



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-03L-T5WU-50-70CRI.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11030

[TESTLAB] LSI INDUSTRIES, INC

[ISSUE DATE] 06/13/19

[TEST DATE] 04/30/19

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] EXN-EGLED-03L-T5WU-50-70CRI

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

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

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3389
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)	3.94
Spacing Criterion (90-270)	3.96
Spacing Criterion (Diagonal)	3.52
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	8014	7978	8002
55	10265	10265	10434
65	11492	11447	11642
75	9337	9246	9392
85	2664	2688	2712

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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	147	147	147	147	147	147	147	147	147	147
2.5	147	147	147	147	147	147	147	147	147	147
5.0	152	152	153	153	153	152	152	152	152	152
7.5	163	163	163	163	163	163	162	162	162	163
10.0	177	177	177	178	177	177	176	176	177	177
12.5	198	197	197	197	197	197	196	196	197	197
15.0	222	221	221	221	220	220	221	220	220	220
17.5	252	251	251	251	250	250	251	251	250	250
20.0	286	285	283	283	283	283	284	285	283	282
22.5	324	324	321	322	321	322	322	323	321	322
25.0	365	364	363	363	363	363	363	364	363	363
27.5	408	407	407	405	405	406	406	406	407	406
30.0	451	451	451	447	448	448	448	448	448	449
32.5	492	492	492	491	491	490	490	491	491	491
35.0	533	533	533	533	532	531	531	531	532	533
37.5	572	573	573	574	573	570	569	570	571	573
40.0	607	608	610	610	608	607	604	605	606	607
42.5	642	642	643	643	641	641	639	639	641	641
45.0	676	674	675	675	674	673	672	672	673	674
47.5	706	706	705	707	706	704	705	704	704	706
50.0	737	737	736	739	739	735	737	737	736	740
52.5	764	766	763	769	769	764	765	766	765	772
55.0	787	789	787	794	794	787	789	790	790	798
57.5	802	802	802	811	811	802	804	804	804	815
60.0	806	804	803	814	814	804	806	807	806	820
62.5	795	790	790	801	802	791	794	794	793	807
65.0	766	762	762	773	774	763	766	766	766	780
67.5	722	720	720	729	730	722	722	722	723	735
70.0	663	663	663	670	671	663	663	664	664	675
72.5	592	589	592	598	598	589	591	591	590	597
75.0	510	507	507	511	507	505	508	507	507	512
77.5	416	412	408	410	408	411	414	413	412	412
80.0	315	308	305	304	305	308	312	311	311	307
82.5	207	203	203	202	202	204	205	205	204	203
85.0	109	110	111	110	110	110	109	109	110	109
87.5	36	38	39	38	38	38	35	35	35	36
90.0	5	5	5	5	5	4	4	4	4	4
92.5	4	4	4	4	4	4	4	4	5	5
95.0	5	5	5	5	5	5	5	5	6	5
97.5	7	7	7	7	7	7	7	7	7	7
100.0	8	8	8	8	8	8	8	8	8	8
102.5	10	10	10	9	9	9	9	10	10	10
105.0	11	11	11	11	11	11	11	11	11	11
107.5	13	13	13	12	13	12	13	13	13	13
110.0	15	15	15	15	15	14	15	15	15	15
112.5	17	17	17	17	17	17	16	16	16	17
115.0	18	18	18	19	19	19	19	18	18	18
117.5	20	20	21	21	21	21	21	21	21	20
120.0	22	23	23	24	24	23	23	23	23	23
122.5	25	25	27	27	27	27	27	27	27	25
125.0	29	29	29	29	29	29	29	29	29	29
127.5	32	32	32	32	32	32	32	32	32	32
130.0	34	35	34	34	34	35	34	35	34	34
132.5	37	37	37	37	37	37	37	37	37	37

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CANDELA TABULATION - (Cont.)

135.0	40	40	40	39	39	40	39	39	39	39
137.5	43	42	42	42	42	43	42	42	42	42
140.0	46	45	45	44	45	45	44	44	45	45
142.5	48	46	47	47	47	47	47	46	47	47
145.0	48	48	49	49	48	47	48	48	49	49
147.5	47	49	50	51	50	48	49	48	51	50
150.0	50	49	49	51	50	49	51	49	51	51
152.5	48	49	47	48	50	50	50	50	51	50
155.0	47	48	47	47	48	49	47	49	49	49
157.5	49	47	48	46	47	48	47	46	49	49
160.0	46	46	47	44	45	46	45	46	46	47
162.5	44	45	44	45	44	47	44	44	45	45
165.0	38	40	41	42	43	45	44	44	42	42
167.5	36	36	40	42	40	39	40	41	40	40
170.0	29	30	36	37	38	36	35	35	36	35
172.5	31	32	30	31	32	32	31	32	32	29
175.0	27	28	25	27	25	27	27	27	27	25
177.5	18	18	17	19	15	17	18	18	18	19
180.0	10	10	10	10	10	10	10	10	10	10

Vert. Horizontal Angles

	<u>90</u>
0.0	147
2.5	147
5.0	153
7.5	163
10.0	177
12.5	197
15.0	220
17.5	250
20.0	283
22.5	321
25.0	362
27.5	404
30.0	448
32.5	490
35.0	534
37.5	574
40.0	610
42.5	643
45.0	675
47.5	708
50.0	741
52.5	773
55.0	800
57.5	817
60.0	819
62.5	804
65.0	776
67.5	733
70.0	675
72.5	603
75.0	513
77.5	412
80.0	309

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CANDELA TABULATION - (Cont.)

82.5	205
85.0	111
87.5	37
90.0	4
92.5	5
95.0	6
97.5	7
100.0	8
102.5	10
105.0	11
107.5	13
110.0	15
112.5	17
115.0	18
117.5	20
120.0	23
122.5	27
125.0	29
127.5	31
130.0	34
132.5	37
135.0	39
137.5	42
140.0	45
142.5	48
145.0	50
147.5	50
150.0	50
152.5	51
155.0	50
157.5	48
160.0	47
162.5	43
165.0	42
167.5	39
170.0	35
172.5	27
175.0	28
177.5	20
180.0	10

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	80.53	N.A.	2.40
0-30	251.42	N.A.	7.40
0-40	586.77	N.A.	17.30
0-60	1813.57	N.A.	53.50
0-80	3091.03	N.A.	91.20
0-90	3228.78	N.A.	95.30
10-90	3213.44	N.A.	94.80
20-40	506.24	N.A.	14.90
20-50	1028.89	N.A.	30.40
40-70	1976.84	N.A.	58.30
60-80	1277.46	N.A.	37.70
70-80	527.42	N.A.	15.60
80-90	137.75	N.A.	4.10
90-110	17.97	N.A.	0.50
90-120	36.51	N.A.	1.10
90-130	62.51	N.A.	1.80
90-150	123.09	N.A.	3.60
90-180	160.21	N.A.	4.70
110-180	142.24	N.A.	4.20
0-180	3388.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.34
10-20	65.19
20-30	170.89
30-40	335.35
40-50	522.65
50-60	704.15
60-70	750.04
70-80	527.42
80-90	137.75
90-100	6.15
100-110	11.82
110-120	18.54
120-130	26.00
130-140	30.48
140-150	30.10
150-160	22.38
160-170	12.02
170-180	2.72

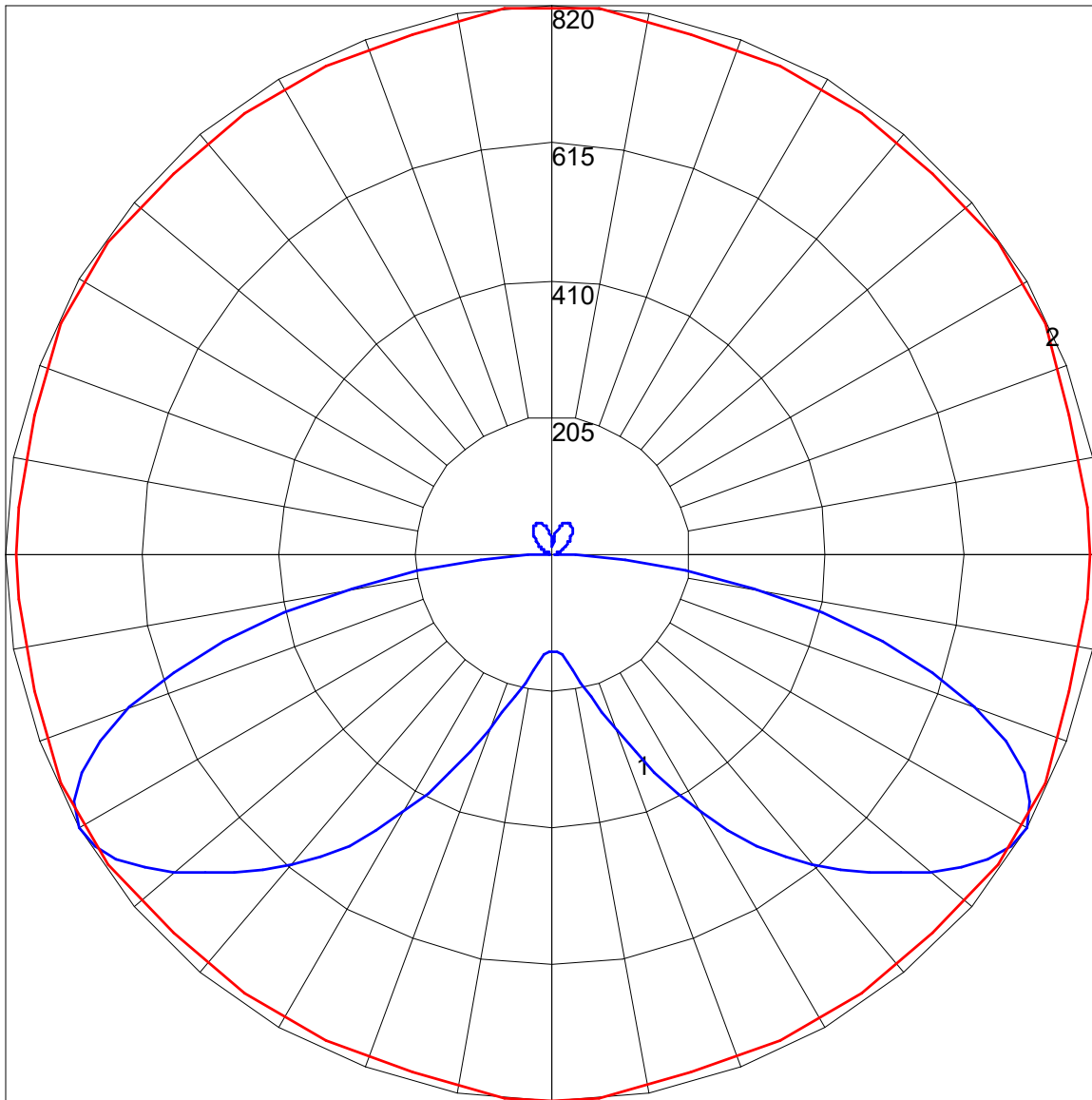
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	103	103	103	98	98	98	95
1	104	97	91	86	100	94	89	84	89	85	81	84	81	77	80	77	74	71
2	91	80	71	64	88	78	69	62	73	66	60	69	63	58	65	60	56	53
3	80	67	57	48	77	65	55	48	61	53	46	57	50	44	54	48	43	40
4	72	57	46	38	69	55	45	37	52	43	36	49	41	35	46	39	34	31
5	65	49	38	30	62	48	37	30	45	36	29	42	34	28	40	33	27	25
6	59	43	32	25	56	42	32	24	39	30	24	37	29	23	35	28	22	20
7	54	38	28	20	52	37	27	20	35	26	20	33	25	19	31	24	19	16
8	50	34	24	17	48	33	24	17	31	23	17	29	22	16	28	21	16	13
9	46	30	21	15	44	30	21	15	28	20	14	27	19	14	25	18	13	11
10	43	28	19	13	41	27	18	13	26	18	12	24	17	12	23	16	12	10

POLAR GRAPH



Maximum Candela = 820 Located At Horizontal Angle = 85, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (85 - 265) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)