



IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-03L-T5W-40-70CRI-HSS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-10594_scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]10/17/18
[TEST DATE]09/21/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]EXN-EGLED-03L-T5W-40-70CRI-HSS
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2187
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	22
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.98
Spacing Criterion (90-270)	3.72
Spacing Criterion (Diagonal)	3.16
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.13 ft (Diameter)
Luminous Width (90-270)	1.13 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	9511	9390	8129
55	13385	13694	11416
65	17235	18022	14208
75	18352	19320	13493
85	11979	12294	6515

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CANDELA TABULATION

	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>22.5</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	126.130	126.130	126.130	126.130	126.130	126.130	126.130	126.130	126.130	126.130
2.5	126.130	126.412	126.130	126.412	126.130	126.412	126.412	126.694	126.694	126.976
5.0	130.363	130.645	130.363	130.927	130.363	130.927	130.927	131.209	131.491	131.773
7.5	138.545	138.828	139.110	139.392	139.110	139.392	139.392	139.674	139.956	140.238
10.0	151.525	151.807	151.807	152.372	152.936	152.090	152.090	152.090	152.372	152.654
12.5	168.738	169.020	170.431	169.584	170.431	170.149	168.738	168.738	169.020	169.302
15.0	191.311	192.722	193.004	191.876	192.722	192.158	190.465	190.183	190.183	189.900
17.5	218.400	220.093	220.375	218.682	219.528	218.682	218.117	216.989	215.296	215.578
20.0	253.671	251.978	252.542	250.003	250.849	249.720	248.874	246.617	243.795	243.795
22.5	289.789	288.096	288.378	287.249	286.403	284.710	282.734	281.323	277.091	274.551
25.0	329.575	328.164	327.882	326.471	325.624	323.085	319.981	317.441	311.798	308.130
27.5	372.747	373.311	369.643	369.643	366.821	363.435	360.331	355.534	350.173	343.965
30.0	416.765	417.329	411.968	411.686	408.864	406.043	399.835	393.909	386.855	378.954
32.5	459.937	461.066	456.833	453.729	450.625	446.393	439.621	431.438	422.691	413.379
35.0	499.723	501.416	498.030	494.926	493.233	486.179	477.996	467.556	457.398	446.675
37.5	533.866	536.123	535.841	533.301	533.019	523.708	514.396	502.545	490.694	477.996
40.0	564.622	566.880	568.855	567.444	567.444	560.390	547.974	536.405	522.297	507.059
42.5	592.557	596.790	598.200	598.200	598.483	593.121	581.552	568.008	551.925	534.430
45.0	621.621	624.442	627.828	627.546	628.393	624.160	613.720	597.918	580.706	564.058
47.5	647.862	651.248	657.456	657.456	657.174	653.506	645.605	629.521	610.052	592.275
50.0	672.975	677.490	685.955	686.520	684.827	681.441	677.208	657.456	638.269	619.645
52.5	694.703	700.628	711.633	712.479	711.068	708.247	704.014	682.287	661.971	645.605
55.0	709.658	718.969	731.949	734.489	733.078	732.231	726.023	701.475	679.748	664.793
57.5	716.712	728.845	745.211	747.468	746.904	746.057	740.132	712.197	689.906	675.233
60.0	714.454	728.281	745.493	747.468	747.750	747.468	742.389	712.479	689.341	674.104
62.5	702.039	715.583	732.795	734.771	735.053	735.335	730.256	700.910	677.490	658.867
65.0	673.258	690.188	705.989	707.965	709.375	709.375	704.014	676.926	651.248	630.368
67.5	633.189	651.531	665.357	668.743	669.307	669.589	663.382	634.882	612.873	588.607
70.0	579.295	600.176	611.180	614.848	614.848	615.413	606.383	583.245	559.543	534.430
72.5	514.114	536.970	545.435	544.588	547.974	548.256	540.073	519.757	496.619	466.709
75.0	439.057	458.808	467.838	466.145	469.531	465.863	462.194	445.546	423.255	392.781
77.5	357.227	373.875	371.336	378.390	372.747	377.543	374.440	361.742	340.861	310.951
80.0	271.448	277.655	277.655	284.710	279.913	279.348	280.477	271.165	252.824	226.018
82.5	176.356	185.386	184.539	191.029	187.361	186.514	182.846	180.307	161.966	141.367
85.0	96.502	100.453	100.453	101.017	102.146	101.299	99.042	90.294	85.215	72.518
87.5	32.450	33.578	33.860	33.578	34.425	34.143	31.321	28.781	24.831	22.574
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**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	126.130	126.130	126.130	126.130	126.130	126.130	126.130	126.130	126.130	126.130
2.5	126.976	126.976	126.976	126.976	126.694	126.694	126.412	126.412	126.130	126.412
5.0	131.773	131.773	131.773	132.056	132.056	132.056	132.056	131.773	131.773	131.773
7.5	140.803	140.803	140.238	140.521	140.521	140.521	140.521	140.521	140.521	140.521
10.0	153.500	153.500	152.936	152.936	152.936	152.654	152.936	153.500	152.936	152.936
12.5	169.866	169.866	169.866	169.020	168.455	168.173	169.302	169.302	169.584	168.738
15.0	190.183	190.183	189.900	188.772	188.207	187.643	188.490	188.207	188.772	188.772
17.5	213.885	213.321	213.038	211.345	210.781	210.781	210.499	209.652	209.934	210.217
20.0	240.973	239.844	239.280	237.305	235.612	235.612	235.048	233.637	233.637	234.201
22.5	270.883	269.472	268.344	266.651	263.829	261.572	260.725	259.596	259.032	259.314
25.0	303.333	301.358	299.382	295.996	293.457	290.635	287.531	286.120	285.274	284.992
27.5	336.347	333.807	332.396	327.317	322.520	318.570	315.184	312.362	310.669	309.540
30.0	371.336	365.974	363.717	356.663	350.455	345.094	340.579	336.911	334.936	334.089

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CANDELA TABULATION - (Cont.)

32.5	403.785	399.271	394.191	384.880	376.415	369.643	364.281	360.613	357.509	354.688
35.0	435.106	428.898	422.973	411.686	400.117	391.088	385.162	380.083	375.850	372.182
37.5	464.170	457.680	449.779	435.388	421.280	410.275	402.374	396.449	390.805	385.162
40.0	492.387	482.793	473.763	455.987	439.903	426.641	415.636	407.736	400.117	393.345
42.5	518.064	507.059	497.748	474.610	455.705	439.621	426.077	415.354	405.478	396.731
45.0	543.177	531.326	519.193	493.797	468.967	449.779	433.695	419.022	406.325	396.167
47.5	566.880	553.618	538.945	511.292	481.100	456.833	437.928	417.894	401.810	390.523
50.0	589.735	574.498	557.568	526.811	489.001	460.219	437.363	411.122	391.088	377.543
52.5	610.898	592.557	574.498	538.098	492.669	458.526	430.027	398.424	373.029	355.816
55.0	628.393	605.255	586.631	543.177	489.847	448.932	414.508	377.261	345.940	321.392
57.5	636.011	609.487	590.017	540.073	478.560	430.591	389.395	341.708	305.308	275.962
60.0	631.779	603.279	581.552	526.247	457.680	402.374	351.584	297.125	251.413	214.731
62.5	614.284	584.938	559.825	500.852	427.205	364.281	304.744	242.666	189.336	145.600
65.0	584.656	555.028	527.094	462.194	386.855	314.902	249.438	180.871	121.615	74.211
67.5	542.049	511.856	482.511	414.226	332.114	257.621	190.183	118.794	60.384	16.930
70.0	487.308	459.091	426.641	355.534	275.962	200.341	132.902	67.439	21.163	0.282
72.5	422.691	397.013	359.767	294.303	217.553	145.882	82.111	34.143	5.079	0.000
75.0	347.633	322.802	292.046	230.815	161.401	98.759	47.687	15.237	0.564	0.000
77.5	266.651	245.770	221.503	168.455	110.893	61.795	26.524	5.643	0.000	0.000
80.0	190.465	173.252	154.065	111.739	69.696	35.271	12.980	1.975	0.000	0.000
82.5	119.358	106.942	91.423	63.206	37.246	17.495	5.926	0.564	0.000	0.000
85.0	59.538	52.484	43.736	29.346	15.802	7.336	1.975	0.000	0.000	0.000
87.5	18.059	15.519	12.415	7.336	3.950	1.693	0.282	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	175.0	180.0
0.0	126.130	126.130
2.5	126.412	126.130
5.0	131.773	131.773
7.5	140.521	140.521
10.0	152.654	152.654
12.5	168.173	168.455
15.0	187.361	187.361
17.5	209.934	208.806
20.0	233.637	232.508
22.5	259.596	259.314
25.0	284.992	284.710
27.5	310.105	309.823
30.0	333.243	332.678
32.5	353.277	352.430
35.0	369.643	368.232
37.5	382.340	380.647
40.0	390.241	388.548
42.5	393.063	391.088
45.0	390.523	387.984
47.5	381.776	378.108
50.0	365.692	362.306
52.5	341.144	337.475
55.0	305.308	301.075
57.5	256.493	251.978
60.0	194.697	189.900
62.5	119.358	119.076
65.0	44.865	44.019
67.5	0.000	0.000

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CANDELA TABULATION - (Cont.)

70.0	0.000	0.000
72.5	0.000	0.000
75.0	0.000	0.000
77.5	0.000	0.000
80.0	0.000	0.000
82.5	0.000	0.000
85.0	0.000	0.000
87.5	0.000	0.000
90.0	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	69.09	N.A.	3.20
0-30	211.99	N.A.	9.70
0-40	483.28	N.A.	22.10
0-60	1385.6	N.A.	63.40
0-80	2122.04	N.A.	97.00
0-90	2187.04	N.A.	100.00
10-90	2173.81	N.A.	99.40
20-40	414.19	N.A.	18.90
20-50	817.25	N.A.	37.40
40-70	1360.67	N.A.	62.20
60-80	736.44	N.A.	33.70
70-80	278.09	N.A.	12.70
80-90	64.99	N.A.	3.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2187.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	13.22
10-20	55.87
20-30	142.90
30-40	271.28
40-50	403.06
50-60	499.26
60-70	458.35
70-80	278.09
80-90	64.99
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

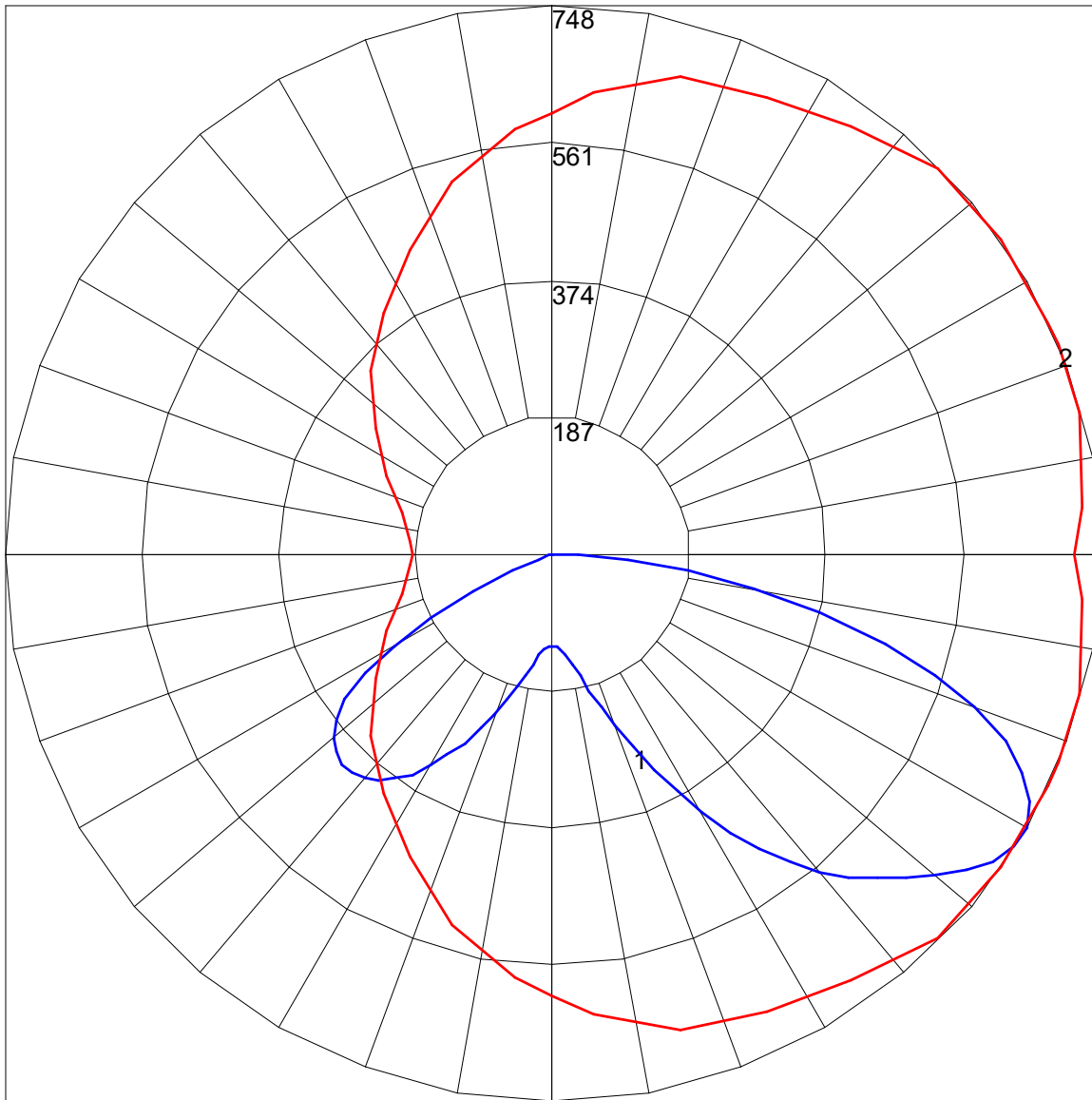
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	100	94	90	103	97	92	88	93	89	85	89	86	83	85	83	80	78
2	94	83	75	68	91	81	73	67	77	71	65	74	68	63	71	66	62	59
3	83	70	60	52	80	68	59	52	65	57	51	62	55	50	60	54	49	46
4	74	60	49	41	72	58	49	41	56	47	40	53	46	40	51	44	39	36
5	67	52	41	33	65	51	41	33	48	39	33	46	38	32	44	37	32	29
6	61	45	35	27	59	44	34	27	42	33	27	41	33	27	39	32	26	24
7	56	40	30	23	54	39	30	23	38	29	22	36	28	22	34	27	22	20
8	51	36	26	19	50	35	26	19	34	25	19	32	25	19	31	24	19	17
9	48	32	23	17	46	32	23	17	30	22	16	29	22	16	28	21	16	14
10	44	29	20	14	43	29	20	14	28	20	14	27	19	14	26	19	14	12

POLAR GRAPH



Maximum Candela = 747.75 Located At Horizontal Angle = 25, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (25 - 205) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)