



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-08L-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-08L-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	5484
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	60
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	29253	28412	24023
55	34253	33582	27561
65	37737	37075	28517
75	36377	37188	25784
85	24898	25166	14725

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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	858	858	858	858	858	858	858	858	858	858
2.5	868	868	868	868	867	868	867	867	866	865
5.0	891	891	889	889	888	888	886	883	881	877
7.5	919	921	918	920	918	915	911	907	902	896
10.0	957	958	956	957	954	949	943	938	930	923
12.5	1002	1003	1002	1001	998	992	985	976	966	956
15.0	1055	1057	1058	1055	1053	1043	1033	1022	1010	996
17.5	1118	1122	1120	1116	1114	1104	1090	1076	1061	1044
20.0	1196	1192	1189	1185	1182	1170	1153	1136	1118	1097
22.5	1273	1270	1266	1266	1257	1243	1226	1206	1184	1159
25.0	1356	1352	1348	1347	1336	1319	1300	1276	1250	1221
27.5	1443	1439	1432	1430	1417	1398	1374	1351	1318	1284
30.0	1528	1524	1513	1511	1496	1473	1450	1420	1383	1345
32.5	1606	1602	1589	1585	1569	1544	1518	1486	1447	1401
35.0	1667	1665	1656	1652	1635	1609	1580	1543	1501	1452
37.5	1709	1709	1706	1704	1688	1665	1631	1593	1548	1494
40.0	1741	1742	1739	1739	1728	1707	1673	1633	1586	1529
42.5	1762	1763	1762	1763	1755	1735	1703	1663	1613	1552
45.0	1773	1774	1775	1775	1769	1751	1722	1681	1629	1565
47.5	1771	1773	1775	1775	1768	1752	1726	1686	1633	1567
50.0	1756	1759	1760	1760	1753	1739	1716	1677	1622	1554
52.5	1729	1731	1731	1732	1726	1712	1690	1652	1597	1528
55.0	1684	1688	1690	1691	1686	1673	1651	1611	1558	1489
57.5	1623	1631	1635	1635	1631	1619	1594	1557	1505	1437
60.0	1548	1560	1565	1562	1560	1548	1525	1488	1433	1370
62.5	1465	1469	1474	1468	1470	1459	1441	1404	1352	1284
65.0	1367	1369	1368	1367	1366	1362	1343	1307	1256	1187
67.5	1254	1250	1256	1258	1254	1245	1236	1198	1148	1081
70.0	1109	1124	1131	1135	1126	1119	1109	1080	1028	959
72.5	962	990	991	990	984	980	974	945	894	833
75.0	807	845	839	838	830	828	825	797	759	697
77.5	651	685	675	672	670	669	656	646	608	549
80.0	493	510	505	495	508	501	493	486	457	404
82.5	335	342	333	332	334	342	334	329	308	267
85.0	186	186	176	183	184	186	188	184	171	146
87.5	61	55	56	56	59	61	63	67	58	51
90.0	27	27	26	25	25	24	22	18	14	12
92.5	27	27	26	26	25	24	22	16	10	5
95.0	25	25	25	24	24	23	20	14	8	5
97.5	22	22	22	22	22	20	18	12	7	3
100.0	19	19	18	18	18	17	15	10	5	2
102.5	14	14	14	14	13	13	12	8	3	1
105.0	10	9	9	9	9	9	8	5	2	1
107.5	4	4	5	5	5	6	5	3	1	1
110.0	0	0	1	1	3	3	3	2	1	1
112.5	0	0	0	0	1	1	1	1	1	1
115.0	0	0	0	0	1	1	1	1	1	1
117.5	0	0	0	0	1	1	1	1	1	1
120.0	0	0	0	0	1	1	1	1	1	1
122.5	0	0	0	0	1	1	1	1	1	1
125.0	0	0	1	1	1	1	1	1	1	1
127.5	0	1	1	1	1	1	1	1	1	1
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	1
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	858	858	858	858	858	858	858	858	858	858
2.5	864	862	862	860	858	855	853	852	851	850
5.0	873	871	869	864	860	855	851	848	845	844
7.5	890	887	883	876	869	862	856	851	847	845
10.0	913	909	904	894	884	875	866	860	855	851
12.5	944	938	932	919	906	894	884	875	869	864
15.0	983	975	966	949	934	919	907	897	888	882
17.5	1028	1018	1006	987	968	951	937	924	914	906
20.0	1077	1066	1054	1029	1007	986	970	955	942	934
22.5	1133	1119	1105	1077	1049	1027	1006	988	975	965
25.0	1190	1174	1158	1126	1094	1068	1043	1023	1007	996
27.5	1249	1230	1211	1175	1140	1108	1080	1056	1039	1026
30.0	1304	1284	1262	1220	1183	1147	1113	1086	1066	1051
32.5	1356	1332	1308	1263	1218	1177	1139	1109	1085	1069
35.0	1401	1375	1348	1297	1246	1199	1157	1123	1096	1077
37.5	1438	1409	1380	1322	1264	1211	1166	1126	1095	1073
40.0	1467	1434	1402	1337	1273	1214	1162	1117	1082	1057
42.5	1487	1451	1415	1343	1271	1205	1147	1094	1055	1026
45.0	1495	1456	1417	1337	1259	1185	1119	1058	1011	981
47.5	1490	1450	1408	1321	1234	1152	1075	1009	957	919
50.0	1473	1432	1385	1293	1197	1107	1020	945	885	843
52.5	1444	1399	1349	1249	1147	1045	951	866	798	751
55.0	1403	1355	1302	1194	1078	972	868	775	698	644
57.5	1348	1297	1243	1124	1004	882	774	672	587	525
60.0	1279	1224	1165	1044	916	786	670	559	466	397
62.5	1191	1134	1078	953	818	682	551	433	334	259
65.0	1095	1033	982	853	713	572	436	309	207	137
67.5	984	929	876	746	603	460	320	202	106	42
70.0	868	817	755	635	493	353	222	115	39	3
72.5	743	696	636	516	387	252	142	57	11	0
75.0	612	572	514	403	280	169	83	25	3	0
77.5	481	447	388	291	195	107	42	10	1	0
80.0	347	321	278	199	125	62	21	4	0	0

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CANDELA TABULATION - (Cont.)

82.5	229	205	179	122	72	32	9	1	0	0
85.0	122	110	97	63	35	14	3	1	0	0
87.5	43	38	31	22	11	4	1	0	0	0
90.0	8	5	4	3	1	1	1	0	0	0
92.5	1	1	1	1	1	1	1	1	0	0
95.0	1	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	1	1	1	1	1	1	1
102.5	1	1	1	1	1	1	1	1	1	1
105.0	1	1	1	1	1	1	1	1	1	1
107.5	1	1	1	1	1	1	1	1	1	1
110.0	1	1	1	1	1	1	1	1	1	1
112.5	1	1	1	1	1	1	1	1	1	1
115.0	1	1	1	1	1	1	1	1	1	1
117.5	1	1	1	1	1	1	1	1	1	1
120.0	1	1	1	1	1	1	1	1	1	1
122.5	1	1	1	1	1	1	1	1	1	1
125.0	1	1	1	1	1	1	1	1	1	1
127.5	1	1	1	1	1	1	1	1	1	1
130.0	1	1	1	1	1	1	1	1	1	1
132.5	1	1	1	1	1	1	1	1	1	1
135.0	1	1	1	1	1	1	1	1	1	1
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	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	858	858
2.5	849	849
5.0	843	843
7.5	843	843
10.0	849	849
12.5	861	861
15.0	879	879
17.5	902	902
20.0	930	928
22.5	960	958
25.0	990	988
27.5	1019	1020

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**CANDELA TABULATION - (Cont.)**

30.0	1043	1044
32.5	1060	1060
35.0	1068	1066
37.5	1062	1060
40.0	1043	1042
42.5	1012	1010
45.0	965	963
47.5	903	900
50.0	821	822
52.5	726	718
55.0	616	608
57.5	493	483
60.0	354	350
62.5	220	215
65.0	94	89
67.5	5	2
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	1	1
115.0	1	1
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	1	1
130.0	1	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.)**

<b>170.0</b>	0	0
<b>172.5</b>	0	0
<b>175.0</b>	0	0
<b>177.5</b>	0	0
<b>180.0</b>	1	1

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	363.01	N.A.	6.60
0-30	908.69	N.A.	16.60
0-40	1765.87	N.A.	32.20
0-60	3969.47	N.A.	72.40
0-80	5344.21	N.A.	97.50
0-90	5466.79	N.A.	99.70
10-90	5382.68	N.A.	98.20
20-40	1402.86	N.A.	25.60
20-50	2491.53	N.A.	45.40
40-70	3079.84	N.A.	56.20
60-80	1374.74	N.A.	25.10
70-80	498.50	N.A.	9.10
80-90	122.58	N.A.	2.20
90-110	12.89	N.A.	0.20
90-120	13.82	N.A.	0.30
90-130	14.66	N.A.	0.30
90-150	16.06	N.A.	0.30
90-180	16.83	N.A.	0.30
110-180	3.94	N.A.	0.10
0-180	5483.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	84.11
10-20	278.90
20-30	545.68
30-40	857.17
40-50	1088.68
50-60	1114.92
60-70	876.24
70-80	498.50
80-90	122.58
90-100	9.06
100-110	3.83
110-120	0.93
120-130	0.84
130-140	0.77
140-150	0.63
150-160	0.45
160-170	0.25
170-180	0.08

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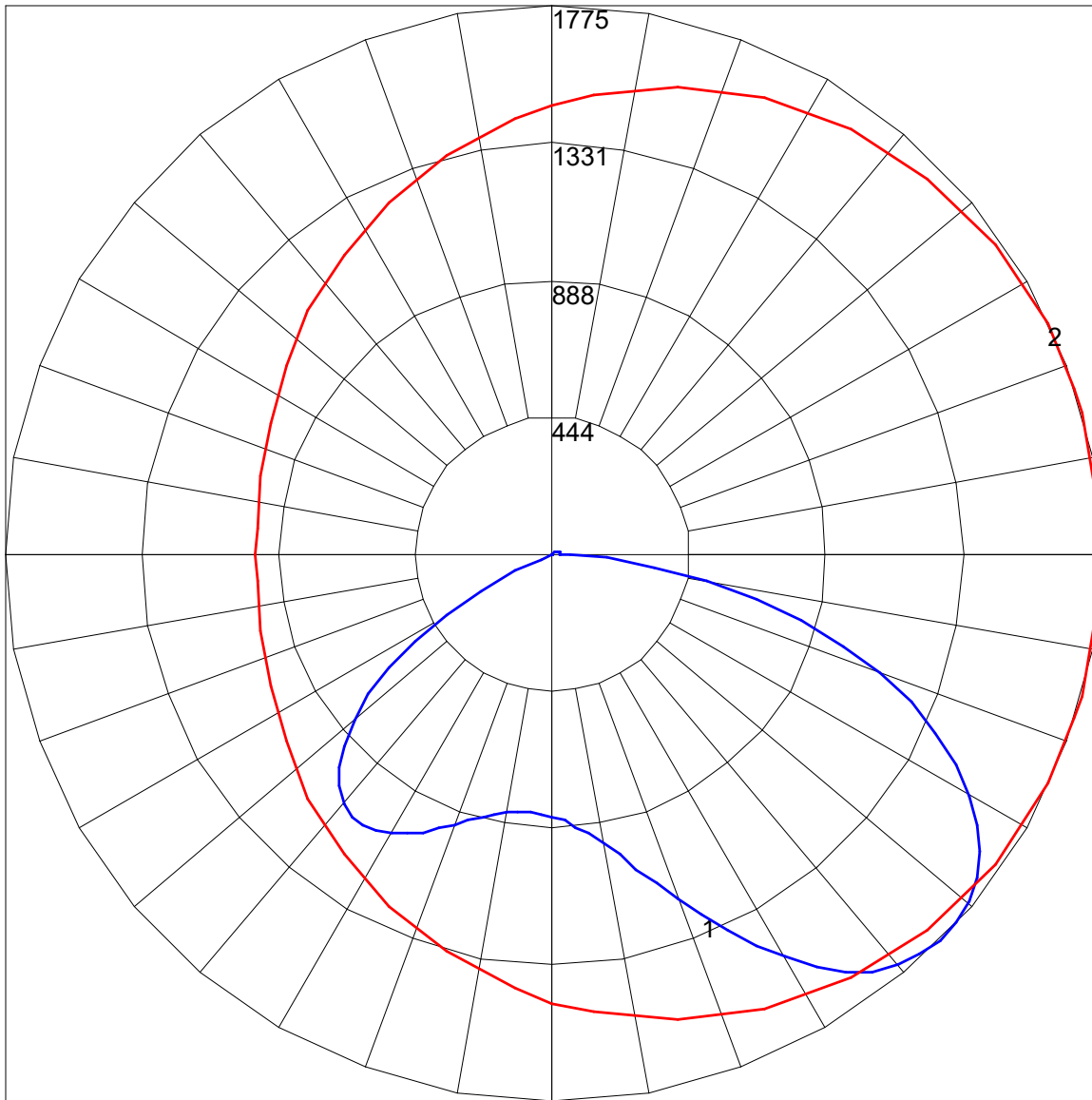
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1775 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.)