



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-11L-T5W-40-70CRI-HSS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10594
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]10/17/18
[TESTDATE]09/21/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]EXN-EGLED-11L-T5W-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	7751
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	87
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.98
Spacing Criterion (90-270)	3.72
Spacing Criterion (Diagonal)	3.16
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	33705	33277	28809
55	47437	48531	40458
65	61079	63869	50353
75	65040	68468	47819
85	42452	43569	23088

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CANDELA TABULATION

	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>22.5</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	447	447	447	447	447	447	447	447	447	447
2.5	447	448	447	448	447	448	448	449	449	450
5.0	462	463	462	464	462	464	464	465	466	467
7.5	491	492	493	494	493	494	494	495	496	497
10.0	537	538	538	540	542	539	539	539	540	541
12.5	598	599	604	601	604	603	598	598	599	600
15.0	678	683	684	680	683	681	675	674	674	673
17.5	774	780	781	775	778	775	773	769	763	764
20.0	899	893	895	886	889	885	882	874	864	864
22.5	1027	1021	1022	1018	1015	1009	1002	997	982	973
25.0	1168	1163	1162	1157	1154	1145	1134	1125	1105	1092
27.5	1321	1323	1310	1310	1300	1288	1277	1260	1241	1219
30.0	1477	1479	1460	1459	1449	1439	1417	1396	1371	1343
32.5	1630	1634	1619	1608	1597	1582	1558	1529	1498	1465
35.0	1771	1777	1765	1754	1748	1723	1694	1657	1621	1583
37.5	1892	1900	1899	1890	1889	1856	1823	1781	1739	1694
40.0	2001	2009	2016	2011	2011	1986	1942	1901	1851	1797
42.5	2100	2115	2120	2120	2121	2102	2061	2013	1956	1894
45.0	2203	2213	2225	2224	2227	2212	2175	2119	2058	1999
47.5	2296	2308	2330	2330	2329	2316	2288	2231	2162	2099
50.0	2385	2401	2431	2433	2427	2415	2400	2330	2262	2196
52.5	2462	2483	2522	2525	2520	2510	2495	2418	2346	2288
55.0	2515	2548	2594	2603	2598	2595	2573	2486	2409	2356
57.5	2540	2583	2641	2649	2647	2644	2623	2524	2445	2393
60.0	2532	2581	2642	2649	2650	2649	2631	2525	2443	2389
62.5	2488	2536	2597	2604	2605	2606	2588	2484	2401	2335
65.0	2386	2446	2502	2509	2514	2514	2495	2399	2308	2234
67.5	2244	2309	2358	2370	2372	2373	2351	2250	2172	2086
70.0	2053	2127	2166	2179	2179	2181	2149	2067	1983	1894
72.5	1822	1903	1933	1930	1942	1943	1914	1842	1760	1654
75.0	1556	1626	1658	1652	1664	1651	1638	1579	1500	1392
77.5	1266	1325	1316	1341	1321	1338	1327	1282	1208	1102
80.0	962	984	984	1009	992	990	994	961	896	801
82.5	625	657	654	677	664	661	648	639	574	501
85.0	342	356	356	358	362	359	351	320	302	257
87.5	115	119	120	119	122	121	111	102	88	80
90.0	0	0	0	0	0	0	0	0	0	0

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	447	447	447	447	447	447	447	447	447	447
2.5	450	450	450	450	449	449	448	448	447	448
5.0	467	467	467	468	468	468	468	467	467	467
7.5	499	499	497	498	498	498	498	498	498	498
10.0	544	544	542	542	542	541	542	544	542	542
12.5	602	602	602	599	597	596	600	600	601	598
15.0	674	674	673	669	667	665	668	667	669	669
17.5	758	756	755	749	747	747	746	743	744	745
20.0	854	850	848	841	835	835	833	828	828	830
22.5	960	955	951	945	935	927	924	920	918	919
25.0	1075	1068	1061	1049	1040	1030	1019	1014	1011	1010
27.5	1192	1183	1178	1160	1143	1129	1117	1107	1101	1097
30.0	1316	1297	1289	1264	1242	1223	1207	1194	1187	1184

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CANDELA TABULATION - (Cont.)

32.5	1431	1415	1397	1364	1334	1310	1291	1278	1267	1257
35.0	1542	1520	1499	1459	1418	1386	1365	1347	1332	1319
37.5	1645	1622	1594	1543	1493	1454	1426	1405	1385	1365
40.0	1745	1711	1679	1616	1559	1512	1473	1445	1418	1394
42.5	1836	1797	1764	1682	1615	1558	1510	1472	1437	1406
45.0	1925	1883	1840	1750	1662	1594	1537	1485	1440	1404
47.5	2009	1962	1910	1812	1705	1619	1552	1481	1424	1384
50.0	2090	2036	1976	1867	1733	1631	1550	1457	1386	1338
52.5	2165	2100	2036	1907	1746	1625	1524	1412	1322	1261
55.0	2227	2145	2079	1925	1736	1591	1469	1337	1226	1139
57.5	2254	2160	2091	1914	1696	1526	1380	1211	1082	978
60.0	2239	2138	2061	1865	1622	1426	1246	1053	891	761
62.5	2177	2073	1984	1775	1514	1291	1080	860	671	516
65.0	2072	1967	1868	1638	1371	1116	884	641	431	263
67.5	1921	1814	1710	1468	1177	913	674	421	214	60
70.0	1727	1627	1512	1260	978	710	471	239	75	1
72.5	1498	1407	1275	1043	771	517	291	121	18	0
75.0	1232	1144	1035	818	572	350	169	54	2	0
77.5	945	871	785	597	393	219	94	20	0	0
80.0	675	614	546	396	247	125	46	7	0	0
82.5	423	379	324	224	132	62	21	2	0	0
85.0	211	186	155	104	56	26	7	0	0	0
87.5	64	55	44	26	14	6	1	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	447	447
2.5	448	447
5.0	467	467
7.5	498	498
10.0	541	541
12.5	596	597
15.0	664	664
17.5	744	740
20.0	828	824
22.5	920	919
25.0	1010	1009
27.5	1099	1098
30.0	1181	1179
32.5	1252	1249
35.0	1310	1305
37.5	1355	1349
40.0	1383	1377
42.5	1393	1386
45.0	1384	1375
47.5	1353	1340
50.0	1296	1284
52.5	1209	1196
55.0	1082	1067
57.5	909	893
60.0	690	673
62.5	423	422
65.0	159	156
67.5	0	0

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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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	244.86	N.A.	3.20
0-30	751.30	N.A.	9.70
0-40	1712.73	N.A.	22.10
0-60	4910.52	N.A.	63.40
0-80	7520.45	N.A.	97.00
0-90	7750.77	N.A.	100.00
10-90	7703.91	N.A.	99.40
20-40	1467.87	N.A.	18.90
20-50	2896.3	N.A.	37.40
40-70	4822.18	N.A.	62.20
60-80	2609.92	N.A.	33.70
70-80	985.54	N.A.	12.70
80-90	230.33	N.A.	3.00
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	7750.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.87
10-20	197.99
20-30	506.45
30-40	961.42
40-50	1428.43
50-60	1769.37
60-70	1624.38
70-80	985.54
80-90	230.33
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	94	90	103	97	92	88	93	89	85	89	86	83	85	83	80	78
2	93	83	75	68	91	81	73	67	77	71	65	74	68	63	71	66	62	59
3	83	70	60	52	80	68	59	52	65	57	51	62	55	50	60	54	49	46
4	74	60	49	41	72	58	49	41	56	47	40	53	46	40	51	44	39	36
5	67	52	41	33	65	51	41	33	48	39	33	46	38	32	44	37	32	29
6	61	45	35	27	59	44	34	27	42	33	27	41	33	27	39	32	26	24
7	56	40	30	23	54	39	30	23	38	29	22	36	28	22	34	27	22	20
8	51	36	26	19	50	35	26	19	34	25	19	32	25	19	31	24	19	17
9	48	32	23	17	46	32	23	17	30	22	16	29	22	16	28	21	16	14
10	44	29	20	14	43	29	20	14	28	20	14	27	19	14	26	19	14	12

POLAR GRAPH



Maximum Candela = 2650 Located At Horizontal Angle = 25, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)