



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-03L-T5NU-50-70CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11038

[TESTLAB] LSI INDUSTRIES, INC

[ISSUE DATE] 06/13/19

[TEST DATE] 05/01/19

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] EXN-EGLED-03L-T5NU-50-70CRI

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

[OTHER] SCALED FROM ORIGINAL TEST DATA

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

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.18
Spacing Criterion (90-270)	2.18
Spacing Criterion (Diagonal)	2.14
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.08 ft (Diameter)
Luminous Width (90-270)	1.08 ft (Diameter)
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9105	9045	9022
55	9469	9378	9326
65	8791	8686	8686
75	6646	6609	6536
85	2102	2175	2150

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	475	475	475	475	475	475	475	475	475	475
2.5	476	476	476	476	476	476	476	476	476	477
5.0	480	481	481	481	481	481	481	481	481	482
7.5	490	489	489	490	490	490	489	490	490	490
10.0	503	502	502	502	502	502	502	502	502	502
12.5	518	518	517	518	517	518	518	518	518	518
15.0	539	538	538	538	537	538	538	539	538	538
17.5	559	559	558	558	558	558	559	559	558	558
20.0	583	584	584	583	583	584	583	583	582	582
22.5	610	610	610	609	610	609	609	609	609	609
25.0	637	637	637	635	636	636	636	636	636	635
27.5	663	664	664	663	663	662	661	661	662	662
30.0	687	687	687	687	686	685	685	685	685	684
32.5	710	710	710	710	709	708	707	707	706	707
35.0	730	729	729	729	728	727	726	726	726	726
37.5	746	745	745	744	743	742	741	741	740	740
40.0	757	757	757	756	755	754	752	752	752	752
42.5	765	765	764	763	762	761	760	759	759	758
45.0	768	768	767	766	764	763	762	761	762	761
47.5	766	766	765	763	761	760	760	759	759	758
50.0	758	758	757	755	753	752	751	750	750	750
52.5	745	744	743	741	739	738	738	737	736	736
55.0	726	725	723	721	719	719	718	718	717	716
57.5	701	700	697	693	692	692	693	692	692	689
60.0	670	668	666	663	661	661	662	662	661	659
62.5	629	629	628	625	623	623	622	622	622	621
65.0	586	586	584	582	580	579	578	578	578	578
67.5	539	538	536	534	532	531	530	529	531	531
70.0	484	483	482	479	478	476	477	476	476	477
72.5	425	426	425	423	419	421	421	421	419	418
75.0	363	365	364	358	356	361	360	360	359	355
77.5	295	298	297	291	290	294	296	295	295	289
80.0	223	227	226	223	222	225	226	227	225	221
82.5	152	157	156	155	154	156	154	157	155	153
85.0	86	90	89	88	88	89	87	87	88	88
87.5	31	32	33	33	33	33	32	32	33	34
90.0	4	4	4	5	5	5	5	6	6	6
92.5	4	4	4	4	4	4	4	4	4	4
95.0	5	5	5	5	5	5	5	5	5	6
97.5	6	7	6	7	6	6	6	6	7	7
100.0	8	8	8	8	8	8	8	8	8	8
102.5	9	9	9	9	9	9	9	9	9	9
105.0	11	11	11	11	11	11	11	11	11	11
107.5	12	13	13	12	12	12	12	12	13	13
110.0	14	14	14	14	14	14	14	14	14	14
112.5	16	16	16	16	16	16	16	16	16	16
115.0	18	18	18	18	19	19	19	18	18	18
117.5	20	20	20	21	21	21	21	21	20	21
120.0	23	23	22	23	23	23	23	23	23	23
122.5	26	25	25	25	25	26	25	25	25	25
125.0	29	28	27	28	28	28	28	28	28	28
127.5	31	31	30	31	30	31	31	31	30	31
130.0	34	34	33	33	33	34	33	34	33	33
132.5	37	36	35	36	35	36	35	36	35	36

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CANDELA TABULATION - (Cont.)

135.0	40	39	39	39	38	40	38	39	38	38
137.5	43	42	41	42	40	42	41	41	40	40
140.0	45	44	43	44	41	45	44	45	43	42
142.5	47	47	46	47	44	47	46	46	43	43
145.0	48	48	48	49	46	49	47	46	45	44
147.5	52	50	50	51	47	49	47	46	45	45
150.0	54	53	52	50	48	48	47	46	45	45
152.5	55	54	52	49	47	47	47	46	46	44
155.0	50	50	48	45	45	47	45	46	45	44
157.5	45	45	44	44	44	46	46	46	47	44
160.0	42	42	41	41	44	44	45	45	47	45
162.5	41	41	41	40	40	42	43	43	45	46
165.0	39	39	37	37	38	39	41	41	44	47
167.5	37	37	36	37	35	37	36	38	44	47
170.0	33	34	34	34	34	31	32	33	38	39
172.5	30	30	31	30	30	28	30	32	34	35
175.0	26	25	26	27	27	25	28	26	28	27
177.5	18	17	17	18	15	17	18	19	18	17
180.0	14	14	14	14	14	14	14	14	14	14

Vert. Horizontal Angles

	<u>90</u>
0.0	475
2.5	476
5.0	482
7.5	490
10.0	502
12.5	518
15.0	537
17.5	558
20.0	581
22.5	609
25.0	635
27.5	662
30.0	685
32.5	707
35.0	726
37.5	741
40.0	752
42.5	758
45.0	761
47.5	758
50.0	750
52.5	736
55.0	715
57.5	690
60.0	659
62.5	622
65.0	579
67.5	531
70.0	478
72.5	420
75.0	357
77.5	293
80.0	224

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CANDELA TABULATION - (Cont.)

82.5	155
85.0	88
87.5	34
90.0	7
92.5	4
95.0	5
97.5	6
100.0	8
102.5	9
105.0	11
107.5	13
110.0	14
112.5	16
115.0	18
117.5	20
120.0	23
122.5	26
125.0	28
127.5	31
130.0	34
132.5	36
135.0	39
137.5	40
140.0	44
142.5	44
145.0	44
147.5	44
150.0	44
152.5	44
155.0	43
157.5	44
160.0	45
162.5	44
165.0	48
167.5	45
170.0	42
172.5	33
175.0	27
177.5	20
180.0	14

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	200.59	N.A.	5.90
0-30	496.17	N.A.	14.60
0-40	952.12	N.A.	28.10
0-60	2181.29	N.A.	64.30
0-80	3129.00	N.A.	92.30
0-90	3235.32	N.A.	95.40
10-90	3188.73	N.A.	94.00
20-40	751.52	N.A.	22.20
20-50	1340.04	N.A.	39.50
40-70	1800.56	N.A.	53.10
60-80	947.71	N.A.	28.00
70-80	376.33	N.A.	11.10
80-90	106.32	N.A.	3.10
90-110	17.47	N.A.	0.50
90-120	35.63	N.A.	1.10
90-130	60.63	N.A.	1.80
90-150	119.45	N.A.	3.50
90-180	155.14	N.A.	4.60
110-180	137.68	N.A.	4.10
0-180	3390.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.59
10-20	154.00
20-30	295.57
30-40	455.95
40-50	588.52
50-60	640.66
60-70	571.38
70-80	376.33
80-90	106.32
90-100	6.01
100-110	11.46
110-120	18.16
120-130	25.00
130-140	29.66
140-150	29.16
150-160	21.50
160-170	11.48
170-180	2.71

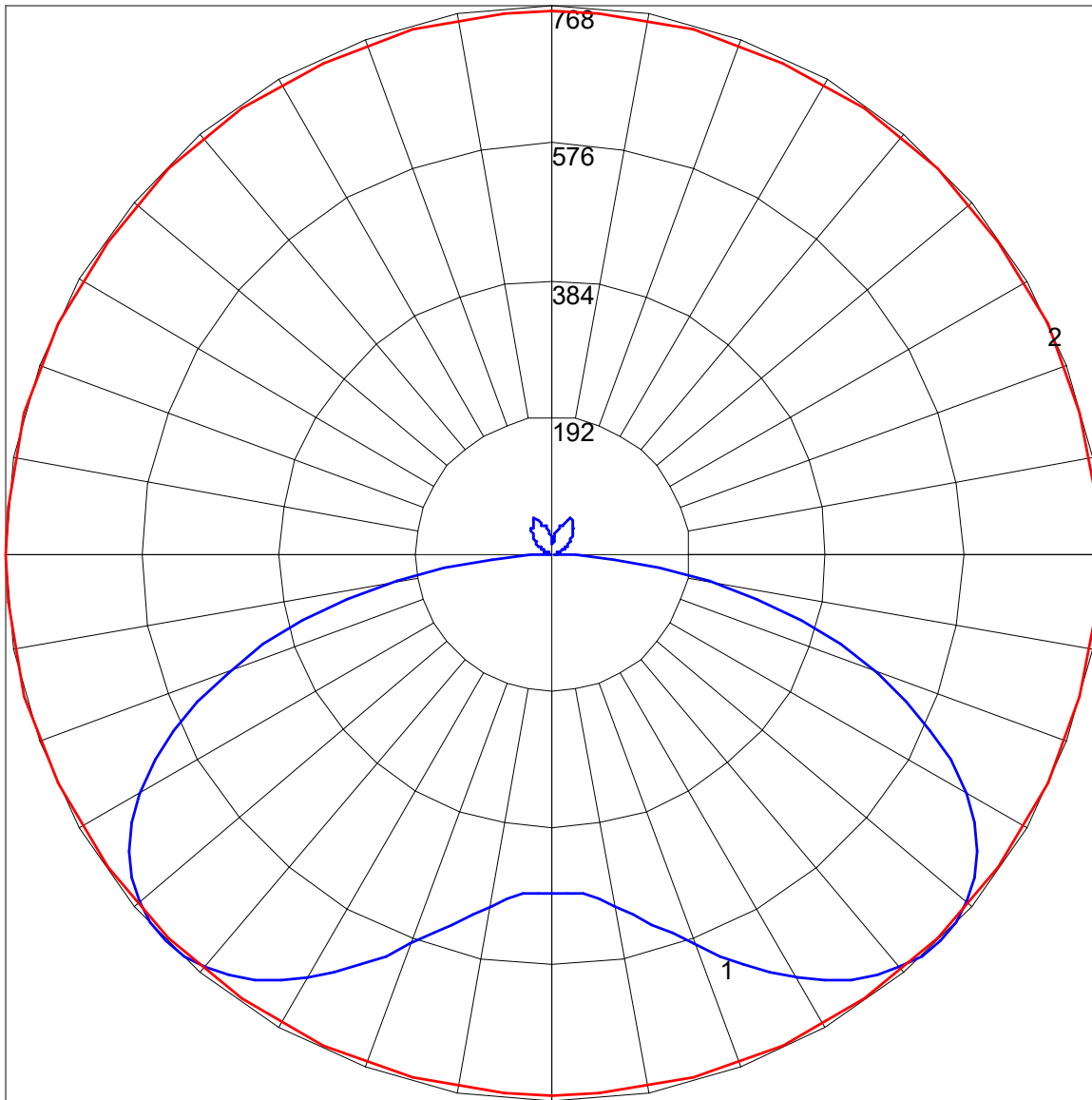
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	95
1	106	100	95	90	102	97	92	88	92	88	85	87	84	81	83	80	78	75
2	94	84	77	70	91	82	75	69	78	72	66	74	69	64	70	66	62	59
3	84	72	63	55	81	70	62	55	67	59	53	63	57	51	60	54	50	47
4	76	63	53	45	73	61	52	44	58	50	43	55	48	42	52	46	41	38
5	69	55	45	37	67	53	44	37	51	42	36	48	41	35	46	39	34	32
6	63	49	39	32	61	47	38	31	45	37	30	43	35	30	41	34	29	27
7	58	43	34	27	56	42	33	27	40	32	26	38	31	26	37	30	25	23
8	54	39	30	23	52	38	29	23	36	28	23	35	28	22	33	27	22	20
9	50	35	27	21	48	35	26	20	33	25	20	32	25	20	30	24	19	17
10	47	32	24	18	45	32	24	18	30	23	18	29	22	17	28	22	17	15

POLAR GRAPH



Maximum Candela = 768 Located At Horizontal Angle = 0, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)