



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-03L-T5NU-40-70CRI.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-40-70CRI

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

[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	3417
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
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	9176	9116	9093
55	9547	9456	9404
65	8866	8761	8761
75	6701	6664	6591
85	2126	2199	2175

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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	479	479	479	479	479	479	479	479	479	479
2.5	480	480	480	480	480	480	480	480	480	481
5.0	484	485	485	485	485	485	485	485	485	486
7.5	494	493	493	494	494	494	493	494	494	494
10.0	507	506	506	506	506	506	506	506	506	506
12.5	522	522	521	522	521	522	522	522	522	522
15.0	543	542	542	542	541	542	542	543	542	542
17.5	564	564	563	563	563	563	564	564	563	563
20.0	588	589	589	588	588	589	588	588	587	587
22.5	615	615	615	614	615	614	614	614	614	614
25.0	642	642	642	640	641	641	641	641	641	640
27.5	668	669	669	668	668	667	666	666	667	667
30.0	693	693	693	693	692	691	691	691	691	690
32.5	716	716	716	716	715	714	713	713	712	713
35.0	736	735	735	735	734	733	732	732	732	732
37.5	752	751	751	750	749	748	747	747	746	746
40.0	763	763	763	762	761	760	758	758	758	758
42.5	771	771	770	769	768	767	766	765	765	764
45.0	774	774	773	772	770	769	768	767	768	767
47.5	772	772	771	769	767	766	766	765	765	764
50.0	764	764	763	761	759	758	757	756	756	756
52.5	751	750	749	747	745	744	744	743	742	742
55.0	732	731	729	727	725	725	724	724	723	722
57.5	707	706	703	699	698	698	699	698	698	695
60.0	676	674	671	668	666	666	667	667	666	664
62.5	634	634	633	630	628	628	627	627	627	626
65.0	591	591	589	587	585	584	583	583	583	583
67.5	543	542	540	538	536	535	534	533	535	535
70.0	488	487	486	483	482	480	481	480	480	481
72.5	429	430	429	426	422	424	424	424	422	421
75.0	366	368	367	361	359	364	363	363	362	358
77.5	297	300	299	293	292	296	298	297	297	291
80.0	225	229	228	225	224	227	228	229	227	223
82.5	153	158	157	156	155	157	155	158	156	154
85.0	87	91	90	89	89	90	88	88	89	89
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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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	479
2.5	480
5.0	486
7.5	494
10.0	506
12.5	522
15.0	541
17.5	563
20.0	586
22.5	614
25.0	640
27.5	667
30.0	691
32.5	713
35.0	732
37.5	747
40.0	758
42.5	764
45.0	767
47.5	764
50.0	756
52.5	742
55.0	721
57.5	696
60.0	664
62.5	627
65.0	584
67.5	535
70.0	482
72.5	423
75.0	360
77.5	295
80.0	226

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CANDELA TABULATION - (Cont.)

82.5	156
85.0	89
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	202.24	N.A.	5.90
0-30	500.19	N.A.	14.60
0-40	959.91	N.A.	28.10
0-60	2199.01	N.A.	64.40
0-80	3154.28	N.A.	92.30
0-90	3261.41	N.A.	95.50
10-90	3214.44	N.A.	94.10
20-40	757.67	N.A.	22.20
20-50	1350.84	N.A.	39.50
40-70	1815.08	N.A.	53.10
60-80	955.27	N.A.	28.00
70-80	379.29	N.A.	11.10
80-90	107.13	N.A.	3.10
90-110	17.47	N.A.	0.50
90-120	35.63	N.A.	1.00
90-130	60.63	N.A.	1.80
90-150	119.45	N.A.	3.50
90-180	155.14	N.A.	4.50
110-180	137.68	N.A.	4.00
0-180	3416.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.97
10-20	155.26
20-30	297.95
30-40	459.72
40-50	593.17
50-60	645.94
60-70	575.98
70-80	379.29
80-90	107.13
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

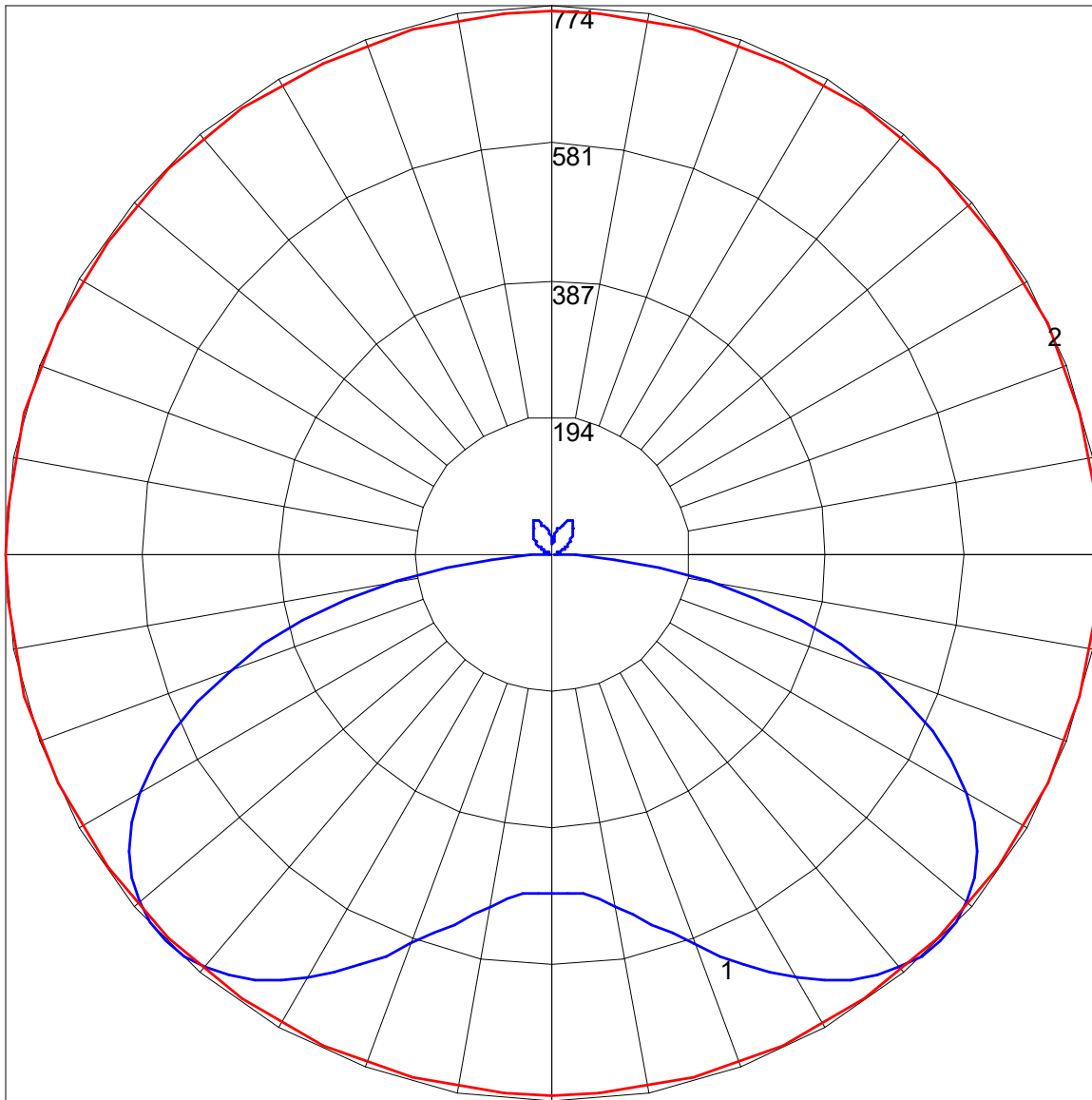
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 774 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.)