



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-03L-T5N-40-70CRI-HSS.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST] IESNA:LM-63-2002

[TEST] LED-10659

[TESTLAB] LSI INDUSTRIES, INC

[ISSUEDATE] 11/3/18

[TESTDATE] 10/31/18

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] EXN-EGLED-03L-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	2228
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	22
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	11879	11549	9768
55	13913	13648	11208
65	15349	15073	11594
75	14785	15101	10458
85	10040	10173	6024

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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	349	349	349	349	349	349	349	349	349	349
2.5	353	353	353	353	352	353	352	352	352	352
5.0	362	362	361	361	361	361	360	359	358	357
7.5	374	374	373	374	373	372	370	369	367	364
10.0	389	389	388	389	388	386	383	381	378	375
12.5	407	408	407	407	405	403	400	397	393	388
15.0	429	430	430	429	428	424	420	415	410	405
17.5	454	456	455	453	453	449	443	437	431	424
20.0	486	485	483	482	480	475	469	462	454	446
22.5	517	516	515	514	511	505	498	490	481	471
25.0	551	550	548	547	543	536	528	519	508	496
27.5	586	585	582	581	576	568	558	549	535	522
30.0	621	619	615	614	608	599	589	577	562	546
32.5	653	651	646	644	638	627	617	604	588	569
35.0	678	677	673	671	664	654	642	627	610	590
37.5	695	694	693	692	686	676	663	647	629	607
40.0	708	708	707	706	702	693	680	664	644	621
42.5	716	716	716	716	713	705	692	676	655	631
45.0	720	721	721	721	719	712	700	683	662	636
47.5	720	721	721	721	718	712	701	685	663	637
50.0	714	715	715	715	712	707	697	682	659	632
52.5	702	703	704	704	701	696	687	671	649	621
55.0	684	686	687	687	685	680	671	654	633	605
57.5	659	663	664	664	663	658	648	633	611	584
60.0	629	634	636	635	634	629	620	605	582	557
62.5	595	597	599	597	597	593	585	571	549	522
65.0	556	556	556	555	555	553	546	531	511	482
67.5	509	508	511	511	509	506	502	487	466	439
70.0	451	457	460	461	457	455	451	439	418	390
72.5	391	402	403	402	400	398	396	384	363	339
75.0	328	344	341	340	337	337	335	324	308	283
77.5	264	279	274	273	272	272	267	262	247	223
80.0	200	207	205	201	207	204	200	198	186	164
82.5	136	139	135	135	136	139	136	134	125	108
85.0	75	75	71	74	75	75	76	75	69	59
87.5	25	22	23	23	24	25	25	27	24	21
90.0	11	11	11	10	10	10	9	7	6	5
92.5	11	11	11	11	10	10	9	6	4	2
95.0	10	10	10	10	10	9	8	6	3	2
97.5	9	9	9	9	9	8	7	5	3	1
100.0	8	8	7	7	7	7	6	4	2	1
102.5	6	6	6	6	5	5	5	3	1	1
105.0	4	4	4	4	4	4	3	2	1	0
107.5	2	2	2	2	2	2	2	1	1	0
110.0	0	0	1	1	1	1	1	1	0	0
112.5	0	0	0	0	0	1	1	1	0	0
115.0	0	0	0	0	0	0	0	0	0	1
117.5	0	0	0	0	0	0	0	0	0	0
120.0	0	0	0	0	0	0	0	0	0	1
122.5	0	0	0	0	0	0	0	0	0	1
125.0	0	0	0	0	0	0	0	0	0	1
127.5	0	0	0	0	0	0	0	0	0	1
130.0	0	0	0	0	0	0	0	0	0	0
132.5	0	0	0	0	0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

135.0	0	0	0	0	0	0	0	0	0	1
137.5	0	0	0	0	0	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	349	349	349	349	349	349	349	349	349	349
2.5	351	350	350	349	349	348	347	346	346	345
5.0	355	354	353	351	349	348	346	345	344	343
7.5	362	360	359	356	353	350	348	346	344	343
10.0	371	369	367	363	359	355	352	349	347	346
12.5	384	381	379	373	368	363	359	355	353	351
15.0	400	396	392	386	379	374	369	365	361	358
17.5	418	414	409	401	393	386	381	375	371	368
20.0	438	433	428	418	409	401	394	388	383	380
22.5	460	455	449	438	426	417	409	401	396	392
25.0	484	477	470	457	444	434	424	416	409	405
27.5	507	500	492	477	463	450	439	429	422	417
30.0	530	522	513	496	481	466	452	441	433	427
32.5	551	541	532	513	495	478	463	451	441	434
35.0	569	559	548	527	506	487	470	456	445	438
37.5	584	572	561	537	514	492	474	457	445	436
40.0	596	583	570	543	517	493	472	454	440	430
42.5	604	590	575	546	517	490	466	444	429	417
45.0	607	592	576	543	512	481	455	430	411	399
47.5	606	589	572	537	502	468	437	410	389	373
50.0	599	582	563	525	486	450	414	384	359	342
52.5	587	569	548	508	466	425	386	352	324	305
55.0	570	551	529	485	438	395	353	315	284	262
57.5	548	527	505	457	408	358	315	273	239	213
60.0	520	497	473	424	372	319	272	227	189	161
62.5	484	461	438	387	332	277	224	176	136	105
65.0	445	420	399	347	290	232	177	126	84	55
67.5	400	378	356	303	245	187	130	82	43	17
70.0	353	332	307	258	200	143	90	47	16	1
72.5	302	283	258	209	157	102	58	23	5	0
75.0	249	232	209	164	114	68	34	10	1	0
77.5	195	182	158	118	79	44	17	4	0	0
80.0	141	130	113	81	51	25	8	2	0	0

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CANDELA TABULATION - (Cont.)

82.5	93	83	73	50	29	13	4	1	0	0
85.0	49	45	39	26	14	6	1	0	0	0
87.5	18	15	13	9	5	2	0	0	0	0
90.0	3	2	2	1	0	0	0	0	0	0
92.5	1	0	0	0	0	0	0	0	0	0
95.0	1	0	0	0	0	0	0	0	0	0
97.5	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	1	0	0	0	0	0	0
102.5	0	0	0	1	1	1	0	0	0	0
105.0	1	1	1	1	1	1	1	0	0	0
107.5	0	1	1	1	1	1	1	0	0	0
110.0	1	1	1	1	1	1	1	0	0	0
112.5	1	1	1	1	1	1	1	1	1	0
115.0	1	1	1	1	1	1	1	1	1	0
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	0	0	1
132.5	1	1	1	1	1	1	1	0	1	0
135.0	1	1	1	1	1	1	1	0	0	0
137.5	1	1	0	1	1	1	1	0	0	0
140.0	0	1	0	1	1	1	1	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	349	349
2.5	345	345
5.0	343	342
7.5	342	342
10.0	345	345
12.5	350	350
15.0	357	357
17.5	366	366
20.0	378	377
22.5	390	389
25.0	402	401
27.5	414	414

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CANDELA TABULATION - (Cont.)

30.0	424	424
32.5	431	431
35.0	434	433
37.5	431	431
40.0	424	423
42.5	411	410
45.0	392	391
47.5	367	366
50.0	333	334
52.5	295	292
55.0	250	247
57.5	200	196
60.0	144	142
62.5	89	87
65.0	38	36
67.5	2	1
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	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	0	0
112.5	1	1
115.0	1	0
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	1	1
130.0	1	0
132.5	0	0
135.0	0	0
137.5	0	0
140.0	0	0
142.5	0	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
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	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	147.50	N.A.	6.60
0-30	369.22	N.A.	16.60
0-40	717.51	N.A.	32.20
0-60	1612.94	N.A.	72.40
0-80	2171.52	N.A.	97.50
0-90	2221.31	N.A.	99.70
10-90	2187.13	N.A.	98.20
20-40	570.01	N.A.	25.60
20-50	1012.39	N.A.	45.40
40-70	1251.45	N.A.	56.20
60-80	558.58	N.A.	25.10
70-80	202.55	N.A.	9.10
80-90	49.80	N.A.	2.20
90-110	5.11	N.A.	0.20
90-120	5.70	N.A.	0.30
90-130	6.23	N.A.	0.30
90-150	6.52	N.A.	0.30
90-180	6.52	N.A.	0.30
110-180	1.42	N.A.	0.10
0-180	2227.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	34.18
10-20	113.33
20-30	221.72
30-40	348.29
40-50	442.38
50-60	453.05
60-70	356.02
70-80	202.55
80-90	49.80
90-100	3.52
100-110	1.58
110-120	0.59
120-130	0.53
130-140	0.27
140-150	0.02
150-160	0.00
160-170	0.00
170-180	0.00

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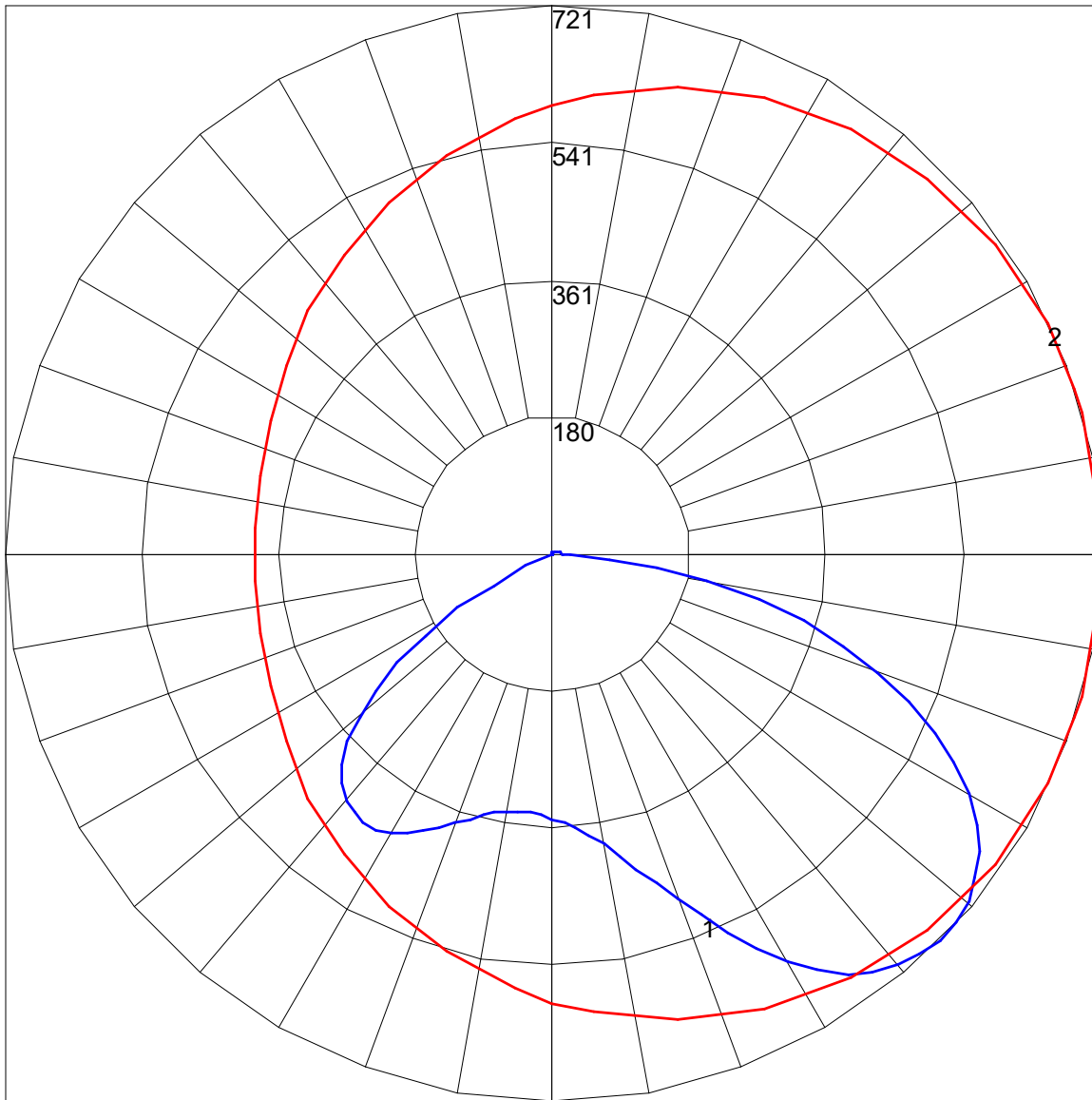
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 721 Located At Horizontal Angle = 5, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)