



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-10L-T5N-40-70CRI-HSS.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] IESNA:LM-63-2002

[TEST] LED-10659

[TESTLAB] LSI INDUSTRIES, INC

[ISSUE DATE] 11/3/18

[TEST DATE] 10/31/18

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] EXN-EGLED-10L-T5N-40-70CRI-HSS

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] SCALED FROM ORIGINAL TEST DATA

[OTHER] TEST PROCEDURE: IESNA LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7104
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	76
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	37882	36793	31134
55	44383	43508	35697
65	48918	48034	36937
75	47105	48187	33402
85	32127	32662	19142

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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	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111
2.5	1124	1125	1124	1124	1123	1124	1123	1123	1122	1121
5.0	1154	1154	1152	1152	1150	1150	1148	1144	1141	1137
7.5	1191	1193	1189	1192	1189	1185	1180	1175	1169	1161
10.0	1239	1241	1238	1239	1236	1230	1222	1215	1205	1195
12.5	1298	1299	1298	1297	1292	1286	1276	1265	1252	1238
15.0	1367	1369	1370	1366	1364	1351	1338	1324	1309	1291
17.5	1448	1453	1451	1446	1443	1430	1412	1394	1375	1353
20.0	1549	1545	1540	1535	1531	1516	1494	1472	1448	1421
22.5	1650	1645	1640	1639	1628	1610	1588	1562	1534	1502
25.0	1757	1752	1746	1744	1731	1709	1683	1653	1619	1582
27.5	1870	1864	1854	1853	1836	1810	1780	1750	1707	1663
30.0	1979	1974	1960	1957	1937	1909	1879	1840	1792	1742
32.5	2080	2075	2058	2053	2033	2000	1966	1925	1875	1815
35.0	2160	2157	2145	2140	2118	2084	2047	1999	1945	1881
37.5	2214	2213	2210	2207	2187	2157	2113	2064	2005	1935
40.0	2256	2257	2253	2252	2239	2211	2168	2116	2054	1981
42.5	2283	2284	2283	2284	2273	2248	2207	2155	2090	2011
45.0	2296	2298	2299	2299	2291	2268	2230	2178	2110	2028
47.5	2295	2297	2299	2299	2290	2270	2236	2184	2115	2030
50.0	2275	2279	2280	2280	2271	2253	2223	2173	2102	2014
52.5	2240	2242	2243	2244	2235	2218	2190	2140	2069	1980
55.0	2182	2187	2190	2190	2184	2167	2139	2086	2019	1929
57.5	2102	2113	2118	2118	2113	2097	2065	2017	1949	1861
60.0	2006	2020	2027	2024	2021	2006	1976	1928	1857	1775
62.5	1898	1903	1909	1902	1904	1890	1866	1819	1751	1663
65.0	1772	1773	1772	1771	1770	1764	1740	1693	1628	1538
67.5	1624	1619	1628	1629	1624	1613	1601	1552	1487	1401
70.0	1436	1457	1465	1470	1458	1450	1436	1399	1331	1243
72.5	1246	1283	1284	1282	1275	1270	1261	1224	1158	1079
75.0	1045	1095	1087	1085	1076	1073	1069	1033	983	903
77.5	843	888	874	870	868	867	850	836	787	711
80.0	638	660	654	642	659	649	638	630	592	524
82.5	433	443	431	430	433	444	433	427	400	345
85.0	240	240	228	237	238	240	244	238	221	190
87.5	80	71	72	73	77	80	81	86	75	66
90.0	35	35	34	33	32	31	28	23	18	15
92.5	35	35	34	34	33	31	28	20	13	7
95.0	32	33	32	31	30	30	25	19	11	6
97.5	29	29	29	28	28	26	23	16	8	4
100.0	25	25	24	24	23	22	19	14	7	3
102.5	19	19	18	18	17	17	15	10	4	2
105.0	13	12	12	12	12	12	11	7	3	1
107.5	5	5	6	6	7	8	7	4	2	1
110.0	0	0	2	2	3	3	3	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	1111	1111	1111	1111	1111	1111	1111	1111	1111	1111
2.5	1119	1117	1116	1114	1111	1108	1105	1104	1102	1101
5.0	1131	1128	1126	1120	1114	1108	1103	1099	1095	1094
7.5	1153	1149	1143	1135	1126	1116	1109	1102	1097	1094
10.0	1182	1177	1171	1158	1145	1133	1122	1114	1107	1103
12.5	1223	1215	1207	1190	1173	1159	1145	1133	1126	1119
15.0	1274	1264	1251	1230	1210	1191	1175	1162	1150	1143
17.5	1331	1319	1303	1278	1254	1232	1214	1197	1184	1173
20.0	1396	1380	1365	1333	1304	1277	1256	1237	1221	1210
22.5	1468	1449	1431	1396	1359	1331	1303	1280	1263	1250
25.0	1542	1521	1500	1458	1417	1383	1352	1325	1305	1290
27.5	1617	1594	1569	1522	1477	1435	1399	1369	1346	1329
30.0	1689	1663	1635	1581	1533	1485	1441	1407	1380	1362
32.5	1756	1726	1694	1636	1578	1524	1476	1436	1406	1385
35.0	1816	1781	1746	1680	1614	1553	1499	1455	1420	1396
37.5	1863	1825	1788	1712	1638	1569	1510	1458	1419	1391
40.0	1900	1858	1816	1732	1649	1573	1505	1447	1402	1369
42.5	1926	1880	1833	1739	1647	1562	1485	1417	1366	1330
45.0	1937	1887	1836	1732	1631	1535	1449	1371	1310	1271
47.5	1931	1879	1824	1711	1599	1492	1393	1308	1239	1190
50.0	1909	1854	1794	1675	1551	1434	1321	1224	1146	1092
52.5	1871	1813	1748	1618	1485	1353	1232	1121	1033	973
55.0	1817	1755	1687	1547	1397	1259	1125	1004	905	835
57.5	1746	1680	1610	1456	1300	1143	1003	871	761	681
60.0	1656	1585	1509	1353	1187	1018	868	724	603	515
62.5	1543	1469	1397	1235	1060	884	714	561	433	336
65.0	1419	1338	1272	1105	923	741	565	400	268	177
67.5	1275	1204	1134	967	781	596	415	262	137	54
70.0	1125	1058	978	823	639	457	288	149	51	3
72.5	962	902	824	668	502	327	184	74	14	0
75.0	793	741	665	522	362	218	107	33	3	0
77.5	623	579	503	377	252	139	55	14	1	0
80.0	449	416	360	257	162	80	27	5	0	0

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CANDELA TABULATION - (Cont.)

82.5	297	265	232	158	93	41	12	2	0	0
85.0	157	143	125	82	45	18	4	1	0	0
87.5	56	49	41	29	14	5	1	0	0	0
90.0	10	7	5	3	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
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1111	1111
2.5	1099	1100
5.0	1093	1092
7.5	1092	1092
10.0	1100	1099
12.5	1116	1116
15.0	1138	1138
17.5	1168	1168
20.0	1204	1202
22.5	1243	1241
25.0	1282	1280
27.5	1320	1321

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30.0	1352	1353
32.5	1374	1374
35.0	1383	1381
37.5	1375	1374
40.0	1352	1350
42.5	1311	1309
45.0	1250	1248
47.5	1170	1166
50.0	1063	1065
52.5	940	930
55.0	798	787
57.5	639	626
60.0	459	454
62.5	284	278
65.0	122	115
67.5	7	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	470.25	N.A.	6.60
0-30	1177.13	N.A.	16.60
0-40	2287.56	N.A.	32.20
0-60	5142.28	N.A.	72.40
0-80	6923.19	N.A.	97.50
0-90	7081.94	N.A.	99.70
10-90	6972.99	N.A.	98.20
20-40	1817.31	N.A.	25.60
20-50	3227.67	N.A.	45.40
40-70	3989.88	N.A.	56.20
60-80	1780.91	N.A.	25.10
70-80	645.75	N.A.	9.10
80-90	158.75	N.A.	2.20
90-110	16.73	N.A.	0.20
90-120	18.23	N.A.	0.30
90-130	19.60	N.A.	0.30
90-150	21.30	N.A.	0.30
90-180	22.07	N.A.	0.30
110-180	5.34	N.A.	0.10
0-180	7104.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	108.95
10-20	361.30
20-30	706.88
30-40	1110.43
40-50	1410.36
50-60	1444.36
60-70	1135.15
70-80	645.75
80-90	158.75
90-100	11.61
100-110	5.12
110-120	1.50
120-130	1.37
130-140	1.05
140-150	0.65
150-160	0.45
160-170	0.25
170-180	0.08

IES INDOOR REPORT

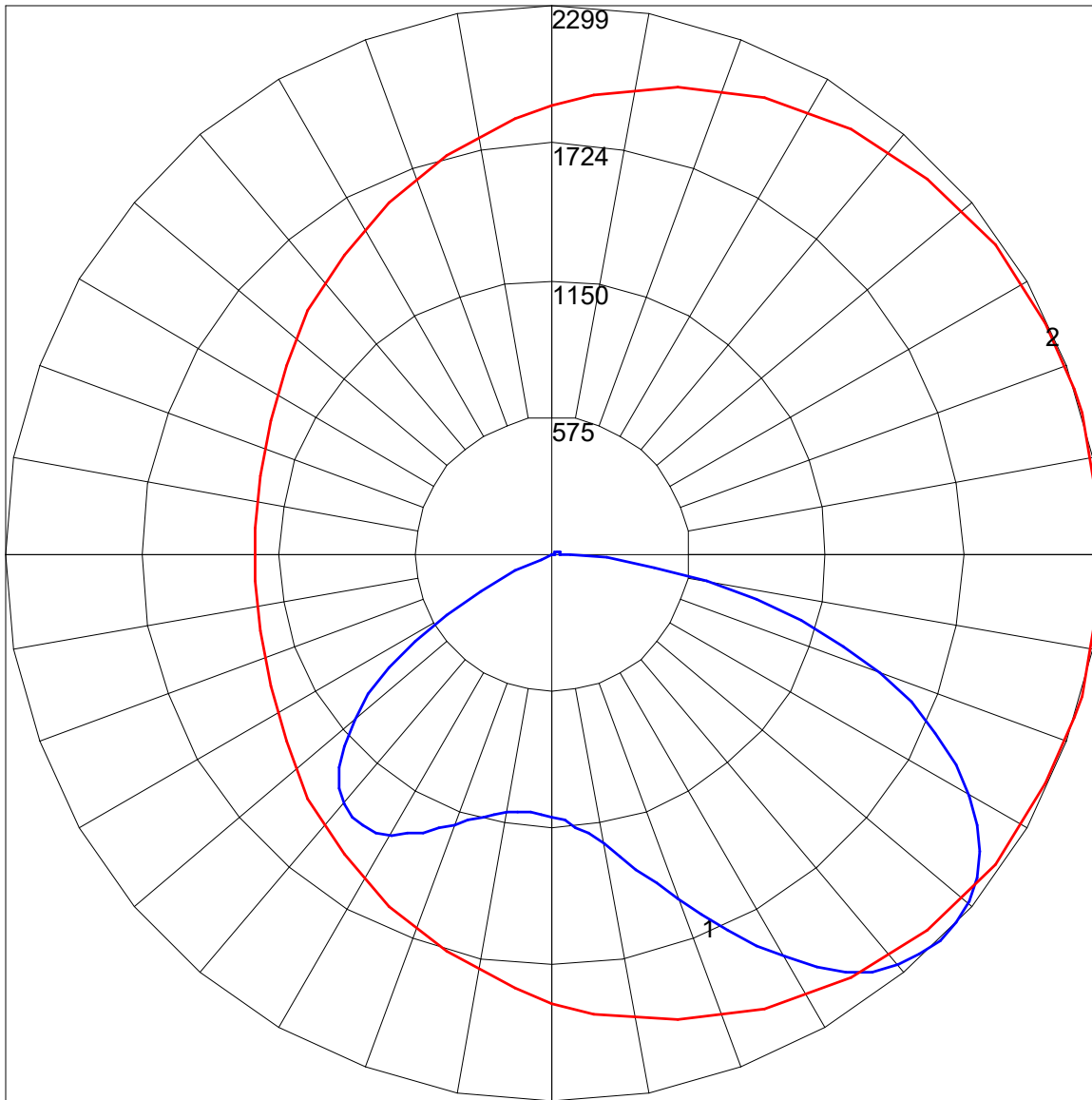
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2299 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.)