



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-10L-T5W-40-70CRI-HSS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]LED-10594_scaled

[TESTLAB]LSI INDUSTRIES, INC

[ISSUE DATE]10/17/18

[TEST DATE]09/21/18

[MANUFACT]LSI INDUSTRIES, INC

[LUMCAT]EXN-EGLED-10L-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	6971
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	76
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	30315	29929	25911
55	42665	43649	36388
65	54934	57444	45287
75	58497	61580	43008
85	38181	39186	20765

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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	402.032	402.032	402.032	402.032	402.032	402.032	402.032	402.032	402.032	402.032
2.5	402.032	402.931	402.032	402.931	402.032	402.931	402.931	403.831	403.831	404.730
5.0	415.523	416.422	415.523	417.322	415.523	417.322	417.322	418.221	419.120	420.020
7.5	441.605	442.505	443.404	444.304	443.404	444.304	444.304	445.203	446.102	447.002
10.0	482.978	483.877	483.877	485.676	487.475	484.777	484.777	484.777	485.676	486.575
12.5	537.841	538.741	543.238	540.539	543.238	542.338	537.841	537.841	538.741	539.640
15.0	609.793	614.290	615.190	611.592	614.290	612.491	607.095	606.196	606.196	605.296
17.5	696.136	701.532	702.431	697.035	699.733	697.035	695.236	691.639	686.242	687.142
20.0	808.561	803.164	804.963	796.868	799.567	795.969	793.271	786.076	777.082	777.082
22.5	923.684	918.287	919.187	915.589	912.891	907.495	901.199	896.702	883.211	875.116
25.0	1050.499	1046.002	1045.103	1040.606	1037.908	1029.813	1019.920	1011.825	993.837	982.145
27.5	1188.107	1189.906	1178.214	1178.214	1169.220	1158.427	1148.534	1133.244	1116.155	1096.369
30.0	1328.414	1330.213	1313.124	1312.225	1303.231	1294.237	1274.450	1255.562	1233.077	1207.894
32.5	1466.022	1469.620	1456.129	1446.235	1436.342	1422.851	1401.265	1375.183	1347.301	1317.621
35.0	1592.837	1598.234	1587.441	1577.548	1572.151	1549.666	1523.584	1490.306	1457.927	1423.750
37.5	1701.665	1708.860	1707.961	1699.866	1698.967	1669.286	1639.606	1601.831	1564.057	1523.584
40.0	1799.699	1806.895	1813.190	1808.693	1808.693	1786.208	1746.635	1709.759	1664.789	1616.222
42.5	1888.740	1902.231	1906.728	1906.728	1907.627	1890.539	1853.663	1810.492	1759.226	1703.464
45.0	1981.378	1990.372	2001.165	2000.266	2002.964	1989.473	1956.195	1905.829	1850.965	1797.901
47.5	2065.022	2075.815	2095.602	2095.602	2094.703	2083.010	2057.827	2006.561	1944.503	1887.841
50.0	2145.069	2159.459	2186.441	2188.240	2182.844	2172.051	2158.560	2095.602	2034.443	1975.082
52.5	2214.323	2233.210	2268.287	2270.985	2266.488	2257.494	2244.003	2174.749	2109.992	2057.827
55.0	2261.991	2291.671	2333.044	2341.138	2336.641	2333.943	2314.156	2235.908	2166.655	2118.986
57.5	2284.476	2323.150	2375.315	2382.511	2380.712	2378.014	2359.126	2270.086	2199.033	2152.264
60.0	2277.281	2321.351	2376.215	2382.511	2383.410	2382.511	2366.321	2270.985	2197.234	2148.667
62.5	2237.707	2280.878	2335.742	2342.038	2342.937	2343.836	2327.647	2234.110	2159.459	2100.099
65.0	2145.968	2199.932	2250.299	2256.595	2261.092	2261.092	2244.003	2157.661	2075.815	2009.260
67.5	2018.254	2076.715	2120.785	2131.578	2133.377	2134.276	2114.489	2023.650	1953.497	1876.148
70.0	1846.468	1913.024	1948.100	1959.793	1959.793	1961.591	1932.811	1859.060	1783.510	1703.464
72.5	1638.707	1711.558	1738.540	1735.842	1746.635	1747.534	1721.452	1656.695	1582.944	1487.608
75.0	1399.466	1462.424	1491.205	1485.809	1496.602	1484.909	1473.217	1420.153	1349.100	1251.965
77.5	1138.640	1191.705	1183.610	1206.095	1188.107	1203.397	1193.504	1153.031	1086.475	991.139
80.0	865.223	885.010	885.010	907.495	892.205	890.406	894.004	864.323	805.862	720.419
82.5	562.125	590.906	588.208	608.894	597.202	594.503	582.811	574.717	516.256	450.599
85.0	307.595	320.186	320.186	321.985	325.583	322.885	315.689	287.808	271.619	231.146
87.5	103.431	107.029	107.928	107.029	109.727	108.827	99.833	91.739	79.147	71.952
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	402.032	402.032	402.032	402.032	402.032	402.032	402.032	402.032	402.032	402.032
2.5	404.730	404.730	404.730	404.730	403.831	403.831	402.931	402.931	402.032	402.931
5.0	420.020	420.020	420.020	420.919	420.919	420.919	420.919	420.020	420.020	420.020
7.5	448.801	448.801	447.002	447.901	447.901	447.901	447.901	447.901	447.901	447.901
10.0	489.274	489.274	487.475	487.475	487.475	486.575	487.475	489.274	487.475	487.475
12.5	541.439	541.439	541.439	538.741	536.942	536.042	539.640	539.640	540.539	537.841
15.0	606.196	606.196	605.296	601.699	599.900	598.101	600.799	599.900	601.699	601.699
17.5	681.745	679.946	679.047	673.651	671.852	671.852	670.952	668.254	669.154	670.053
20.0	768.088	764.490	762.691	756.395	750.999	750.999	749.200	744.703	744.703	746.502
22.5	863.424	858.927	855.329	849.933	840.939	833.744	831.046	827.448	825.649	826.549
25.0	966.855	960.559	954.263	943.471	935.376	926.382	916.489	911.992	909.293	908.394
27.5	1072.085	1063.990	1059.493	1043.304	1028.014	1015.423	1004.630	995.636	990.239	986.642
30.0	1183.610	1166.522	1159.327	1136.842	1117.055	1099.966	1085.576	1073.884	1067.588	1064.890

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CANDELA TABULATION - (Cont.)

32.5	1287.041	1272.651	1256.462	1226.782	1199.800	1178.214	1161.125	1149.433	1139.540	1130.546
35.0	1386.875	1367.088	1348.201	1312.225	1275.349	1246.568	1227.681	1211.492	1198.001	1186.309
37.5	1479.513	1458.827	1433.644	1387.774	1342.804	1307.728	1282.544	1263.657	1245.669	1227.681
40.0	1569.453	1538.873	1510.093	1453.430	1402.165	1359.893	1324.816	1299.633	1275.349	1253.764
42.5	1651.298	1616.222	1586.542	1512.791	1452.531	1401.265	1358.094	1323.917	1292.438	1264.556
45.0	1731.345	1693.570	1654.896	1573.950	1494.803	1433.644	1382.378	1335.609	1295.136	1262.758
47.5	1806.895	1764.623	1717.854	1629.713	1533.477	1456.129	1395.869	1332.011	1280.746	1244.770
50.0	1879.746	1831.178	1777.214	1679.180	1558.660	1466.921	1394.070	1310.426	1246.568	1203.397
52.5	1947.201	1888.740	1831.178	1715.156	1570.352	1461.525	1370.686	1269.953	1189.007	1134.143
55.0	2002.964	1929.213	1869.853	1731.345	1561.358	1430.945	1321.219	1202.498	1102.664	1024.417
57.5	2027.248	1942.704	1880.645	1721.452	1525.382	1372.484	1241.172	1089.173	973.151	879.613
60.0	2013.757	1922.917	1853.663	1677.381	1458.827	1282.544	1120.652	947.068	801.365	684.443
62.5	1957.994	1864.456	1784.410	1596.435	1361.692	1161.125	971.352	773.484	603.497	464.090
65.0	1863.557	1769.120	1680.079	1473.217	1233.077	1003.730	795.070	576.515	387.641	236.542
67.5	1727.747	1631.512	1537.974	1320.319	1058.594	821.152	606.196	378.647	192.472	53.964
70.0	1553.264	1463.324	1359.893	1133.244	879.613	638.574	423.617	214.957	67.455	0.899
72.5	1347.301	1265.456	1146.735	938.074	693.437	464.990	261.725	108.827	16.189	0.000
75.0	1108.061	1028.914	930.879	735.709	514.457	314.790	151.999	48.568	1.799	0.000
77.5	849.933	783.377	706.029	536.942	353.464	196.969	84.544	17.988	0.000	0.000
80.0	607.095	552.232	491.072	356.162	222.152	112.425	41.372	6.296	0.000	0.000
82.5	380.446	340.873	291.406	201.466	118.721	55.763	18.887	1.799	0.000	0.000
85.0	189.773	167.288	139.407	93.538	50.366	23.384	6.296	0.000	0.000	0.000
87.5	57.562	49.467	39.574	23.384	12.592	5.396	0.899	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

	<u>175.0</u>	<u>180.0</u>
0.0	402.032	402.032
2.5	402.931	402.032
5.0	420.020	420.020
7.5	447.901	447.901
10.0	486.575	486.575
12.5	536.042	536.942
15.0	597.202	597.202
17.5	669.154	665.556
20.0	744.703	741.106
22.5	827.448	826.549
25.0	908.394	907.495
27.5	988.441	987.541
30.0	1062.191	1060.393
32.5	1126.049	1123.351
35.0	1178.214	1173.717
37.5	1218.687	1213.291
40.0	1243.870	1238.474
42.5	1252.864	1246.568
45.0	1244.770	1236.675
47.5	1216.888	1205.196
50.0	1165.622	1154.830
52.5	1087.375	1075.682
55.0	973.151	959.660
57.5	817.555	803.164
60.0	620.586	605.296
62.5	380.446	379.547
65.0	143.005	140.306
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	220.22	N.A.	3.20
0-30	675.72	N.A.	9.70
0-40	1540.43	N.A.	22.10
0-60	4416.53	N.A.	63.40
0-80	6763.89	N.A.	97.00
0-90	6971.04	N.A.	100.00
10-90	6928.89	N.A.	99.40
20-40	1320.2	N.A.	18.90
20-50	2604.93	N.A.	37.40
40-70	4337.06	N.A.	62.20
60-80	2347.36	N.A.	33.70
70-80	886.40	N.A.	12.70
80-90	207.16	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	6971.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.15
10-20	178.07
20-30	455.50
30-40	864.70
40-50	1284.73
50-60	1591.37
60-70	1460.96
70-80	886.40
80-90	207.16
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

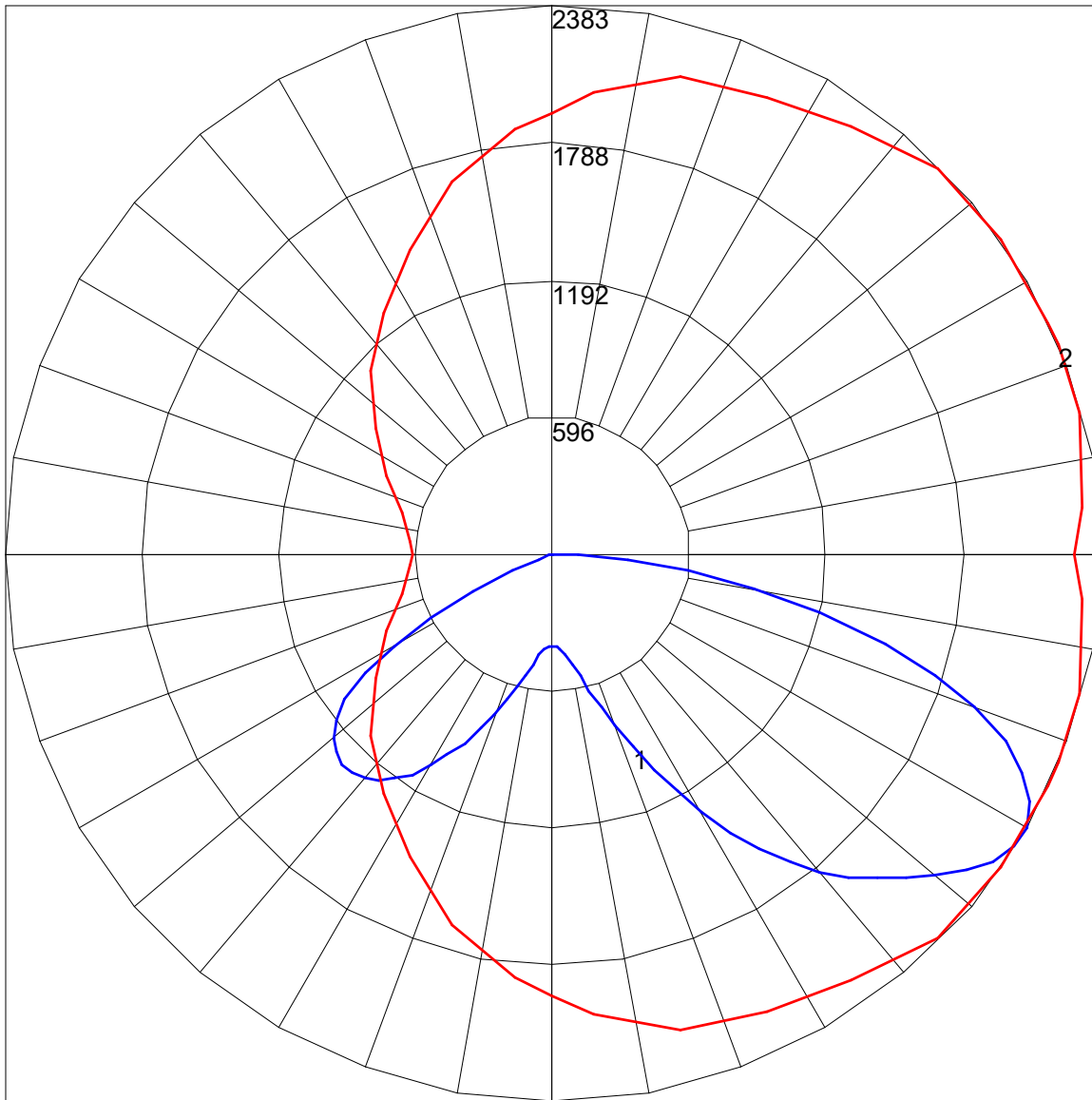
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2383.41 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.)