



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-10L-T5WU-40-70CRI.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11025

[TESTLAB] LSI INDUSTRIES, INC

[ISSUE DATE] 06/13/19

[TEST DATE] 04/29/19

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] EXN-EGLED-10L-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	10342
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	80
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	4.20
Spacing Criterion (90-270)	4.16
Spacing Criterion (Diagonal)	3.70
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	23888	23722	23473
55	31368	31199	31055
65	36455	35510	35810
75	30667	29623	30136
85	9872	9164	8870

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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>	393	393	393	393	393	393	393	393	393	393
<b>2.5</b>	394	395	394	394	395	395	395	395	394	394
<b>5.0</b>	408	409	409	408	409	409	409	409	409	408
<b>7.5</b>	434	435	435	436	435	434	434	434	434	434
<b>10.0</b>	471	472	473	475	473	471	471	471	470	471
<b>12.5</b>	522	524	525	527	526	523	521	521	520	521
<b>15.0</b>	588	592	593	593	592	591	586	586	585	587
<b>17.5</b>	674	675	674	674	673	671	668	665	667	666
<b>20.0</b>	770	770	769	769	767	764	761	760	759	758
<b>22.5</b>	886	880	878	879	877	872	875	868	865	865
<b>25.0</b>	1008	1002	1001	1001	1000	995	996	993	985	984
<b>27.5</b>	1139	1133	1133	1132	1129	1128	1129	1121	1114	1114
<b>30.0</b>	1275	1273	1270	1266	1263	1267	1262	1257	1255	1246
<b>32.5</b>	1414	1414	1411	1403	1403	1402	1397	1392	1388	1383
<b>35.0</b>	1549	1550	1547	1540	1538	1534	1530	1524	1517	1516
<b>37.5</b>	1677	1680	1675	1676	1673	1660	1658	1651	1642	1642
<b>40.0</b>	1795	1800	1797	1802	1792	1780	1777	1770	1760	1759
<b>42.5</b>	1907	1916	1913	1913	1906	1895	1888	1880	1872	1874
<b>45.0</b>	2015	2026	2022	2021	2014	2001	1994	1986	1979	1980
<b>47.5</b>	2122	2130	2124	2126	2119	2106	2098	2090	2080	2084
<b>50.0</b>	2228	2231	2224	2227	2221	2206	2207	2194	2183	2186
<b>52.5</b>	2324	2328	2321	2323	2317	2306	2303	2292	2282	2282
<b>55.0</b>	2405	2411	2405	2411	2405	2392	2385	2376	2368	2372
<b>57.5</b>	2470	2472	2465	2481	2476	2449	2445	2436	2426	2443
<b>60.0</b>	2504	2494	2483	2514	2507	2466	2469	2460	2444	2475
<b>62.5</b>	2494	2473	2454	2496	2489	2439	2450	2440	2417	2459
<b>65.0</b>	2430	2406	2383	2427	2420	2367	2384	2374	2348	2393
<b>67.5</b>	2317	2285	2263	2309	2303	2250	2270	2262	2232	2277
<b>70.0</b>	2139	2125	2103	2144	2139	2090	2096	2095	2071	2115
<b>72.5</b>	1930	1916	1897	1930	1927	1879	1885	1881	1861	1905
<b>75.0</b>	1675	1654	1647	1674	1674	1618	1636	1627	1603	1645
<b>77.5</b>	1383	1364	1353	1374	1371	1331	1347	1338	1316	1343
<b>80.0</b>	1060	1042	1031	1051	1039	1018	1028	1020	1005	1021
<b>82.5</b>	725	708	698	702	698	695	695	691	686	692
<b>85.0</b>	404	384	380	381	377	375	384	377	384	377
<b>87.5</b>	122	128	130	129	127	128	125	125	126	124
<b>90.0</b>	18	19	19	19	20	20	18	18	18	18
<b>92.5</b>	13	13	13	13	14	14	14	14	14	14
<b>95.0</b>	16	16	16	16	17	17	17	17	17	17
<b>97.5</b>	20	20	20	20	20	20	21	21	21	21
<b>100.0</b>	24	24	24	24	25	25	25	25	25	25
<b>102.5</b>	29	29	29	29	29	30	30	30	30	30
<b>105.0</b>	33	33	34	34	34	35	34	35	35	35
<b>107.5</b>	39	39	39	40	39	40	40	40	40	40
<b>110.0</b>	44	45	45	45	45	46	46	46	46	46
<b>112.5</b>	52	51	51	51	51	51	52	52	52	53
<b>115.0</b>	59	59	58	58	57	57	58	58	59	60
<b>117.5</b>	66	66	66	66	64	64	65	66	66	67
<b>120.0</b>	73	73	73	73	71	72	72	73	74	75
<b>122.5</b>	80	81	80	80	79	81	80	81	81	82
<b>125.0</b>	88	90	88	88	88	90	89	89	89	90
<b>127.5</b>	96	98	97	96	96	98	97	98	98	98
<b>130.0</b>	105	106	105	105	105	106	105	107	106	107
<b>132.5</b>	113	114	114	114	113	114	113	115	114	114

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**CANDELA TABULATION - (Cont.)**

135.0	122	122	123	123	122	122	121	121	121	122
137.5	130	131	131	131	131	129	128	130	131	131
140.0	138	139	139	138	139	136	134	139	138	140
142.5	145	145	144	145	145	144	142	146	145	149
145.0	146	149	148	152	148	148	149	152	152	156
147.5	152	150	150	154	155	153	152	155	159	155
150.0	151	148	149	153	152	151	150	159	160	154
152.5	150	150	145	149	151	153	159	161	158	154
155.0	149	147	143	143	143	146	150	153	156	152
157.5	149	151	144	142	141	151	145	150	152	154
160.0	152	147	137	138	142	148	141	142	147	144
162.5	141	141	133	134	137	140	137	136	140	139
165.0	132	134	128	136	137	136	128	130	133	131
167.5	117	114	124	122	124	126	122	116	115	116
170.0	112	112	109	106	106	110	102	106	104	106
172.5	98	100	103	105	103	95	92	98	97	93
175.0	90	92	93	83	87	74	72	73	81	82
177.5	56	53	57	52	51	51	52	56	59	57
180.0	43	43	43	43	43	43	43	43	43	43

**Vert. Horizontal Angles**

	<u>90</u>
0.0	393
2.5	394
5.0	409
7.5	435
10.0	472
12.5	522
15.0	586
17.5	665
20.0	758
22.5	865
25.0	984
27.5	1110
30.0	1240
32.5	1379
35.0	1513
37.5	1647
40.0	1764
42.5	1873
45.0	1980
47.5	2088
50.0	2195
52.5	2294
55.0	2381
57.5	2447
60.0	2471
62.5	2452
65.0	2387
67.5	2277
70.0	2115
72.5	1900
75.0	1646
77.5	1352
80.0	1015

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	667
<b>85.0</b>	363
<b>87.5</b>	122
<b>90.0</b>	19
<b>92.5</b>	14
<b>95.0</b>	17
<b>97.5</b>	20
<b>100.0</b>	25
<b>102.5</b>	30
<b>105.0</b>	35
<b>107.5</b>	40
<b>110.0</b>	46
<b>112.5</b>	53
<b>115.0</b>	60
<b>117.5</b>	68
<b>120.0</b>	75
<b>122.5</b>	81
<b>125.0</b>	89
<b>127.5</b>	98
<b>130.0</b>	106
<b>132.5</b>	114
<b>135.0</b>	123
<b>137.5</b>	131
<b>140.0</b>	140
<b>142.5</b>	149
<b>145.0</b>	156
<b>147.5</b>	158
<b>150.0</b>	154
<b>152.5</b>	153
<b>155.0</b>	155
<b>157.5</b>	151
<b>160.0</b>	146
<b>162.5</b>	138
<b>165.0</b>	131
<b>167.5</b>	117
<b>170.0</b>	105
<b>172.5</b>	93
<b>175.0</b>	89
<b>177.5</b>	55
<b>180.0</b>	43

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	215.40	N.A.	2.10
0-30	685.94	N.A.	6.60
0-40	1652.81	N.A.	16.00
0-60	5338.46	N.A.	51.60
0-80	9376.54	N.A.	90.70
0-90	9846.01	N.A.	95.20
10-90	9804.96	N.A.	94.80
20-40	1437.42	N.A.	13.90
20-50	2990.58	N.A.	28.90
40-70	6019.66	N.A.	58.20
60-80	4038.08	N.A.	39.00
70-80	1704.06	N.A.	16.50
80-90	469.47	N.A.	4.50
90-110	56.35	N.A.	0.50
90-120	114.39	N.A.	1.10
90-130	193.95	N.A.	1.90
90-150	381.27	N.A.	3.70
90-180	496.00	N.A.	4.80
110-180	439.66	N.A.	4.30
0-180	10342.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	41.04
10-20	174.36
20-30	470.54
30-40	966.87
40-50	1553.16
50-60	2132.49
60-70	2334.02
70-80	1704.06
80-90	469.47
90-100	19.76
100-110	36.59
110-120	58.04
120-130	79.56
130-140	94.13
140-150	93.19
150-160	69.25
160-170	37.00
170-180	8.48

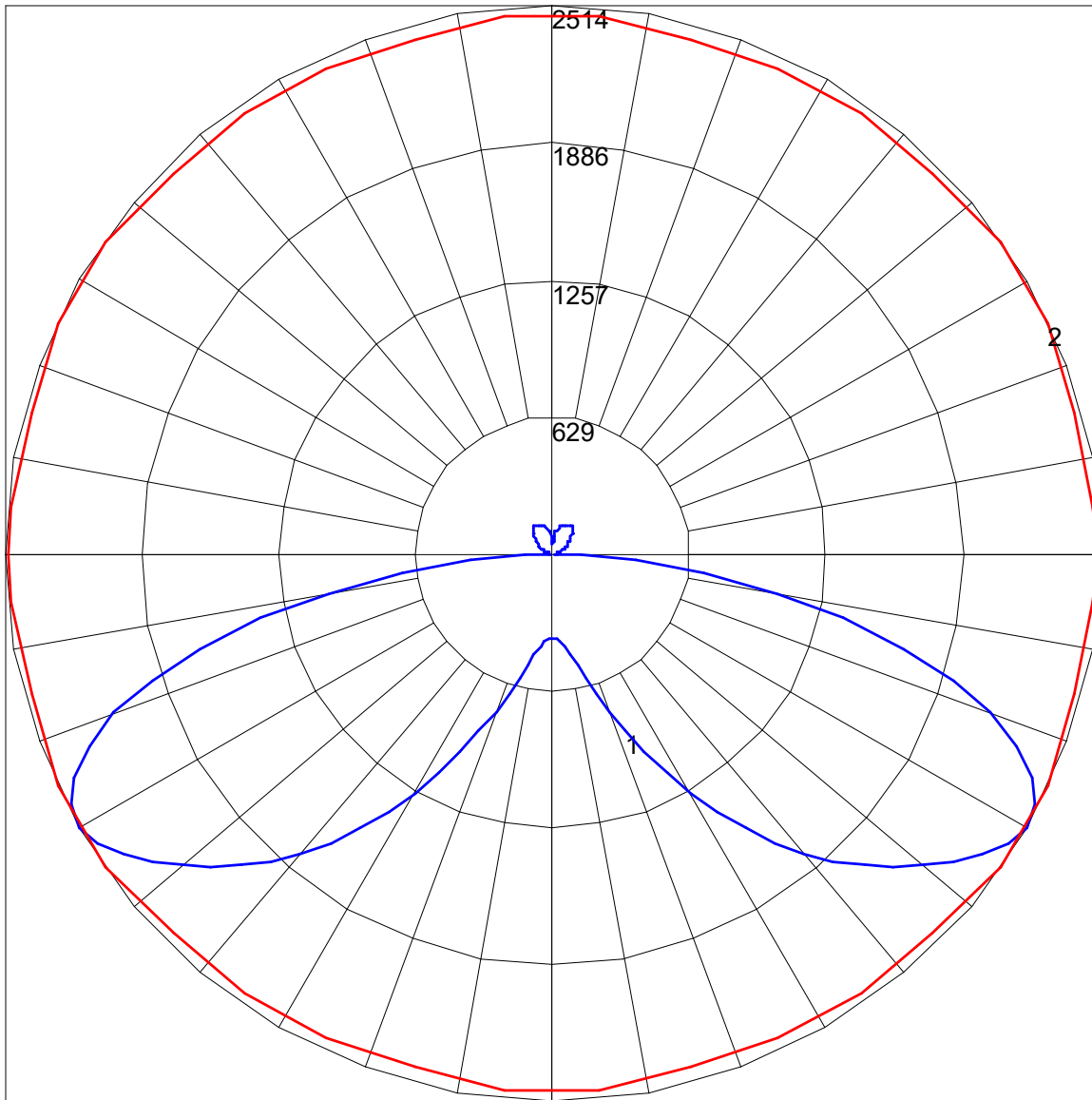
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	76	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	44	29	20	14	27	19	13	26	18	13	24	18	13	11
10	42	27	18	12	41	26	18	12	25	17	12	24	16	11	22	16	11	9

POLAR GRAPH



Maximum Candela = 2514 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.)