



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-06L-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-06L-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	4444
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	44
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	23693	23016	19469
55	27765	27215	22334
65	30587	30063	23106
75	29480	30156	20871
85	20079	20347	11914

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EXN-EGLED-06L-T5N-40-70CRI-HSS.IES

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	695	695	695	695	695	695	695	695	695	695
2.5	703	704	703	703	703	703	703	703	702	701
5.0	722	722	721	721	719	719	718	716	714	711
7.5	745	746	744	745	744	741	738	735	731	726
10.0	775	776	775	775	773	769	765	760	754	748
12.5	812	813	812	811	808	804	798	791	783	775
15.0	855	857	857	855	853	845	837	828	819	807
17.5	906	909	907	904	903	895	883	872	860	846
20.0	969	966	964	960	958	948	934	921	906	889
22.5	1032	1029	1026	1026	1019	1007	993	977	959	939
25.0	1099	1096	1092	1091	1083	1069	1053	1034	1013	990
27.5	1170	1166	1160	1159	1148	1132	1113	1095	1068	1040
30.0	1238	1235	1226	1224	1212	1194	1175	1151	1121	1090
32.5	1301	1298	1288	1284	1272	1251	1230	1204	1173	1135
35.0	1351	1350	1342	1338	1325	1303	1280	1251	1217	1176
37.5	1385	1384	1382	1381	1368	1349	1322	1291	1254	1210
40.0	1411	1411	1409	1409	1400	1383	1356	1324	1285	1239
42.5	1428	1428	1428	1428	1422	1406	1380	1348	1307	1258
45.0	1436	1437	1438	1438	1433	1419	1395	1362	1320	1269
47.5	1435	1437	1438	1438	1433	1420	1399	1366	1323	1270
50.0	1423	1425	1426	1426	1420	1409	1390	1359	1315	1260
52.5	1401	1402	1403	1404	1398	1387	1370	1338	1294	1238
55.0	1365	1368	1370	1370	1366	1355	1338	1305	1263	1207
57.5	1315	1322	1325	1325	1322	1312	1292	1262	1219	1164
60.0	1255	1264	1268	1266	1264	1255	1236	1206	1162	1110
62.5	1187	1190	1194	1190	1191	1182	1167	1138	1095	1040
65.0	1108	1109	1109	1108	1107	1103	1089	1059	1018	962
67.5	1016	1013	1018	1019	1016	1009	1001	971	930	876
70.0	898	911	916	920	912	907	898	875	833	777
72.5	779	803	803	802	797	794	789	766	724	675
75.0	654	685	680	679	673	671	669	646	615	565
77.5	527	555	547	544	543	542	532	523	492	445
80.0	399	413	409	401	412	406	399	394	371	328
82.5	271	277	269	269	271	277	271	267	250	216
85.0	150	150	142	148	149	150	152	149	138	119
87.5	50	44	45	46	48	50	51	54	47	41
90.0	22	22	21	21	20	20	17	14	11	10
92.5	22	22	21	21	21	20	17	13	8	4
95.0	20	21	20	20	19	19	16	12	7	4
97.5	18	18	18	17	17	16	14	10	5	3
100.0	15	15	15	15	14	14	12	8	4	2
102.5	12	12	11	11	11	11	10	6	3	1
105.0	8	7	7	7	7	7	7	4	2	1
107.5	3	3	4	4	4	5	4	3	1	1
110.0	0	0	1	1	2	2	2	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EXN-EGLED-06L-T5N-40-70CRI-HSS.IES

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	695	695	695	695	695	695	695	695	695	695
2.5	700	699	698	697	695	693	691	690	689	689
5.0	707	706	704	700	697	693	690	687	685	684
7.5	721	718	715	710	704	698	694	689	686	685
10.0	740	736	732	724	716	709	702	697	692	690
12.5	765	760	755	744	734	725	716	709	704	700
15.0	797	790	783	769	757	745	735	727	719	715
17.5	833	825	815	799	784	770	759	749	741	734
20.0	873	864	854	834	816	799	786	774	763	757
22.5	918	906	895	873	850	832	815	801	790	782
25.0	965	951	938	912	886	865	846	829	816	807
27.5	1012	997	982	952	924	898	875	856	842	831
30.0	1057	1040	1023	989	959	929	902	880	864	852
32.5	1099	1080	1060	1023	987	954	923	898	879	866
35.0	1136	1114	1092	1051	1010	972	938	910	888	873
37.5	1165	1141	1118	1071	1024	982	945	912	887	870
40.0	1189	1162	1136	1083	1031	984	941	905	877	857
42.5	1205	1176	1147	1088	1030	977	929	886	855	832
45.0	1211	1180	1148	1083	1020	960	906	858	820	795
47.5	1208	1175	1141	1071	1000	933	871	818	775	744
50.0	1194	1160	1122	1048	970	897	826	766	717	683
52.5	1170	1134	1093	1012	929	847	770	701	646	608
55.0	1137	1098	1055	968	874	787	704	628	566	522
57.5	1092	1051	1007	911	813	715	627	545	476	426
60.0	1036	992	944	846	742	637	543	453	377	322
62.5	965	919	874	772	663	553	447	351	271	210
65.0	887	837	796	691	578	463	353	250	168	111
67.5	797	753	709	605	489	373	259	164	86	34
70.0	704	662	612	515	400	286	180	93	32	2
72.5	602	564	515	418	314	204	115	46	9	0
75.0	496	463	416	327	227	137	67	21	2	0
77.5	390	362	314	236	158	87	34	8	1	0
80.0	281	260	225	161	101	50	17	3	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EXN-EGLED-06L-T5N-40-70CRI-HSS.IES

CANDELA TABULATION - (Cont.)

82.5	186	166	145	99	58	26	7	1	0	0
85.0	98	89	78	51	28	11	3	1	0	0
87.5	35	31	25	18	9	3	1	0	0	0
90.0	6	4	3	2	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	695	695
2.5	688	688
5.0	683	683
7.5	683	683
10.0	688	688
12.5	698	698
15.0	712	712
17.5	731	731
20.0	753	752
22.5	778	776
25.0	802	801
27.5	826	826

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EXN-EGLED-06L-T5N-40-70CRI-HSS.IES

CANDELA TABULATION - (Cont.)

30.0	846	846
32.5	859	859
35.0	865	864
37.5	860	859
40.0	846	844
42.5	820	819
45.0	782	780
47.5	732	730
50.0	665	666
52.5	588	582
55.0	499	492
57.5	400	392
60.0	287	284
62.5	178	174
65.0	76	72
67.5	4	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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-06L-T5N-40-70CRI-HSS.IES

CANDELA TABULATION - (Cont.)

170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	1	1

IES INDOOR REPORT
PHOTOMETRIC FILENAME : EXN-EGLED-06L-T5N-40-70CRI-HSS.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	294.15	N.A.	6.60
0-30	736.32	N.A.	16.60
0-40	1430.91	N.A.	32.20
0-60	3216.53	N.A.	72.40
0-80	4330.51	N.A.	97.40
0-90	4429.78	N.A.	99.70
10-90	4361.63	N.A.	98.10
20-40	1136.77	N.A.	25.60
20-50	2018.94	N.A.	45.40
40-70	2495.66	N.A.	56.20
60-80	1113.98	N.A.	25.10
70-80	403.94	N.A.	9.10
80-90	99.27	N.A.	2.20
90-110	10.66	N.A.	0.20
90-120	11.57	N.A.	0.30
90-130	12.41	N.A.	0.30
90-150	13.81	N.A.	0.30
90-180	14.58	N.A.	0.30
110-180	3.92	N.A.	0.10
0-180	4444.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.15
10-20	226.00
20-30	442.18
30-40	694.59
40-50	882.18
50-60	903.44
60-70	710.04
70-80	403.94
80-90	99.27
90-100	7.41
100-110	3.25
110-120	0.91
120-130	0.84
130-140	0.77
140-150	0.63
150-160	0.45
160-170	0.25
170-180	0.08

IES INDOOR REPORT

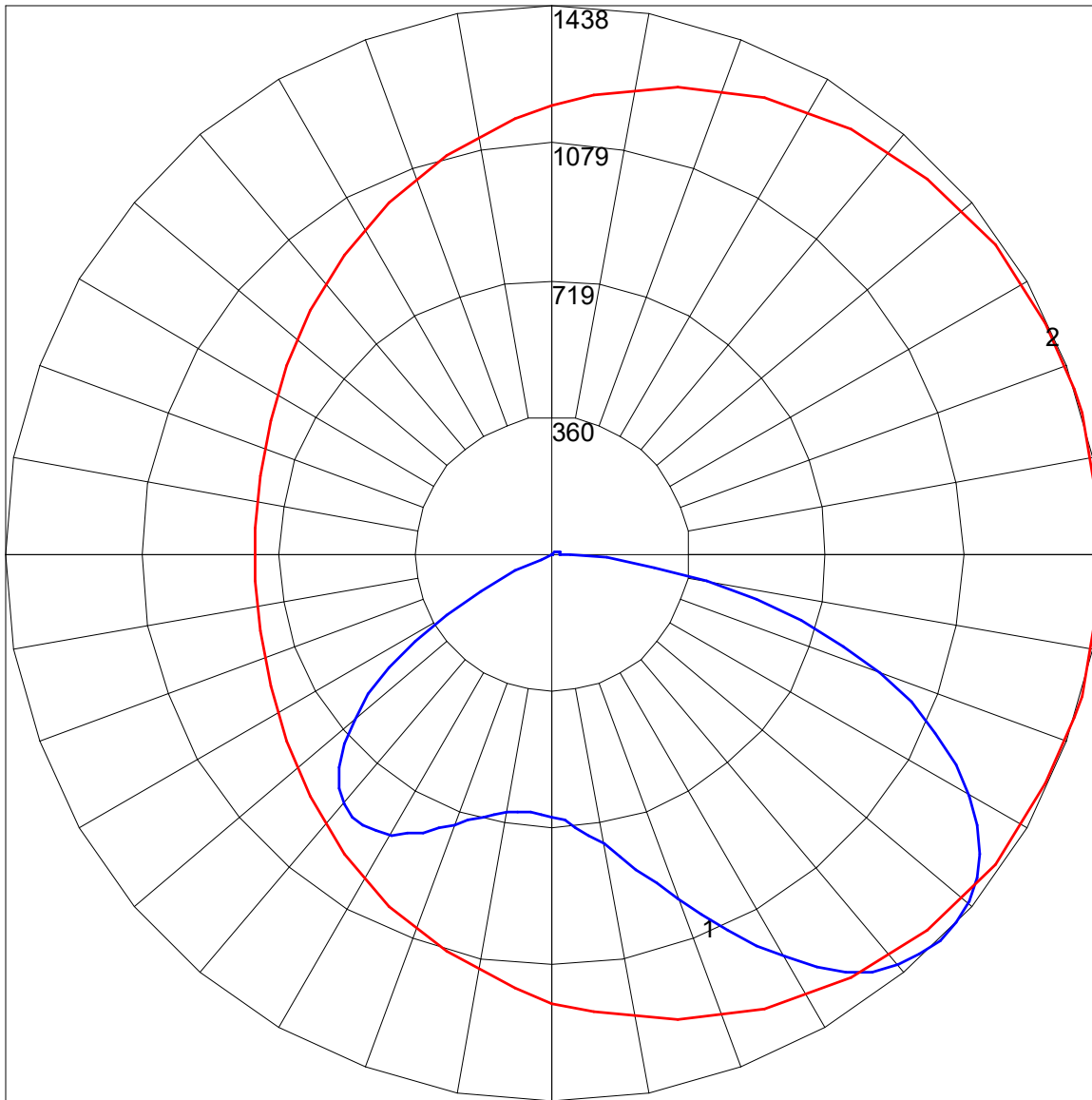
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1438 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.)