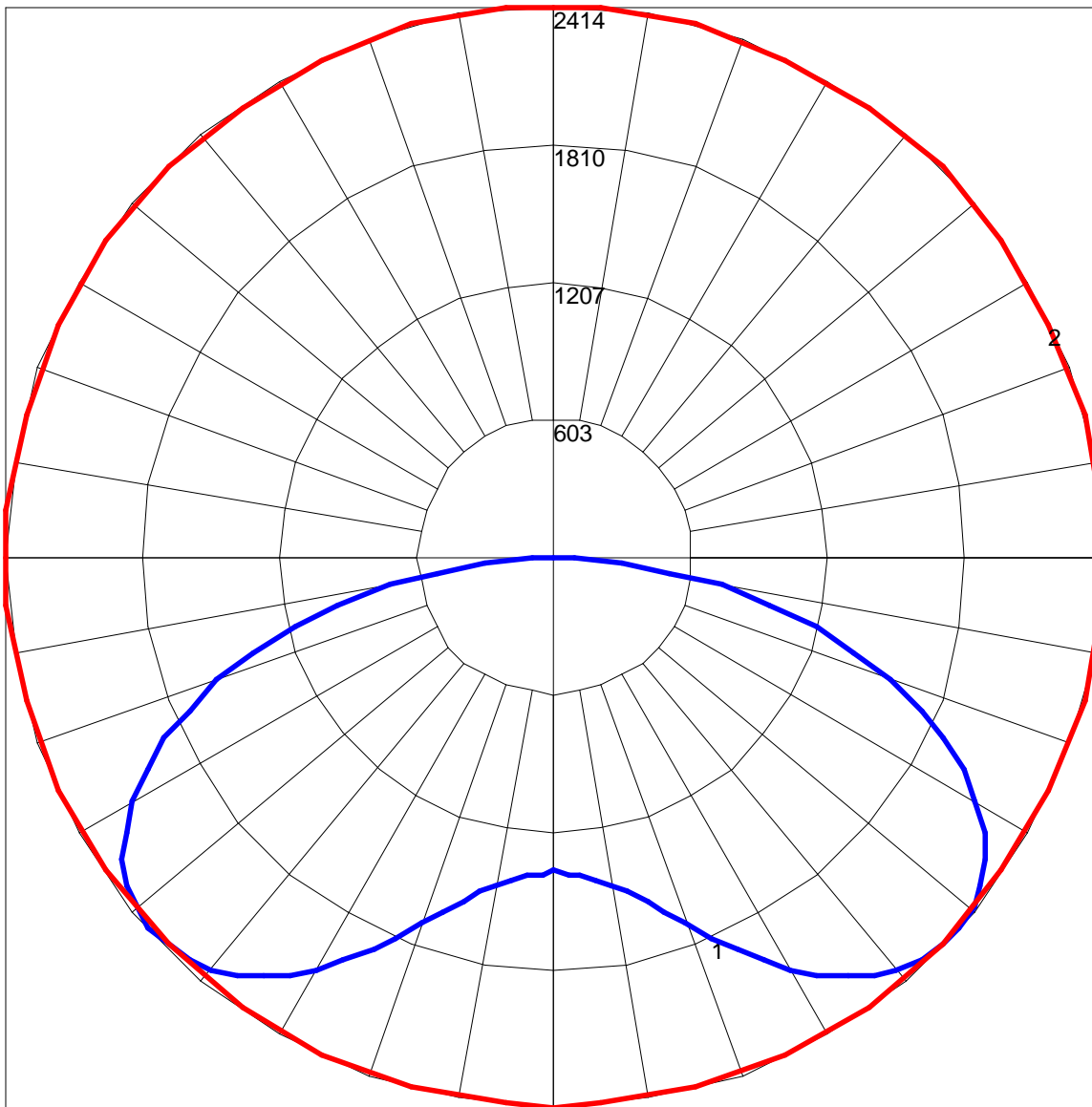
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2413.931 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.)