



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-08L-T5W-40-70CRI-HSS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10594_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUEDATE]10/17/18
[TESTDATE]09/21/18
[MANUFAC]LSI INDUSTRIES, INC
[LUMCAT]EXN-EGLED-08L-T5W-40-70CRI-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5731
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	60
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	24922	24605	21302
55	35075	35884	29915
65	45162	47225	37231
75	48091	50626	35358
85	31389	32216	17071

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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	330.516	330.516	330.516	330.516	330.516	330.516	330.516	330.516	330.516	330.516
2.5	330.516	331.256	330.516	331.256	330.516	331.256	331.256	331.995	331.995	332.734
5.0	341.607	342.347	341.607	343.086	341.607	343.086	343.086	343.826	344.565	345.304
7.5	363.050	363.790	364.529	365.269	364.529	365.269	365.269	366.008	366.747	367.487
10.0	397.063	397.803	397.803	399.281	400.760	398.542	398.542	398.542	399.281	400.021
12.5	442.167	442.907	446.604	444.385	446.604	445.864	442.167	442.167	442.907	443.646
15.0	501.320	505.017	505.756	502.799	505.017	503.538	499.102	498.362	498.362	497.623
17.5	572.303	576.740	577.479	573.043	575.261	573.043	571.564	568.606	564.170	564.909
20.0	664.730	660.293	661.772	655.117	657.335	654.378	652.160	646.244	638.850	638.850
22.5	759.374	754.938	755.677	752.719	750.501	746.065	740.889	737.192	726.101	719.446
25.0	863.631	859.934	859.194	855.497	853.279	846.624	838.491	831.836	817.048	807.436
27.5	976.761	978.239	968.627	968.627	961.233	952.360	944.227	931.657	917.608	901.341
30.0	1092.109	1093.587	1079.539	1078.799	1071.405	1064.011	1047.744	1032.216	1013.731	993.028
32.5	1205.238	1208.196	1197.105	1188.971	1180.838	1169.747	1152.001	1130.558	1107.636	1083.236
35.0	1309.495	1313.932	1305.059	1296.925	1292.489	1274.003	1252.561	1225.202	1198.584	1170.486
37.5	1398.964	1404.879	1404.140	1397.485	1396.745	1372.345	1347.944	1316.889	1285.834	1252.561
40.0	1479.559	1485.475	1490.651	1486.953	1486.953	1468.468	1435.934	1405.618	1368.648	1328.720
42.5	1552.761	1563.852	1567.549	1567.549	1568.289	1554.240	1523.924	1488.432	1446.286	1400.443
45.0	1628.920	1636.314	1645.187	1644.448	1646.666	1635.575	1608.217	1566.810	1521.706	1478.081
47.5	1697.685	1706.558	1722.825	1722.825	1722.086	1712.474	1691.770	1649.624	1598.604	1552.022
50.0	1763.493	1775.323	1797.506	1798.984	1794.548	1785.675	1774.584	1722.825	1672.545	1623.744
52.5	1820.427	1835.955	1864.792	1867.010	1863.313	1855.919	1844.828	1787.893	1734.656	1691.770
55.0	1859.616	1884.017	1918.029	1924.684	1920.987	1918.769	1902.502	1838.173	1781.239	1742.050
57.5	1878.101	1909.896	1952.782	1958.697	1957.218	1955.000	1939.472	1866.271	1807.857	1769.408
60.0	1872.186	1908.417	1953.521	1958.697	1959.436	1958.697	1945.388	1867.010	1806.379	1766.450
62.5	1839.652	1875.144	1920.248	1925.424	1926.163	1926.902	1913.593	1836.694	1775.323	1726.522
65.0	1764.232	1808.597	1850.004	1855.180	1858.877	1858.877	1844.828	1773.845	1706.558	1651.842
67.5	1659.236	1707.298	1743.529	1752.402	1753.880	1754.620	1738.353	1663.672	1605.998	1542.409
70.0	1518.009	1572.725	1601.562	1611.174	1611.174	1612.653	1588.992	1528.360	1466.250	1400.443
72.5	1347.205	1407.097	1429.279	1427.061	1435.934	1436.674	1415.231	1361.993	1301.362	1222.984
75.0	1150.522	1202.281	1225.942	1221.505	1230.378	1220.766	1211.154	1167.528	1109.115	1029.259
77.5	936.093	979.718	973.064	991.549	976.761	989.331	981.197	947.924	893.207	814.830
80.0	711.312	727.579	727.579	746.065	733.495	732.016	734.974	710.573	662.511	592.267
82.5	462.131	485.792	483.574	500.581	490.968	488.750	479.138	472.483	424.421	370.444
85.0	252.878	263.230	263.230	264.709	267.666	265.448	259.533	236.611	223.302	190.028
87.5	85.032	87.990	88.729	87.990	90.208	89.469	82.075	75.420	65.068	59.153
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>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	330.516	330.516	330.516	330.516	330.516	330.516	330.516	330.516	330.516	330.516
2.5	332.734	332.734	332.734	332.734	331.995	331.995	331.256	331.256	330.516	331.256
5.0	345.304	345.304	345.304	346.044	346.044	346.044	346.044	345.304	345.304	345.304
7.5	368.966	368.966	367.487	368.226	368.226	368.226	368.226	368.226	368.226	368.226
10.0	402.239	402.239	400.760	400.760	400.760	400.021	400.760	402.239	400.760	400.760
12.5	445.125	445.125	445.125	442.907	441.428	440.688	443.646	443.646	444.385	442.167
15.0	498.362	498.362	497.623	494.665	493.186	491.708	493.926	493.186	494.665	494.665
17.5	560.473	558.994	558.255	553.818	552.339	552.339	551.600	549.382	550.121	550.860
20.0	631.456	628.498	627.020	621.844	617.407	617.407	615.929	612.231	612.231	613.710
22.5	709.834	706.137	703.179	698.742	691.348	685.433	683.215	680.257	678.778	679.518
25.0	794.866	789.690	784.514	775.641	768.986	761.592	753.459	749.762	747.543	746.804
27.5	881.377	874.722	871.025	857.716	845.146	834.794	825.921	818.527	814.090	811.133
30.0	973.064	959.015	953.099	934.614	918.347	904.298	892.468	882.856	877.680	875.461

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CANDELA TABULATION - (Cont.)

32.5	1058.096	1046.265	1032.956	1008.555	986.373	968.627	954.578	944.966	936.832	929.438
35.0	1140.170	1123.903	1108.376	1078.799	1048.483	1024.822	1009.295	995.985	984.894	975.282
37.5	1216.329	1199.323	1178.620	1140.910	1103.939	1075.102	1054.399	1038.871	1024.083	1009.295
40.0	1290.270	1265.130	1241.469	1194.887	1152.740	1117.988	1089.151	1068.447	1048.483	1030.738
42.5	1357.557	1328.720	1304.319	1243.688	1194.147	1152.001	1116.509	1088.411	1062.532	1039.610
45.0	1423.364	1392.309	1360.514	1293.967	1228.899	1178.620	1136.473	1098.024	1064.750	1038.132
47.5	1485.475	1450.722	1412.273	1339.811	1260.694	1197.105	1147.564	1095.066	1052.920	1023.343
50.0	1545.367	1505.439	1461.074	1380.478	1281.398	1205.978	1146.085	1077.320	1024.822	989.331
52.5	1600.823	1552.761	1505.439	1410.055	1291.010	1201.541	1126.861	1044.047	977.500	932.396
55.0	1646.666	1586.034	1537.233	1423.364	1283.616	1176.401	1086.193	988.591	906.517	842.188
57.5	1666.630	1597.126	1546.106	1415.231	1254.039	1128.340	1020.386	895.425	800.042	723.143
60.0	1655.539	1580.859	1523.924	1379.000	1199.323	1054.399	921.305	778.599	658.814	562.691
62.5	1609.696	1532.797	1466.989	1312.453	1119.467	954.578	798.563	635.893	496.144	381.536
65.0	1532.057	1454.419	1381.218	1211.154	1013.731	825.182	653.638	473.962	318.686	194.465
67.5	1420.407	1341.290	1264.391	1085.454	870.286	675.081	498.362	311.292	158.234	44.365
70.0	1276.961	1203.020	1117.988	931.657	723.143	524.981	348.262	176.719	55.456	0.739
72.5	1107.636	1040.350	942.748	771.205	570.085	382.275	215.168	89.469	13.309	0.000
75.0	910.953	845.885	765.289	604.837	422.943	258.793	124.960	39.928	1.479	0.000
77.5	698.742	644.026	580.437	441.428	290.588	161.931	69.505	14.788	0.000	0.000
80.0	499.102	453.998	403.718	292.806	182.634	92.426	34.013	5.176	0.000	0.000
82.5	312.770	280.236	239.569	165.628	97.602	45.843	15.528	1.479	0.000	0.000
85.0	156.016	137.530	114.609	76.899	41.407	19.225	5.176	0.000	0.000	0.000
87.5	47.322	40.668	32.534	19.225	10.352	4.436	0.739	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	175.0	180.0
0.0	330.516	330.516
2.5	331.256	330.516
5.0	345.304	345.304
7.5	368.226	368.226
10.0	400.021	400.021
12.5	440.688	441.428
15.0	490.968	490.968
17.5	550.121	547.163
20.0	612.231	609.274
22.5	680.257	679.518
25.0	746.804	746.065
27.5	812.612	811.872
30.0	873.243	871.764
32.5	925.741	923.523
35.0	968.627	964.930
37.5	1001.901	997.464
40.0	1022.604	1018.168
42.5	1029.998	1024.822
45.0	1023.343	1016.689
47.5	1000.422	990.809
50.0	958.275	949.402
52.5	893.947	884.334
55.0	800.042	788.950
57.5	672.124	660.293
60.0	510.193	497.623
62.5	312.770	312.031
65.0	117.566	115.348
67.5	0.000	0.000

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CANDELA TABULATION - (Cont.)

70.0	0.000	0.000
72.5	0.000	0.000
75.0	0.000	0.000
77.5	0.000	0.000
80.0	0.000	0.000
82.5	0.000	0.000
85.0	0.000	0.000
87.5	0.000	0.000
90.0	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	181.05	N.A.	3.20
0-30	555.52	N.A.	9.70
0-40	1266.41	N.A.	22.10
0-60	3630.89	N.A.	63.40
0-80	5560.69	N.A.	97.00
0-90	5731.00	N.A.	100.00
10-90	5696.35	N.A.	99.40
20-40	1085.36	N.A.	18.90
20-50	2141.55	N.A.	37.40
40-70	3565.56	N.A.	62.20
60-80	1929.8	N.A.	33.70
70-80	728.72	N.A.	12.70
80-90	170.31	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	5731.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	34.65
10-20	146.40
20-30	374.47
30-40	710.89
40-50	1056.19
50-60	1308.29
60-70	1201.08
70-80	728.72
80-90	170.31
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

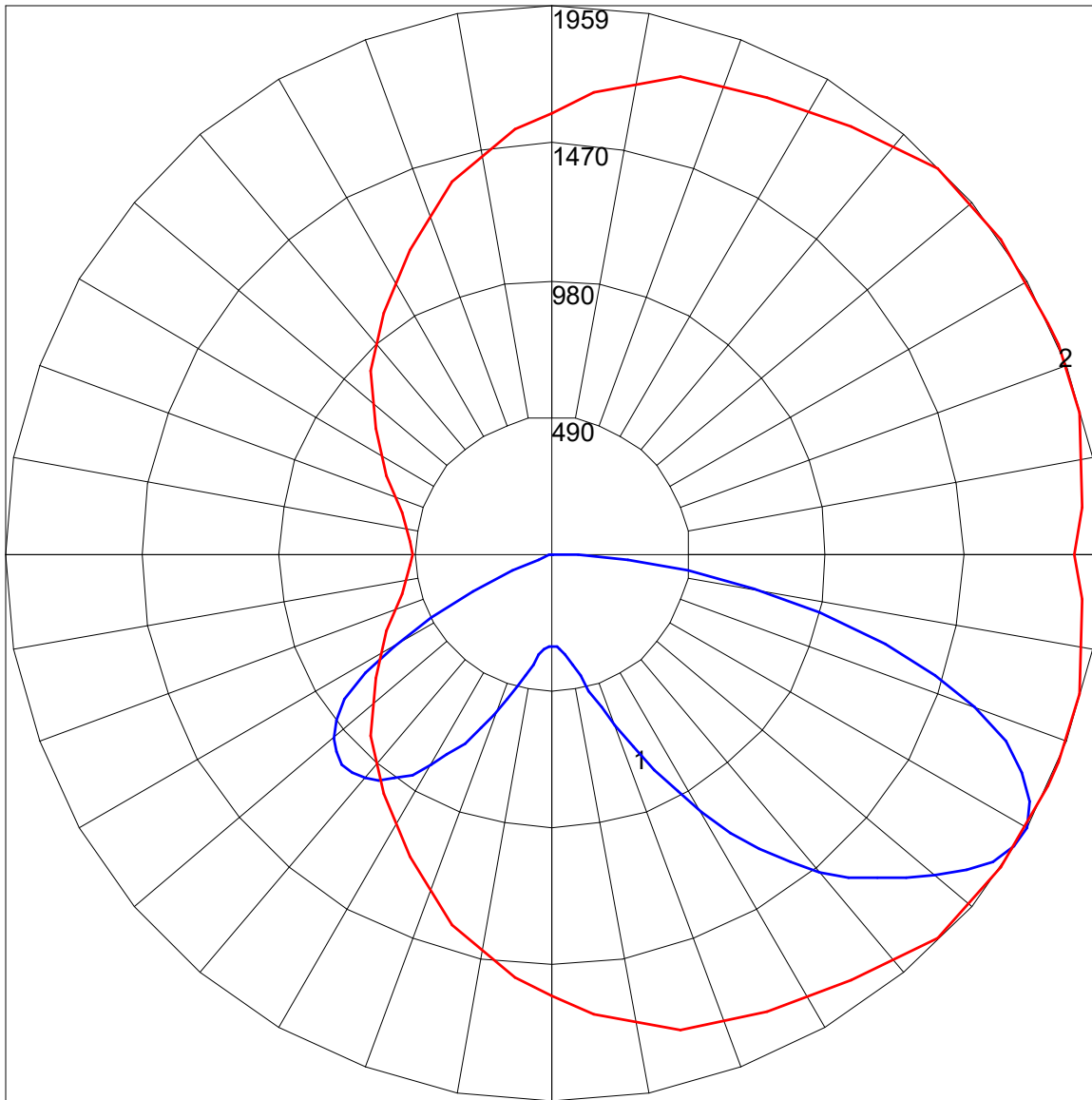
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	94	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 = 1959.436 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.)