



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EXN-EGLED-08L-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-08L-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	8390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	60
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	30298	30218	30258
55	35913	35740	35764
65	39855	39720	39518
75	40784	40509	39519
85	30849	28074	28074

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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	1136.117	1136.117	1136.117	1136.117	1136.117	1136.117	1136.117	1136.117	1136.117	1136.117
2.5	1138.747	1138.747	1138.747	1138.747	1138.747	1137.432	1138.747	1138.747	1138.747	1138.747
5.0	1150.581	1149.266	1149.266	1149.266	1150.581	1149.266	1150.581	1150.581	1150.581	1150.581
7.5	1170.305	1170.305	1168.991	1168.991	1168.991	1171.620	1170.305	1170.305	1170.305	1170.305
10.0	1200.549	1200.549	1201.864	1200.549	1200.549	1200.549	1200.549	1201.864	1200.549	1201.864
12.5	1238.683	1238.683	1239.998	1241.313	1239.998	1239.998	1239.998	1239.998	1238.683	1239.998
15.0	1287.336	1287.336	1289.966	1289.966	1288.651	1288.651	1287.336	1287.336	1287.336	1288.651
17.5	1345.194	1346.509	1346.509	1347.824	1347.824	1346.509	1345.194	1345.194	1346.509	1347.824
20.0	1408.311	1409.626	1412.256	1412.256	1412.256	1410.941	1408.311	1408.311	1412.256	1412.256
22.5	1479.319	1481.949	1481.949	1481.949	1481.949	1483.264	1480.634	1481.949	1481.949	1483.264
25.0	1558.216	1556.901	1556.901	1556.901	1556.901	1558.216	1556.901	1559.531	1556.901	1556.901
27.5	1638.428	1635.798	1633.168	1633.168	1633.168	1634.483	1635.798	1637.113	1634.483	1633.168
30.0	1712.065	1709.435	1706.805	1706.805	1706.805	1708.120	1710.750	1709.435	1708.120	1706.805
32.5	1779.127	1779.127	1776.497	1775.182	1775.182	1776.497	1777.812	1777.812	1777.812	1775.182
35.0	1840.930	1840.930	1838.300	1835.670	1836.985	1839.615	1839.615	1839.615	1839.615	1838.300
37.5	1892.213	1892.213	1890.898	1889.583	1888.268	1889.583	1889.583	1889.583	1890.898	1890.898
40.0	1932.976	1932.976	1932.976	1931.662	1930.347	1930.347	1930.347	1931.662	1931.662	1931.662
42.5	1961.905	1963.220	1961.905	1961.905	1959.275	1959.275	1959.275	1960.590	1960.590	1961.905
45.0	1980.315	1981.630	1979.000	1977.685	1976.370	1975.055	1977.685	1977.685	1977.685	1977.685
47.5	1985.574	1985.574	1984.260	1979.000	1977.685	1979.000	1980.315	1981.630	1981.630	1980.315
50.0	1975.055	1972.425	1973.740	1967.165	1965.850	1967.165	1965.850	1965.850	1971.110	1968.480
52.5	1946.126	1944.811	1946.126	1940.866	1938.236	1939.551	1935.606	1936.921	1942.181	1942.181
55.0	1904.048	1901.418	1902.733	1897.473	1894.843	1894.843	1892.213	1894.843	1898.788	1898.788
57.5	1844.875	1843.560	1843.560	1838.300	1833.040	1833.040	1834.355	1835.670	1838.300	1839.615
60.0	1764.663	1767.293	1764.663	1759.403	1755.458	1756.773	1756.773	1760.718	1763.348	1762.033
62.5	1666.042	1673.931	1671.301	1664.727	1660.782	1662.097	1663.412	1666.042	1668.672	1667.357
65.0	1556.901	1564.790	1554.271	1549.011	1551.641	1551.641	1552.956	1556.901	1555.586	1551.641
67.5	1437.240	1437.240	1430.666	1424.091	1421.461	1421.461	1426.721	1430.666	1429.351	1426.721
70.0	1296.541	1295.226	1295.226	1286.021	1283.391	1287.336	1288.651	1288.651	1293.911	1289.966
72.5	1140.062	1137.432	1144.006	1138.747	1136.117	1136.117	1125.597	1124.282	1144.006	1142.692
75.0	975.693	962.543	977.008	982.268	979.638	969.118	952.024	954.654	971.748	984.898
77.5	796.860	774.506	790.285	808.694	802.119	785.025	770.561	771.876	785.025	810.009
80.0	612.767	589.098	594.357	603.562	611.452	589.098	587.783	590.413	593.042	612.767
82.5	427.359	410.264	397.115	414.209	416.839	402.375	410.264	410.264	401.060	412.894
85.0	248.526	234.061	222.227	232.746	232.746	226.171	234.061	238.006	226.171	232.746
87.5	80.212	76.267	72.322	74.952	74.952	73.637	77.582	80.212	73.637	76.267
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	1136.117
2.5	1140.062
5.0	1149.266
7.5	1168.991
10.0	1199.234
12.5	1238.683
15.0	1291.281
17.5	1347.824
20.0	1413.571
22.5	1483.264
25.0	1556.901
27.5	1631.853
30.0	1706.805

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	1775.182
<b>35.0</b>	1835.670
<b>37.5</b>	1889.583
<b>40.0</b>	1931.662
<b>42.5</b>	1961.905
<b>45.0</b>	1977.685
<b>47.5</b>	1977.685
<b>50.0</b>	1965.850
<b>52.5</b>	1939.551
<b>55.0</b>	1896.158
<b>57.5</b>	1833.040
<b>60.0</b>	1752.828
<b>62.5</b>	1654.207
<b>65.0</b>	1543.751
<b>67.5</b>	1420.146
<b>70.0</b>	1276.816
<b>72.5</b>	1117.707
<b>75.0</b>	945.449
<b>77.5</b>	769.246
<b>80.0</b>	591.727
<b>82.5</b>	395.800
<b>85.0</b>	226.171
<b>87.5</b>	77.582
<b>90.0</b>	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	481.57	N.A.	5.70
0-30	1206.95	N.A.	14.40
0-40	2360.16	N.A.	28.10
0-60	5573.63	N.A.	66.40
0-80	8114.4	N.A.	96.70
0-90	8390.08	N.A.	100.00
10-90	8278.71	N.A.	98.70
20-40	1878.59	N.A.	22.40
20-50	3402.66	N.A.	40.60
40-70	4742.11	N.A.	56.50
60-80	2540.77	N.A.	30.30
70-80	1012.13	N.A.	12.10
80-90	275.68	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	8390.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	111.37
10-20	370.20
20-30	725.38
30-40	1153.21
40-50	1524.07
50-60	1689.4
60-70	1528.65
70-80	1012.13
80-90	275.68
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

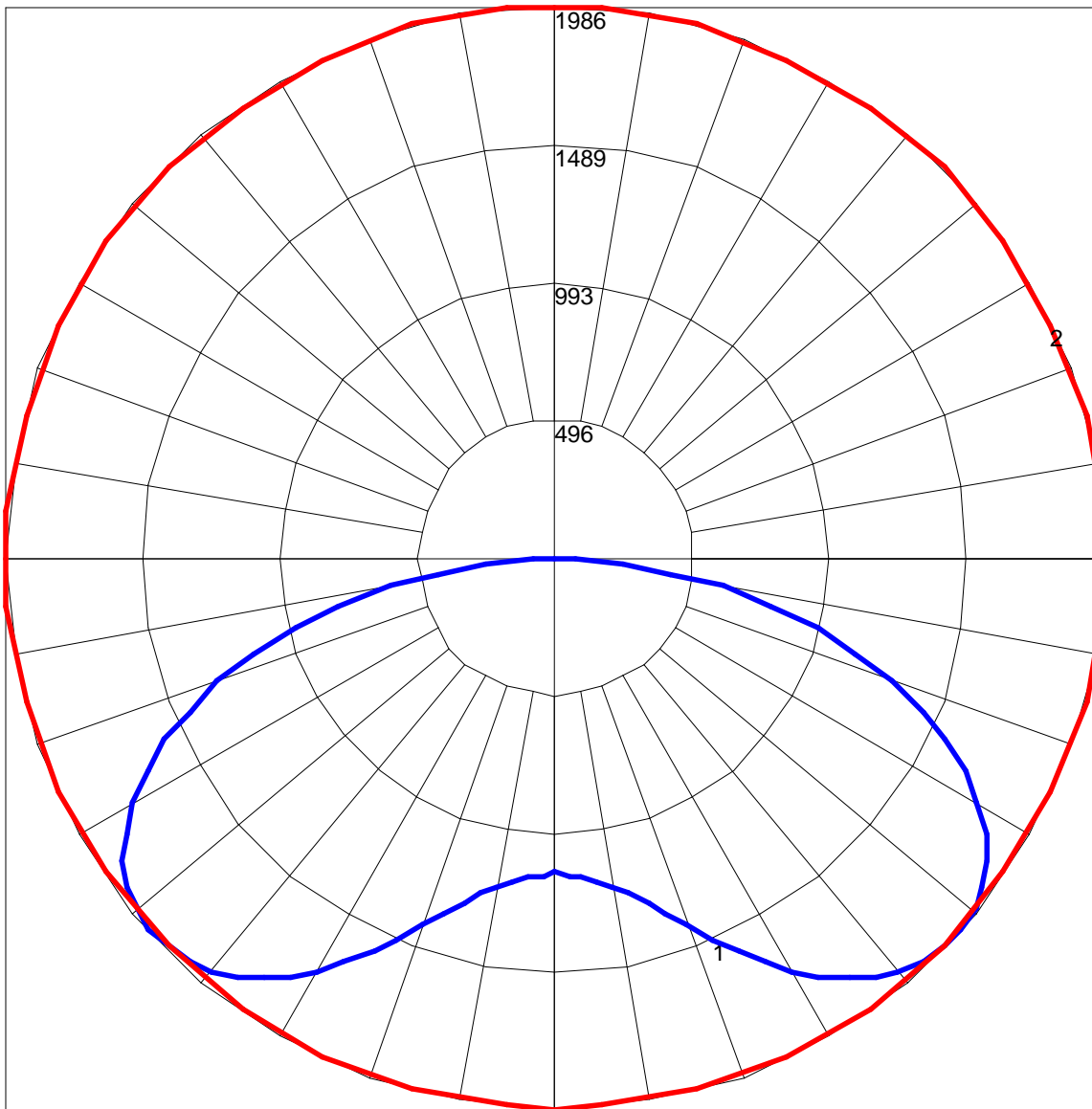
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1985.574 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.)