



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-11L-T5N-40-70CRI-HSS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10659
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]11/3/18
[TESTDATE]10/31/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]EXN-EGLED-11L-T5N-40-70CRI-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8392
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	85.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.50
Spacing Criterion (90-270)	2.24
Spacing Criterion (Diagonal)	2.10
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	44762	43476	36777
55	52437	51400	42186
65	57779	56758	43645
75	55670	56932	39442
85	38016	38552	22622

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CANDELA TABULATION

	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>17.5</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313
2.5	1328	1329	1328	1328	1327	1328	1327	1327	1326	1324
5.0	1363	1364	1361	1361	1359	1359	1356	1352	1348	1343
7.5	1407	1409	1405	1408	1405	1400	1394	1388	1381	1372
10.0	1464	1466	1463	1464	1460	1453	1444	1435	1424	1412
12.5	1534	1535	1533	1532	1527	1519	1507	1494	1479	1463
15.0	1615	1618	1619	1614	1611	1596	1581	1564	1546	1525
17.5	1711	1717	1714	1708	1705	1690	1668	1647	1624	1598
20.0	1830	1825	1820	1814	1809	1791	1765	1739	1711	1679
22.5	1949	1944	1938	1937	1924	1902	1876	1846	1812	1774
25.0	2076	2070	2063	2061	2045	2019	1989	1953	1913	1869
27.5	2209	2202	2191	2189	2169	2139	2103	2068	2017	1965
30.0	2338	2332	2316	2312	2289	2255	2220	2174	2117	2058
32.5	2458	2452	2432	2426	2402	2363	2323	2274	2215	2144
35.0	2552	2549	2534	2528	2502	2462	2418	2362	2298	2222
37.5	2616	2615	2611	2608	2584	2548	2497	2438	2369	2286
40.0	2665	2666	2662	2661	2645	2612	2561	2500	2427	2340
42.5	2697	2698	2697	2698	2686	2656	2607	2546	2469	2376
45.0	2713	2715	2716	2716	2707	2680	2635	2573	2493	2396
47.5	2711	2714	2716	2716	2706	2682	2642	2580	2499	2398
50.0	2688	2692	2694	2694	2683	2662	2626	2567	2483	2379
52.5	2646	2649	2650	2651	2641	2620	2587	2528	2445	2339
55.0	2578	2584	2587	2588	2580	2560	2527	2465	2385	2279
57.5	2484	2497	2502	2502	2497	2478	2440	2383	2303	2199
60.0	2370	2387	2395	2391	2388	2370	2334	2278	2194	2097
62.5	2242	2248	2256	2247	2250	2233	2205	2149	2069	1965
65.0	2093	2095	2094	2092	2091	2084	2056	2000	1923	1817
67.5	1919	1913	1923	1925	1919	1906	1891	1834	1757	1655
70.0	1697	1721	1731	1737	1723	1713	1697	1653	1573	1468
72.5	1472	1516	1517	1515	1506	1500	1490	1446	1368	1275
75.0	1235	1294	1284	1282	1271	1268	1263	1220	1161	1067
77.5	996	1049	1033	1028	1025	1024	1004	988	930	840
80.0	754	780	773	758	778	767	754	744	700	619
82.5	512	523	509	508	511	524	511	504	472	408
85.0	284	284	269	280	281	284	288	281	261	224
87.5	94	84	85	86	91	94	96	102	89	78
90.0	41	41	40	39	38	37	33	27	21	18
92.5	41	41	40	40	39	37	33	24	15	8
95.0	38	39	38	37	36	35	30	22	13	7
97.5	34	34	34	33	33	31	27	19	10	5
100.0	29	29	28	28	27	26	23	16	8	3
102.5	22	22	21	21	20	20	18	12	5	2
105.0	15	14	14	14	14	14	13	8	3	1
107.5	6	6	7	7	8	9	8	5	2	1
110.0	0	0	2	2	4	4	4	3	1	1
112.5	0	0	0	0	1	2	2	2	1	1
115.0	0	0	0	0	1	1	1	1	1	2
117.5	0	0	0	0	1	1	1	1	1	1
120.0	0	0	0	0	1	1	1	1	1	2
122.5	0	0	0	0	1	1	1	1	1	2
125.0	0	0	1	1	1	1	1	1	1	2
127.5	0	1	1	1	1	1	1	1	1	2
130.0	1	1	1	1	1	1	1	1	1	1
132.5	1	1	1	1	1	1	1	1	1	1

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CANDELA TABULATION - (Cont.)

135.0	1	1	1	1	1	1	1	1	1	2
137.5	1	1	1	1	1	1	1	1	1	1
140.0	1	1	1	1	1	1	1	1	1	1
142.5	1	1	1	1	1	1	1	1	1	1
145.0	1	1	1	1	1	1	1	1	1	1
147.5	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1	1	1	1
152.5	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1
157.5	1	1	1	1	1	1	1	1	1	1
160.0	1	1	1	1	1	1	1	1	1	1
162.5	1	1	1	1	1	1	1	1	1	1
165.0	1	1	1	1	1	1	1	1	1	1
167.5	1	1	1	1	1	1	1	1	1	1
170.0	1	1	1	1	1	1	1	1	1	1
172.5	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	1313	1313	1313	1313	1313	1313	1313	1313	1313	1313
2.5	1322	1320	1319	1316	1313	1309	1306	1304	1302	1301
5.0	1336	1333	1330	1323	1316	1309	1303	1298	1294	1292
7.5	1362	1357	1351	1341	1330	1319	1310	1302	1296	1293
10.0	1397	1391	1383	1368	1353	1339	1326	1316	1308	1303
12.5	1445	1436	1426	1406	1386	1369	1353	1339	1330	1322
15.0	1505	1493	1478	1453	1429	1407	1388	1373	1359	1350
17.5	1573	1558	1540	1510	1481	1455	1434	1414	1399	1386
20.0	1649	1631	1613	1575	1541	1509	1484	1461	1442	1430
22.5	1734	1712	1691	1649	1606	1572	1539	1512	1492	1477
25.0	1822	1797	1772	1723	1674	1634	1597	1566	1542	1524
27.5	1911	1883	1854	1798	1745	1696	1653	1617	1590	1570
30.0	1996	1965	1932	1868	1811	1755	1703	1662	1631	1609
32.5	2075	2039	2002	1933	1864	1801	1744	1697	1661	1636
35.0	2145	2104	2063	1985	1907	1835	1771	1719	1678	1649
37.5	2201	2156	2112	2023	1935	1854	1784	1723	1676	1643
40.0	2245	2195	2146	2046	1948	1858	1778	1710	1656	1618
42.5	2276	2221	2166	2055	1946	1845	1755	1674	1614	1571
45.0	2288	2229	2169	2046	1927	1813	1712	1620	1548	1502
47.5	2281	2220	2155	2022	1889	1763	1646	1545	1464	1406
50.0	2255	2191	2120	1979	1832	1694	1561	1446	1354	1290
52.5	2210	2142	2065	1912	1755	1599	1455	1325	1221	1149
55.0	2147	2074	1993	1828	1650	1487	1329	1186	1069	986
57.5	2063	1985	1902	1720	1536	1350	1185	1029	899	804
60.0	1957	1873	1783	1598	1402	1203	1026	855	713	608
62.5	1823	1735	1650	1459	1252	1044	844	663	511	397
65.0	1676	1581	1503	1306	1091	875	667	473	317	209
67.5	1506	1422	1340	1142	923	704	490	309	162	64
70.0	1329	1250	1156	972	755	540	340	176	60	4
72.5	1137	1066	973	789	593	386	217	87	17	0
75.0	937	875	786	617	428	258	127	39	4	0
77.5	736	684	594	446	298	164	65	16	1	0
80.0	531	491	425	304	191	95	32	6	0	0

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82.5	351	313	274	187	110	49	14	2	0	0
85.0	186	169	148	97	53	21	5	1	0	0
87.5	66	58	48	34	17	6	1	0	0	0
90.0	12	8	6	4	1	1	1	0	0	0
92.5	2	1	1	1	1	1	1	1	0	0
95.0	2	1	1	1	1	1	1	1	1	0
97.5	1	1	1	1	1	1	1	1	1	0
100.0	1	1	1	2	1	1	1	1	1	1
102.5	1	1	1	2	2	2	1	1	1	1
105.0	2	2	2	2	2	2	2	1	1	1
107.5	1	2	2	2	2	2	2	1	1	1
110.0	2	2	2	2	2	2	2	1	1	1
112.5	2	2	2	2	2	2	2	2	2	1
115.0	2	2	2	2	2	2	2	2	2	1
117.5	2	2	2	2	2	2	2	2	2	2
120.0	2	2	2	2	2	2	2	2	2	2
122.5	2	2	2	2	2	2	2	2	2	2
125.0	2	2	2	2	2	2	2	2	2	2
127.5	2	2	2	2	2	2	2	2	2	2
130.0	2	2	2	2	2	2	2	1	1	2
132.5	2	2	2	2	2	2	2	1	2	1
135.0	2	2	2	2	2	2	2	1	1	1
137.5	2	2	1	2	2	2	2	1	1	1
140.0	1	2	1	2	2	2	2	1	1	1
142.5	1	1	1	1	1	1	1	1	1	1
145.0	1	1	1	1	1	1	1	1	1	1
147.5	1	1	1	1	1	1	1	1	1	1
150.0	1	1	1	1	1	1	1	1	1	1
152.5	1	1	1	1	1	1	1	1	1	1
155.0	1	1	1	1	1	1	1	1	1	1
157.5	1	1	1	1	1	1	1	1	1	0
160.0	1	1	1	1	1	1	1	1	1	0
162.5	1	1	1	1	1	1	1	1	1	0
165.0	1	1	1	1	1	1	1	1	1	0
167.5	1	1	1	1	1	1	1	1	0	0
170.0	1	1	1	1	1	1	1	1	0	0
172.5	1	1	1	1	1	1	1	0	0	0
175.0	1	1	1	1	1	1	1	0	0	0
177.5	1	1	1	1	1	1	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1313	1313
2.5	1299	1300
5.0	1291	1290
7.5	1290	1290
10.0	1300	1299
12.5	1318	1318
15.0	1345	1345
17.5	1380	1380
20.0	1423	1420
22.5	1469	1466
25.0	1515	1512
27.5	1560	1561

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CANDELA TABULATION - (Cont.)

30.0	1597	1598
32.5	1623	1623
35.0	1634	1632
37.5	1625	1623
40.0	1597	1595
42.5	1549	1546
45.0	1477	1474
47.5	1382	1378
50.0	1256	1258
52.5	1111	1099
55.0	943	930
57.5	755	740
60.0	542	536
62.5	336	329
65.0	144	136
67.5	8	3
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	0	0
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	2	2
115.0	2	1
117.5	2	2
120.0	2	2
122.5	2	2
125.0	2	2
127.5	2	2
130.0	2	1
132.5	1	1
135.0	1	1
137.5	1	1
140.0	1	1
142.5	1	1
145.0	1	1
147.5	1	1
150.0	1	1
152.5	1	1
155.0	1	1
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0
167.5	0	0

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CANDELA TABULATION - (Cont.)

170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	1	1

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	555.58	N.A.	6.60
0-30	1390.76	N.A.	16.60
0-40	2702.69	N.A.	32.20
0-60	6075.42	N.A.	72.40
0-80	8179.5	N.A.	97.50
0-90	8367.03	N.A.	99.70
10-90	8238.3	N.A.	98.20
20-40	2147.12	N.A.	25.60
20-50	3813.39	N.A.	45.40
40-70	4713.86	N.A.	56.20
60-80	2104.08	N.A.	25.10
70-80	762.94	N.A.	9.10
80-90	187.53	N.A.	2.20
90-110	19.45	N.A.	0.20
90-120	20.98	N.A.	0.30
90-130	22.35	N.A.	0.30
90-150	24.04	N.A.	0.30
90-180	24.81	N.A.	0.30
110-180	5.36	N.A.	0.10
0-180	8391.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.73
10-20	426.85
20-30	835.18
30-40	1311.94
40-50	1666.28
50-60	1706.45
60-70	1341.14
70-80	762.94
80-90	187.53
90-100	13.63
100-110	5.83
110-120	1.52
120-130	1.37
130-140	1.05
140-150	0.65
150-160	0.45
160-170	0.25
170-180	0.08

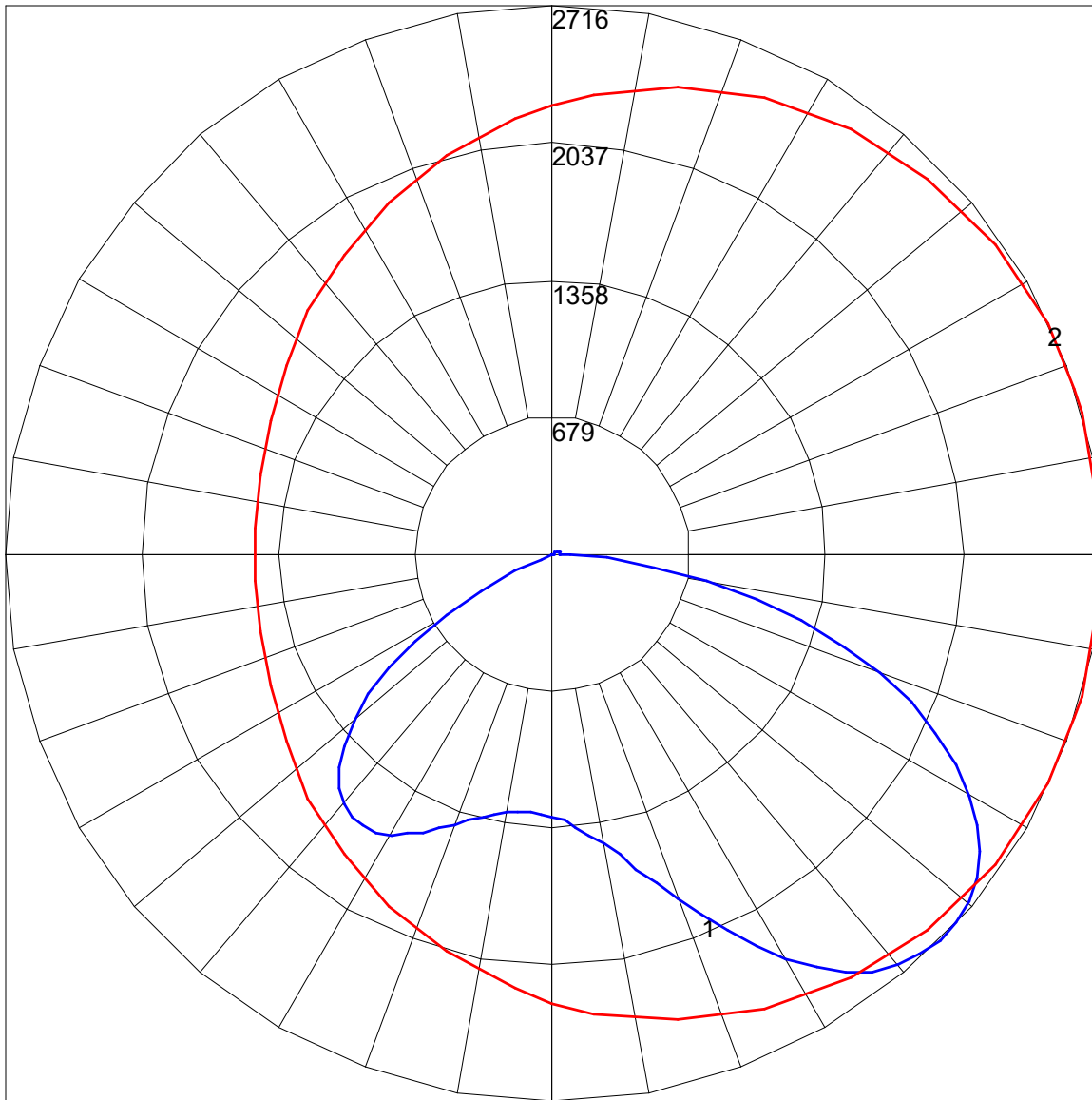
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	107	102	97	93	104	100	95	91	95	92	88	91	88	86	88	85	83	81
2	96	87	79	73	93	85	78	72	81	75	70	78	73	69	75	71	67	65
3	87	75	66	58	84	73	65	58	70	63	57	67	61	56	64	59	55	52
4	78	65	55	48	76	64	55	47	61	53	47	58	52	46	56	50	45	43
5	71	57	47	40	69	56	47	40	54	45	39	52	44	39	50	43	38	36
6	65	51	41	34	63	50	40	34	48	39	33	46	38	33	44	38	32	30
7	60	45	36	29	58	44	35	29	43	34	29	41	34	28	40	33	28	26
8	55	41	31	25	54	40	31	25	39	31	25	37	30	25	36	29	24	22
9	51	37	28	22	50	36	28	22	35	27	22	34	27	22	33	26	22	20
10	48	34	25	20	46	33	25	19	32	25	19	31	24	19	30	24	19	17

POLAR GRAPH



Maximum Candela = 2716 Located At Horizontal Angle = 15, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)