



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-11L-T5WU-40-70CRI.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11024  
[TESTLAB] LSI INDUSTRIES, INC  
[ISSUE DATE] 06/13/19  
[TEST DATE] 04/29/19  
[MANUFACTURER] LSI INDUSTRIES, INC  
[LUMEN CATEGORY] EXN-EGLED-11L-T5WU-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	11596
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	91
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	4.24
Spacing Criterion (90-270)	4.20
Spacing Criterion (Diagonal)	3.74
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	26626	26413	26128
55	35581	34981	35137
65	41616	40310	40415
75	34365	33266	33578
85	10361	10068	10092

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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>
<b>0.0</b>	433	433	433	433	433	433	433	433	433	433
<b>2.5</b>	435	435	435	435	435	435	434	434	434	434
<b>5.0</b>	451	451	450	451	450	451	450	450	450	449
<b>7.5</b>	481	480	479	480	479	480	480	480	479	478
<b>10.0</b>	524	524	522	522	523	523	522	522	521	519
<b>12.5</b>	582	582	581	580	580	580	580	580	578	575
<b>15.0</b>	656	657	654	653	656	653	653	652	651	648
<b>17.5</b>	747	747	746	746	745	742	743	741	738	737
<b>20.0</b>	854	855	853	856	852	847	848	846	842	845
<b>22.5</b>	976	976	977	981	976	967	967	965	959	963
<b>25.0</b>	1112	1113	1115	1118	1113	1106	1101	1098	1094	1097
<b>27.5</b>	1257	1258	1266	1263	1260	1252	1244	1240	1242	1242
<b>30.0</b>	1417	1413	1419	1415	1411	1407	1401	1389	1391	1390
<b>32.5</b>	1578	1569	1569	1567	1562	1556	1550	1540	1538	1538
<b>35.0</b>	1727	1719	1716	1717	1712	1702	1698	1694	1685	1684
<b>37.5</b>	1868	1866	1858	1861	1855	1845	1843	1839	1823	1825
<b>40.0</b>	1999	2000	1993	1994	1988	1980	1978	1970	1957	1955
<b>42.5</b>	2123	2130	2123	2120	2117	2106	2102	2094	2085	2081
<b>45.0</b>	2246	2253	2245	2243	2242	2228	2222	2215	2205	2205
<b>47.5</b>	2371	2376	2369	2372	2365	2348	2345	2336	2323	2326
<b>50.0</b>	2495	2499	2489	2494	2491	2467	2467	2458	2442	2451
<b>52.5</b>	2614	2619	2606	2619	2612	2586	2586	2575	2553	2571
<b>55.0</b>	2728	2732	2705	2730	2723	2682	2694	2680	2652	2680
<b>57.5</b>	2819	2810	2773	2819	2811	2749	2774	2760	2718	2766
<b>60.0</b>	2865	2844	2803	2862	2853	2778	2808	2795	2745	2808
<b>62.5</b>	2852	2817	2787	2845	2836	2760	2781	2767	2727	2790
<b>65.0</b>	2774	2733	2714	2765	2755	2687	2698	2683	2653	2710
<b>67.5</b>	2633	2596	2578	2627	2614	2554	2562	2548	2522	2570
<b>70.0</b>	2432	2406	2384	2424	2415	2362	2374	2362	2331	2379
<b>72.5</b>	2183	2159	2138	2159	2156	2106	2140	2127	2090	2120
<b>75.0</b>	1877	1865	1835	1859	1856	1817	1849	1845	1791	1824
<b>77.5</b>	1531	1530	1503	1525	1521	1488	1499	1515	1466	1495
<b>80.0</b>	1161	1149	1142	1155	1153	1120	1120	1122	1115	1133
<b>82.5</b>	779	773	776	779	779	759	749	743	749	765
<b>85.0</b>	424	417	423	430	424	412	406	403	405	415
<b>87.5</b>	144	142	142	140	130	141	137	134	137	132
<b>90.0</b>	21	22	22	20	20	20	19	19	19	19
<b>92.5</b>	15	15	15	15	16	16	16	16	16	16
<b>95.0</b>	18	18	18	18	19	19	19	19	19	19
<b>97.5</b>	23	23	23	23	23	23	24	24	24	23
<b>100.0</b>	27	27	27	27	28	28	28	28	28	28
<b>102.5</b>	32	32	32	33	33	34	34	34	34	34
<b>105.0</b>	38	38	38	38	39	39	39	39	39	39
<b>107.5</b>	43	43	44	44	45	45	45	45	45	45
<b>110.0</b>	50	51	50	51	51	52	52	51	52	52
<b>112.5</b>	58	58	57	57	57	58	58	58	58	59
<b>115.0</b>	67	66	65	65	64	64	65	65	66	68
<b>117.5</b>	74	74	73	73	72	71	72	74	74	76
<b>120.0</b>	82	82	82	81	80	81	81	82	82	84
<b>122.5</b>	89	90	90	90	89	90	90	91	91	92
<b>125.0</b>	98	99	99	100	99	99	99	100	100	101
<b>127.5</b>	106	108	109	110	108	108	108	108	109	110
<b>130.0</b>	115	117	119	119	118	117	117	118	119	120
<b>132.5</b>	125	126	127	128	127	126	126	127	128	129

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**CANDELA TABULATION - (Cont.)**

135.0	135	135	136	136	136	134	136	137	138	138
137.5	145	145	144	144	145	143	144	145	147	146
140.0	155	156	154	152	154	151	150	156	157	155
142.5	162	164	162	160	160	158	160	163	161	165
145.0	166	169	166	166	161	167	167	170	170	176
147.5	173	171	167	167	167	172	170	172	178	174
150.0	173	171	166	167	166	171	170	178	179	174
152.5	166	165	166	165	162	170	175	177	176	173
155.0	167	163	163	159	160	167	170	169	175	167
157.5	166	165	164	155	164	165	163	168	168	171
160.0	168	161	154	151	162	168	159	160	158	162
162.5	155	154	146	147	155	164	159	155	155	155
165.0	144	146	138	147	155	157	145	146	150	144
167.5	130	126	140	143	143	143	136	128	132	135
170.0	124	123	124	121	121	126	120	122	119	122
172.5	118	118	117	115	114	111	114	109	108	104
175.0	109	111	107	96	98	87	85	85	88	87
177.5	56	53	61	58	62	59	52	60	64	65
180.0	38	38	38	38	38	38	38	38	38	38

**Vert. Horizontal Angles**

	<u>90</u>
0.0	433
2.5	434
5.0	449
7.5	477
10.0	519
12.5	575
15.0	649
17.5	741
20.0	847
22.5	965
25.0	1098
27.5	1239
30.0	1386
32.5	1534
35.0	1682
37.5	1824
40.0	1954
42.5	2083
45.0	2204
47.5	2335
50.0	2462
52.5	2584
55.0	2694
57.5	2777
60.0	2810
62.5	2782
65.0	2694
67.5	2554
70.0	2359
72.5	2122
75.0	1834
77.5	1496
80.0	1126

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	<b>754</b>
<b>85.0</b>	<b>413</b>
<b>87.5</b>	<b>123</b>
<b>90.0</b>	<b>19</b>
<b>92.5</b>	<b>16</b>
<b>95.0</b>	<b>19</b>
<b>97.5</b>	<b>23</b>
<b>100.0</b>	<b>28</b>
<b>102.5</b>	<b>33</b>
<b>105.0</b>	<b>39</b>
<b>107.5</b>	<b>45</b>
<b>110.0</b>	<b>52</b>
<b>112.5</b>	<b>59</b>
<b>115.0</b>	<b>68</b>
<b>117.5</b>	<b>75</b>
<b>120.0</b>	<b>84</b>
<b>122.5</b>	<b>92</b>
<b>125.0</b>	<b>101</b>
<b>127.5</b>	<b>110</b>
<b>130.0</b>	<b>119</b>
<b>132.5</b>	<b>128</b>
<b>135.0</b>	<b>136</b>
<b>137.5</b>	<b>146</b>
<b>140.0</b>	<b>156</b>
<b>142.5</b>	<b>167</b>
<b>145.0</b>	<b>176</b>
<b>147.5</b>	<b>178</b>
<b>150.0</b>	<b>174</b>
<b>152.5</b>	<b>172</b>
<b>155.0</b>	<b>167</b>
<b>157.5</b>	<b>172</b>
<b>160.0</b>	<b>164</b>
<b>162.5</b>	<b>153</b>
<b>165.0</b>	<b>143</b>
<b>167.5</b>	<b>138</b>
<b>170.0</b>	<b>120</b>
<b>172.5</b>	<b>102</b>
<b>175.0</b>	<b>90</b>
<b>177.5</b>	<b>62</b>
<b>180.0</b>	<b>38</b>

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	238.58	N.A.	2.10
0-30	761.62	N.A.	6.60
0-40	1835.93	N.A.	15.80
0-60	5971.45	N.A.	51.50
0-80	10526.28	N.A.	90.80
0-90	11041.00	N.A.	95.20
10-90	10995.72	N.A.	94.80
20-40	1597.35	N.A.	13.80
20-50	3328.08	N.A.	28.70
40-70	6781.67	N.A.	58.50
60-80	4554.82	N.A.	39.30
70-80	1908.68	N.A.	16.50
80-90	514.73	N.A.	4.40
90-110	63.38	N.A.	0.50
90-120	128.41	N.A.	1.10
90-130	217.44	N.A.	1.90
90-150	426.30	N.A.	3.70
90-180	554.75	N.A.	4.80
110-180	491.36	N.A.	4.20
0-180	11595.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.28
10-20	193.30
20-30	523.04
30-40	1074.31
40-50	1730.73
50-60	2404.79
60-70	2646.15
70-80	1908.68
80-90	514.73
90-100	22.21
100-110	41.17
110-120	65.03
120-130	89.03
130-140	104.95
140-150	103.91
150-160	77.25
160-170	41.58
170-180	9.62

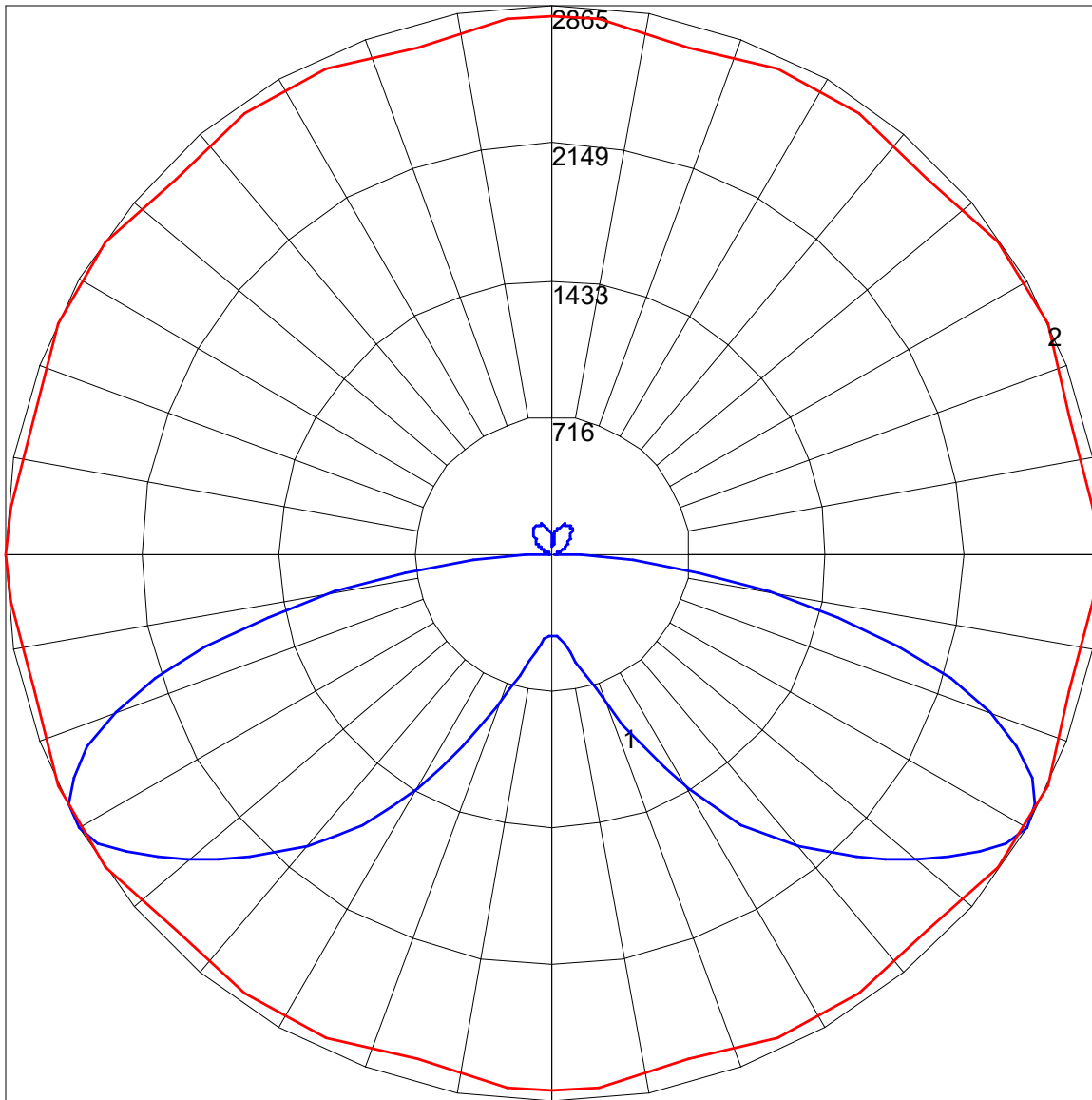
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	103	97	91	85	100	94	88	83	88	84	80	84	80	77	79	76	73	71
2	90	79	70	63	87	77	68	61	72	65	59	68	62	57	64	59	55	52
3	80	66	56	47	77	64	54	46	60	52	45	56	49	43	53	47	42	39
4	71	56	45	37	68	54	44	36	51	42	35	48	40	34	45	38	33	30
5	64	48	37	29	61	47	36	29	44	35	28	41	33	27	39	32	26	23
6	58	42	31	24	56	41	31	23	38	29	23	36	28	22	34	27	21	19
7	53	37	27	20	51	36	26	19	34	25	19	32	24	18	30	23	18	15
8	49	33	23	16	47	32	23	16	30	22	16	29	21	15	27	20	15	13
9	45	30	20	14	43	29	20	14	27	19	13	26	18	13	24	18	13	11
10	42	27	18	12	40	26	18	12	25	17	12	24	16	11	22	16	11	9

POLAR GRAPH



Maximum Candela = 2865 Located At Horizontal Angle = 0, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)