



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-05L-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-05L-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	3649
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	37
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	15868	15667	13563
55	22333	22848	19048
65	28756	30070	23706
75	30621	32235	22513
85	19986	20512	10870

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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>
<b>0.0</b>	210.448	210.448	210.448	210.448	210.448	210.448	210.448	210.448	210.448	210.448
<b>2.5</b>	210.448	210.918	210.448	210.918	210.448	210.918	210.918	211.389	211.389	211.860
<b>5.0</b>	217.510	217.980	217.510	218.451	217.510	218.451	218.451	218.922	219.393	219.864
<b>7.5</b>	231.163	231.634	232.104	232.575	232.104	232.575	232.575	233.046	233.517	233.988
<b>10.0</b>	252.820	253.290	253.290	254.232	255.174	253.761	253.761	253.761	254.232	254.703
<b>12.5</b>	281.538	282.009	284.363	282.951	284.363	283.892	281.538	281.538	282.009	282.480
<b>15.0</b>	319.202	321.556	322.027	320.144	321.556	320.615	317.790	317.319	317.319	316.848
<b>17.5</b>	364.399	367.224	367.695	364.870	366.282	364.870	363.928	362.045	359.220	359.691
<b>20.0</b>	423.249	420.424	421.366	417.129	418.541	416.658	415.246	411.479	406.771	406.771
<b>22.5</b>	483.512	480.687	481.158	479.274	477.862	475.037	471.742	469.388	462.326	458.088
<b>25.0</b>	549.894	547.540	547.070	544.716	543.303	539.066	533.887	529.650	520.234	514.114
<b>27.5</b>	621.927	622.868	616.748	616.748	612.040	606.390	601.212	593.208	584.263	573.905
<b>30.0</b>	695.372	696.313	687.368	686.897	682.189	677.481	667.124	657.237	645.467	632.284
<b>32.5</b>	767.404	769.287	762.225	757.046	751.868	744.806	733.506	719.853	705.258	689.722
<b>35.0</b>	833.787	836.612	830.962	825.783	822.958	811.188	797.535	780.116	763.167	745.276
<b>37.5</b>	890.754	894.520	894.049	889.812	889.341	873.805	858.268	838.495	818.721	797.535
<b>40.0</b>	942.071	945.837	949.133	946.779	946.779	935.009	914.294	894.991	871.451	846.028
<b>42.5</b>	988.680	995.742	998.096	998.096	998.567	989.622	970.319	947.720	920.885	891.695
<b>45.0</b>	1037.172	1041.880	1047.530	1047.059	1048.472	1041.410	1023.990	997.625	968.906	941.129
<b>47.5</b>	1080.957	1086.606	1096.964	1096.964	1096.493	1090.373	1077.190	1050.355	1017.870	988.209
<b>50.0</b>	1122.858	1130.391	1144.515	1145.456	1142.632	1136.982	1129.920	1096.964	1064.950	1033.877
<b>52.5</b>	1159.110	1168.996	1187.358	1188.770	1186.416	1181.708	1174.646	1138.394	1104.497	1077.190
<b>55.0</b>	1184.062	1199.598	1221.255	1225.492	1223.138	1221.726	1211.368	1170.409	1134.157	1109.205
<b>57.5</b>	1195.832	1216.076	1243.383	1247.149	1246.208	1244.795	1234.908	1188.299	1151.106	1126.624
<b>60.0</b>	1192.066	1215.135	1243.854	1247.149	1247.620	1247.149	1238.675	1188.770	1150.164	1124.741
<b>62.5</b>	1171.350	1193.949	1222.668	1225.963	1226.434	1226.905	1218.430	1169.467	1130.391	1099.318
<b>65.0</b>	1123.329	1151.577	1177.942	1181.237	1183.591	1183.591	1174.646	1129.449	1086.606	1051.767
<b>67.5</b>	1056.475	1087.077	1110.146	1115.796	1116.738	1117.208	1106.851	1059.300	1022.578	982.089
<b>70.0</b>	966.552	1001.392	1019.753	1025.873	1025.873	1026.815	1011.749	973.144	933.596	891.695
<b>72.5</b>	857.798	895.932	910.056	908.644	914.294	914.764	901.111	867.214	828.608	778.703
<b>75.0</b>	732.565	765.521	780.586	777.762	783.411	777.291	771.170	743.393	706.200	655.354
<b>77.5</b>	596.033	623.810	619.573	631.343	621.927	629.930	624.752	603.566	568.726	518.822
<b>80.0</b>	452.910	463.267	463.267	475.037	467.034	466.092	467.975	452.439	421.837	377.111
<b>82.5</b>	294.250	309.316	307.903	318.732	312.611	311.199	305.078	300.841	270.239	235.871
<b>85.0</b>	161.014	167.605	167.605	168.546	170.430	169.017	165.251	150.656	142.182	120.996
<b>87.5</b>	54.142	56.025	56.496	56.025	57.438	56.967	52.259	48.022	41.430	37.664
<b>90.0</b>	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>
<b>0.0</b>	210.448	210.448	210.448	210.448	210.448	210.448	210.448	210.448	210.448	210.448
<b>2.5</b>	211.860	211.860	211.860	211.860	211.389	211.389	210.918	210.918	210.448	210.918
<b>5.0</b>	219.864	219.864	219.864	220.334	220.334	220.334	220.334	219.864	219.864	219.864
<b>7.5</b>	234.929	234.929	233.988	234.458	234.458	234.458	234.458	234.458	234.458	234.458
<b>10.0</b>	256.115	256.115	255.174	255.174	255.174	254.703	255.174	256.115	255.174	255.174
<b>12.5</b>	283.422	283.422	283.422	282.009	281.068	280.597	282.480	282.480	282.951	281.538
<b>15.0</b>	317.319	317.319	316.848	314.965	314.024	313.082	314.494	314.024	314.965	314.965
<b>17.5</b>	356.866	355.925	355.454	352.629	351.688	351.688	351.217	349.804	350.275	350.746
<b>20.0</b>	402.063	400.180	399.238	395.943	393.118	393.118	392.176	389.822	389.822	390.764
<b>22.5</b>	451.968	449.614	447.731	444.906	440.198	436.432	435.019	433.136	432.194	432.665
<b>25.0</b>	506.110	502.814	499.519	493.869	489.632	484.924	479.745	477.391	475.979	475.508
<b>27.5</b>	561.194	556.956	554.602	546.128	538.124	531.533	525.884	521.176	518.351	516.468
<b>30.0</b>	619.573	610.628	606.861	595.091	584.734	575.788	568.256	562.135	558.840	557.427

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## CANDELA TABULATION - (Cont.)

32.5	673.715	666.182	657.708	642.171	628.047	616.748	607.803	601.682	596.504	591.796
35.0	725.974	715.616	705.729	686.897	667.594	652.529	642.642	634.168	627.106	620.985
37.5	774.466	763.638	750.455	726.444	702.904	684.543	671.361	661.474	652.058	642.642
40.0	821.546	805.539	790.473	760.813	733.977	711.850	693.488	680.306	667.594	656.295
42.5	864.389	846.028	830.491	791.886	760.342	733.506	710.908	693.018	676.540	661.945
45.0	906.290	886.516	866.272	823.900	782.470	750.455	723.620	699.138	677.952	661.003
47.5	945.837	923.710	899.228	853.090	802.714	762.225	730.682	697.255	670.419	651.587
50.0	983.972	958.549	930.301	878.984	815.896	767.875	729.740	685.956	652.529	629.930
52.5	1019.282	988.680	958.549	897.816	822.017	765.050	717.499	664.770	622.398	593.679
55.0	1048.472	1009.866	978.793	906.290	817.309	749.043	691.605	629.460	577.201	536.241
57.5	1061.183	1016.928	984.443	901.111	798.477	718.441	649.704	570.139	509.406	460.442
60.0	1054.121	1006.570	970.319	878.042	763.638	671.361	586.617	495.752	419.483	358.279
62.5	1024.932	975.968	934.067	835.670	712.791	607.803	508.464	404.888	315.907	242.933
65.0	975.498	926.064	879.454	771.170	645.467	525.413	416.187	301.783	202.915	123.820
67.5	904.407	854.031	805.068	691.134	554.132	429.840	317.319	198.207	100.751	28.248
70.0	813.072	765.992	711.850	593.208	460.442	334.268	221.747	112.521	35.310	0.471
72.5	705.258	662.416	600.270	491.044	362.987	243.404	137.003	56.967	8.474	0.000
75.0	580.026	538.595	487.278	385.114	269.298	164.780	79.565	25.423	0.942	0.000
77.5	444.906	410.067	369.578	281.068	185.024	103.105	44.255	9.416	0.000	0.000
80.0	317.790	289.071	257.057	186.437	116.288	58.850	21.657	3.296	0.000	0.000
82.5	199.148	178.433	152.539	105.459	62.146	29.190	9.887	0.942	0.000	0.000
85.0	99.339	87.569	72.974	48.963	26.365	12.241	3.296	0.000	0.000	0.000
87.5	30.131	25.894	20.715	12.241	6.591	2.825	0.471	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

	<u>175.0</u>	<u>180.0</u>
0.0	210.448	210.448
2.5	210.918	210.448
5.0	219.864	219.864
7.5	234.458	234.458
10.0	254.703	254.703
12.5	280.597	281.068
15.0	312.611	312.611
17.5	350.275	348.392
20.0	389.822	387.939
22.5	433.136	432.665
25.0	475.508	475.037
27.5	517.409	516.938
30.0	556.015	555.073
32.5	589.442	588.029
35.0	616.748	614.394
37.5	637.934	635.109
40.0	651.116	648.292
42.5	655.824	652.529
45.0	651.587	647.350
47.5	636.992	630.872
50.0	610.157	604.507
52.5	569.197	563.077
55.0	509.406	502.344
57.5	427.957	420.424
60.0	324.852	316.848
62.5	199.148	198.678
65.0	74.857	73.445
67.5	0.000	0.000

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	0.000	0.000
<b>72.5</b>	0.000	0.000
<b>75.0</b>	0.000	0.000
<b>77.5</b>	0.000	0.000
<b>80.0</b>	0.000	0.000
<b>82.5</b>	0.000	0.000
<b>85.0</b>	0.000	0.000
<b>87.5</b>	0.000	0.000
<b>90.0</b>	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	115.28	N.A.	3.20
0-30	353.71	N.A.	9.70
0-40	806.35	N.A.	22.10
0-60	2311.87	N.A.	63.40
0-80	3540.63	N.A.	97.00
0-90	3649.06	N.A.	100.00
10-90	3627.00	N.A.	99.40
20-40	691.07	N.A.	18.90
20-50	1363.58	N.A.	37.40
40-70	2270.28	N.A.	62.20
60-80	1228.75	N.A.	33.70
70-80	463.99	N.A.	12.70
80-90	108.44	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	3649.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	22.06
10-20	93.21
20-30	238.43
30-40	452.64
40-50	672.50
50-60	833.02
60-70	764.76
70-80	463.99
80-90	108.44
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

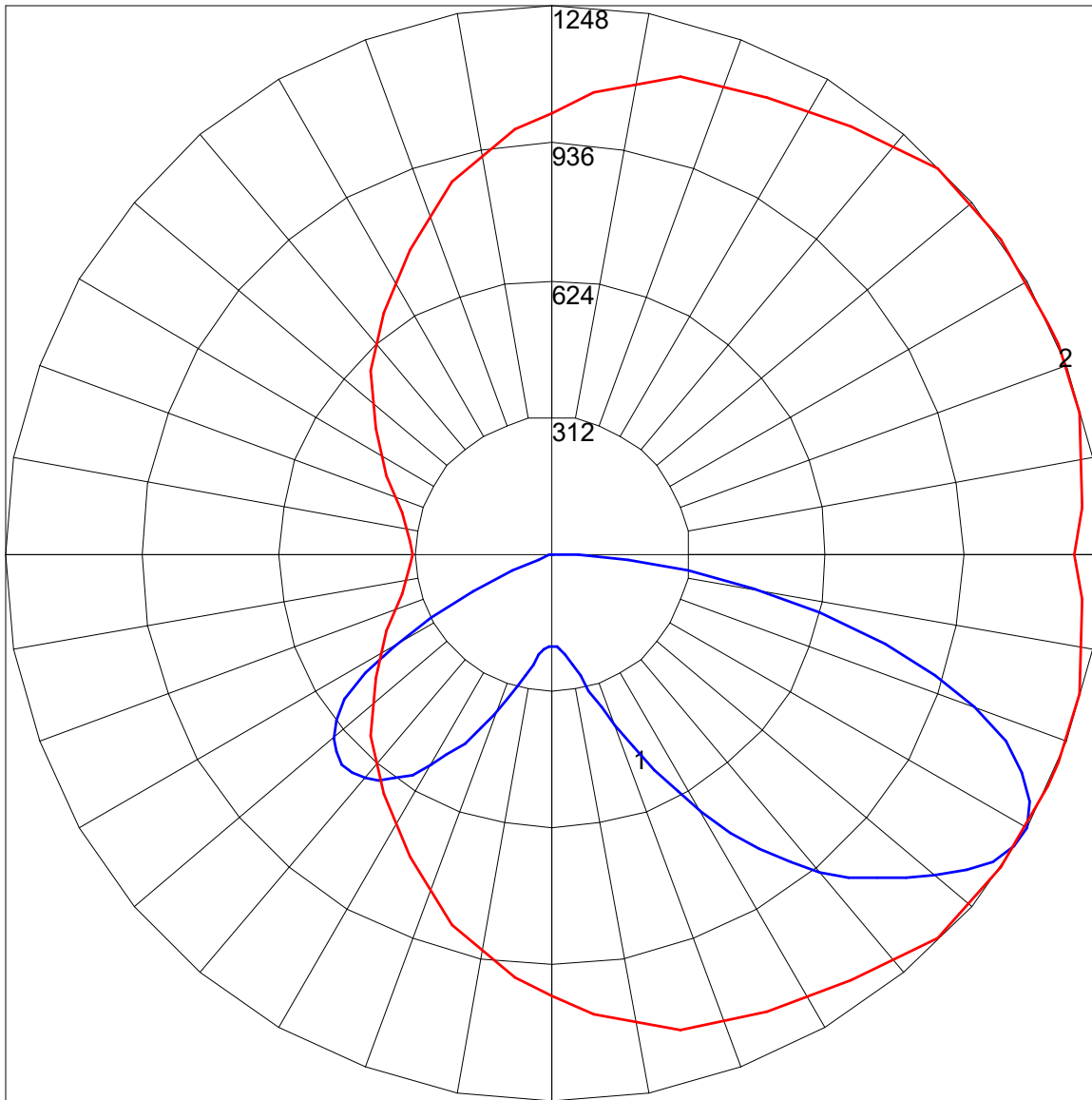
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1247.62 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.)