



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EXN-EGLED-08L-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-08L-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	8230
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	60
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	27642	27815	27772
55	40037	41186	41400
65	52959	55172	55825
75	57986	60296	61007
85	38168	38168	38344

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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	363.972	363.972	363.972	363.972	363.972	363.972	363.972	363.972	363.972	363.972
2.5	365.286	365.286	365.286	365.286	365.286	365.286	365.286	365.286	363.972	365.286
5.0	378.426	378.426	379.740	379.740	379.740	378.426	378.426	378.426	378.426	378.426
7.5	403.392	404.706	406.020	406.020	404.706	403.392	403.392	403.392	403.392	403.392
10.0	438.869	440.183	441.497	441.497	441.497	438.869	438.869	437.555	438.869	440.183
12.5	487.487	488.801	490.115	490.115	490.115	487.487	486.173	486.173	487.487	490.115
15.0	547.930	550.558	551.872	551.872	550.558	547.930	546.616	547.930	547.930	550.558
17.5	622.827	622.827	622.827	621.513	621.513	621.513	618.885	621.513	621.513	621.513
20.0	709.549	706.921	706.921	704.293	702.979	704.293	704.293	702.979	705.607	702.979
22.5	801.528	800.214	798.900	796.272	796.272	796.272	798.900	797.586	797.586	794.958
25.0	901.390	900.076	898.762	897.448	897.448	898.762	897.448	897.448	900.076	896.134
27.5	1007.823	1007.823	1006.509	1003.881	1002.567	1002.567	1002.567	1002.567	1003.881	1002.567
30.0	1114.255	1115.569	1112.941	1112.941	1111.627	1112.941	1108.999	1108.999	1110.313	1112.941
32.5	1218.059	1219.373	1220.687	1222.001	1220.687	1216.745	1212.804	1211.490	1214.118	1216.745
35.0	1317.922	1320.550	1324.492	1328.434	1323.178	1319.236	1312.666	1311.352	1316.608	1319.236
37.5	1415.156	1417.784	1424.354	1426.982	1423.040	1416.470	1408.587	1408.587	1413.842	1416.470
40.0	1508.449	1511.077	1518.961	1521.589	1515.019	1508.449	1501.879	1500.565	1504.507	1509.763
42.5	1595.172	1601.742	1606.998	1608.311	1604.370	1597.800	1588.602	1588.602	1592.544	1597.800
45.0	1675.324	1683.208	1692.406	1692.406	1691.092	1685.836	1672.697	1671.383	1680.580	1684.522
47.5	1759.419	1763.361	1781.757	1779.129	1777.815	1776.501	1758.105	1755.477	1775.187	1773.873
50.0	1836.944	1840.886	1867.166	1864.538	1864.538	1865.852	1840.886	1840.886	1867.166	1863.224
52.5	1910.527	1918.411	1949.946	1948.632	1949.946	1953.888	1922.353	1922.353	1957.830	1953.888
55.0	1968.342	1980.168	2019.587	2020.901	2024.843	2024.843	1988.052	1989.366	2031.413	2034.041
57.5	2002.505	2019.587	2066.891	2074.774	2076.088	2076.088	2031.413	2034.041	2086.600	2093.170
60.0	2006.447	2027.471	2081.344	2089.228	2093.170	2093.170	2041.925	2048.495	2106.310	2114.194
62.5	1980.168	2001.192	2053.751	2061.635	2066.891	2069.518	2019.587	2027.471	2082.658	2089.228
65.0	1918.411	1934.179	1984.110	1994.622	1999.878	1998.564	1953.888	1963.086	2013.017	2023.529
67.5	1813.292	1827.746	1877.677	1888.189	1894.759	1892.131	1847.456	1855.340	1906.585	1918.411
70.0	1666.127	1684.522	1731.826	1742.337	1747.593	1746.279	1696.348	1704.232	1756.791	1768.617
72.5	1491.367	1503.193	1551.810	1558.380	1562.322	1559.694	1518.961	1528.159	1568.892	1580.718
75.0	1286.386	1294.270	1331.062	1338.946	1340.260	1337.632	1308.724	1317.922	1349.457	1348.143
77.5	1055.126	1053.812	1073.522	1063.010	1077.464	1089.289	1072.208	1078.778	1098.487	1087.975
80.0	802.842	800.214	798.900	797.586	797.586	818.610	814.668	821.237	819.924	813.354
82.5	541.360	533.476	530.848	532.162	532.162	540.046	550.558	547.930	540.046	538.732
85.0	285.134	283.820	283.820	286.448	286.448	285.134	295.645	285.134	289.076	290.390
87.5	82.781	89.351	89.351	90.665	90.665	89.351	88.037	84.095	91.979	91.979
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	363.972
2.5	365.286
5.0	379.740
7.5	404.706
10.0	441.497
12.5	490.115
15.0	549.244
17.5	620.199
20.0	702.979
22.5	794.958
25.0	896.134
27.5	1001.253
30.0	1108.999

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	1212.804
<b>35.0</b>	1320.550
<b>37.5</b>	1416.470
<b>40.0</b>	1511.077
<b>42.5</b>	1595.172
<b>45.0</b>	1683.208
<b>47.5</b>	1772.559
<b>50.0</b>	1861.910
<b>52.5</b>	1952.574
<b>55.0</b>	2035.355
<b>57.5</b>	2094.484
<b>60.0</b>	2115.508
<b>62.5</b>	2089.228
<b>65.0</b>	2022.215
<b>67.5</b>	1918.411
<b>70.0</b>	1769.931
<b>72.5</b>	1580.718
<b>75.0</b>	1353.399
<b>77.5</b>	1097.173
<b>80.0</b>	802.842
<b>82.5</b>	534.790
<b>85.0</b>	286.448
<b>87.5</b>	90.665
<b>90.0</b>	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	200.11	N.A.	2.40
0-30	623.13	N.A.	7.60
0-40	1454.85	N.A.	17.70
0-60	4555.14	N.A.	55.30
0-80	7871.25	N.A.	95.60
0-90	8230.04	N.A.	100.00
10-90	8191.91	N.A.	99.50
20-40	1254.74	N.A.	15.20
20-50	2562.67	N.A.	31.10
40-70	5038.25	N.A.	61.20
60-80	3316.11	N.A.	40.30
70-80	1378.15	N.A.	16.70
80-90	358.79	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	8230.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.14
10-20	161.98
20-30	423.02
30-40	831.72
40-50	1307.93
50-60	1792.35
60-70	1937.96
70-80	1378.15
80-90	358.79
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

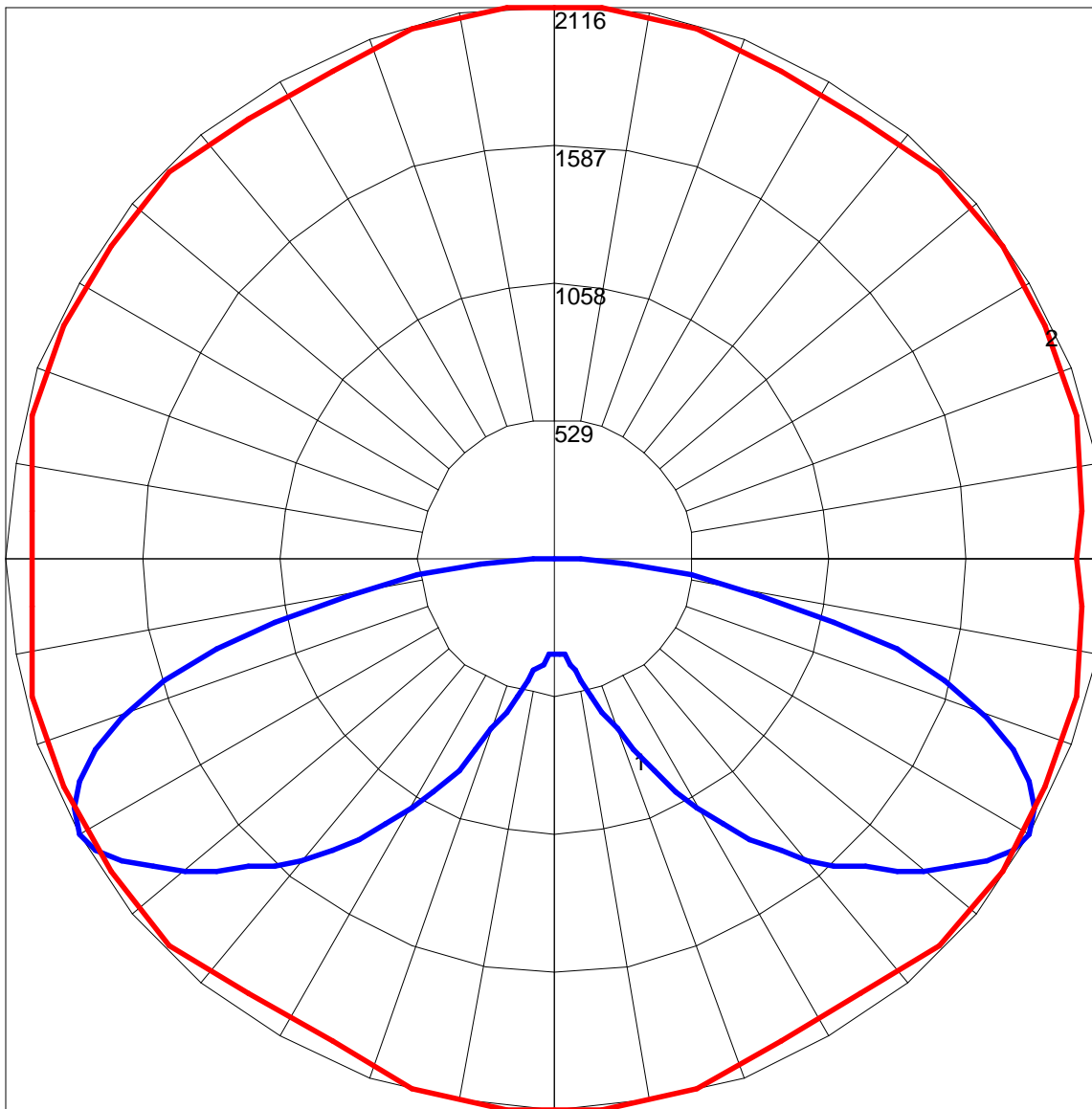
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 2115.508 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.)