



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-06L-T5WU-40-70CRI.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11027

[TESTLAB] LSI INDUSTRIES, INC

[ISSUE DATE] 06/13/19

[TEST DATE] 04/29/19

[MANUFACT] LSI INDUSTRIES, INC

[LUMCAT] EXN-EGLED-06L-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	6477
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	47
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	4.14
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	15032	14937	14795
55	19499	19538	19525
65	22323	22428	22578
75	18803	18766	18894
85	6060	5694	5669

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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>	248	248	248	248	248	248	248	248	248	248
<b>2.5</b>	249	249	249	249	249	249	249	249	249	249
<b>5.0</b>	258	258	259	259	258	258	258	258	258	258
<b>7.5</b>	274	274	274	275	274	274	273	273	273	274
<b>10.0</b>	297	298	299	299	299	297	297	296	297	297
<b>12.5</b>	329	330	331	331	331	330	328	327	330	330
<b>15.0</b>	370	372	373	373	373	371	370	371	371	371
<b>17.5</b>	421	424	424	423	423	422	422	422	420	419
<b>20.0</b>	487	485	483	483	482	482	482	483	478	478
<b>22.5</b>	556	553	552	551	551	550	552	550	547	545
<b>25.0</b>	632	632	630	628	628	628	627	625	624	620
<b>27.5</b>	715	715	715	710	711	711	709	706	705	702
<b>30.0</b>	801	801	800	794	795	795	793	790	788	785
<b>32.5</b>	887	886	885	883	882	880	877	874	872	871
<b>35.0</b>	970	970	970	968	966	964	959	956	955	954
<b>37.5</b>	1051	1050	1050	1052	1046	1044	1038	1034	1034	1032
<b>40.0</b>	1126	1125	1130	1126	1122	1119	1113	1108	1109	1107
<b>42.5</b>	1198	1196	1201	1196	1194	1193	1182	1177	1182	1178
<b>45.0</b>	1268	1265	1268	1265	1263	1260	1248	1244	1248	1246
<b>47.5</b>	1332	1329	1331	1334	1331	1324	1314	1313	1311	1314
<b>50.0</b>	1394	1390	1393	1400	1398	1385	1379	1375	1374	1380
<b>52.5</b>	1448	1449	1453	1463	1459	1445	1435	1431	1435	1443
<b>55.0</b>	1495	1496	1507	1518	1516	1498	1482	1478	1488	1499
<b>57.5</b>	1530	1531	1547	1562	1560	1539	1517	1513	1528	1541
<b>60.0</b>	1546	1546	1564	1578	1575	1556	1533	1530	1545	1558
<b>62.5</b>	1532	1536	1549	1561	1557	1541	1523	1520	1531	1543
<b>65.0</b>	1488	1495	1504	1515	1511	1495	1484	1480	1486	1498
<b>67.5</b>	1410	1421	1430	1442	1439	1422	1409	1403	1413	1427
<b>70.0</b>	1304	1317	1326	1338	1334	1317	1302	1296	1310	1324
<b>72.5</b>	1179	1184	1197	1205	1203	1186	1169	1166	1176	1192
<b>75.0</b>	1027	1024	1033	1044	1041	1025	1012	1010	1016	1031
<b>77.5</b>	849	844	852	840	846	840	833	831	836	836
<b>80.0</b>	650	647	646	638	639	640	637	635	636	628
<b>82.5</b>	444	443	434	431	427	435	435	433	422	417
<b>85.0</b>	248	238	239	236	233	233	233	237	231	228
<b>87.5</b>	75	81	81	80	79	79	80	76	79	78
<b>90.0</b>	12	12	12	12	13	13	13	13	13	13
<b>92.5</b>	8	8	8	8	9	9	9	9	9	9
<b>95.0</b>	10	10	10	10	11	11	11	11	11	11
<b>97.5</b>	12	12	13	13	13	13	13	13	13	13
<b>100.0</b>	15	15	15	15	16	15	16	16	16	16
<b>102.5</b>	18	18	18	18	19	19	19	19	19	19
<b>105.0</b>	21	21	21	21	22	22	22	22	22	22
<b>107.5</b>	24	24	24	24	25	25	25	25	25	25
<b>110.0</b>	28	28	28	28	28	29	29	29	29	29
<b>112.5</b>	32	32	32	32	32	32	33	33	33	33
<b>115.0</b>	37	37	37	36	36	36	36	36	37	38
<b>117.5</b>	41	41	41	41	40	41	41	41	42	42
<b>120.0</b>	46	46	45	46	45	46	45	46	46	47
<b>122.5</b>	51	51	50	51	50	52	51	51	51	51
<b>125.0</b>	56	55	55	56	55	57	56	56	56	56
<b>127.5</b>	61	60	60	62	60	62	60	62	61	61
<b>130.0</b>	66	65	65	67	66	68	65	67	65	67
<b>132.5</b>	71	70	70	73	71	73	70	72	71	72

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**CANDELA TABULATION - (Cont.)**

135.0	77	75	75	78	76	78	75	77	76	78
137.5	83	80	80	82	80	83	80	82	82	83
140.0	87	86	85	87	86	87	83	88	87	88
142.5	95	91	89	90	87	91	89	93	90	92
145.0	94	93	91	93	89	94	93	96	95	98
147.5	96	95	90	96	93	96	93	96	100	98
150.0	95	95	91	94	94	96	96	97	101	97
152.5	95	95	92	91	95	96	99	100	98	98
155.0	96	92	87	87	94	94	93	95	97	96
157.5	95	94	88	86	93	94	91	91	93	94
160.0	94	90	86	83	93	94	88	89	93	90
162.5	83	84	83	82	91	90	84	84	86	84
165.0	81	80	75	79	89	89	83	82	80	82
167.5	64	68	70	78	82	80	78	78	75	73
170.0	64	66	69	63	69	65	65	67	67	68
172.5	59	59	63	62	63	58	54	56	59	62
175.0	58	57	53	49	50	52	55	52	53	53
177.5	34	31	29	34	30	34	33	36	34	35
180.0	22	22	22	22	22	22	22	22	22	22

**Vert. Angles**      **Horizontal Angles**

	<u>90</u>
0.0	248
2.5	249
5.0	259
7.5	274
10.0	298
12.5	330
15.0	370
17.5	420
20.0	479
22.5	546
25.0	620
27.5	699
30.0	782
32.5	865
35.0	953
37.5	1037
40.0	1113
42.5	1181
45.0	1248
47.5	1312
50.0	1377
52.5	1438
55.0	1497
57.5	1543
60.0	1564
62.5	1549
65.0	1505
67.5	1433
70.0	1329
72.5	1195
75.0	1032
77.5	849
80.0	626

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	<b>422</b>
<b>85.0</b>	<b>232</b>
<b>87.5</b>	<b>80</b>
<b>90.0</b>	<b>13</b>
<b>92.5</b>	<b>9</b>
<b>95.0</b>	<b>11</b>
<b>97.5</b>	<b>13</b>
<b>100.0</b>	<b>16</b>
<b>102.5</b>	<b>19</b>
<b>105.0</b>	<b>22</b>
<b>107.5</b>	<b>25</b>
<b>110.0</b>	<b>29</b>
<b>112.5</b>	<b>33</b>
<b>115.0</b>	<b>38</b>
<b>117.5</b>	<b>42</b>
<b>120.0</b>	<b>47</b>
<b>122.5</b>	<b>52</b>
<b>125.0</b>	<b>57</b>
<b>127.5</b>	<b>62</b>
<b>130.0</b>	<b>68</b>
<b>132.5</b>	<b>74</b>
<b>135.0</b>	<b>79</b>
<b>137.5</b>	<b>84</b>
<b>140.0</b>	<b>88</b>
<b>142.5</b>	<b>95</b>
<b>145.0</b>	<b>99</b>
<b>147.5</b>	<b>99</b>
<b>150.0</b>	<b>95</b>
<b>152.5</b>	<b>97</b>
<b>155.0</b>	<b>96</b>
<b>157.5</b>	<b>94</b>
<b>160.0</b>	<b>89</b>
<b>162.5</b>	<b>83</b>
<b>165.0</b>	<b>84</b>
<b>167.5</b>	<b>75</b>
<b>170.0</b>	<b>68</b>
<b>172.5</b>	<b>60</b>
<b>175.0</b>	<b>54</b>
<b>177.5</b>	<b>36</b>
<b>180.0</b>	<b>22</b>

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	135.78	N.A.	2.10
0-30	432.10	N.A.	6.70
0-40	1039.02	N.A.	16.00
0-60	3350.03	N.A.	51.70
0-80	5875.06	N.A.	90.70
0-90	6166.11	N.A.	95.20
10-90	6140.22	N.A.	94.80
20-40	903.24	N.A.	13.90
20-50	1877.94	N.A.	29.00
40-70	3772.5	N.A.	58.20
60-80	2525.03	N.A.	39.00
70-80	1063.54	N.A.	16.40
80-90	291.04	N.A.	4.50
90-110	35.61	N.A.	0.50
90-120	72.04	N.A.	1.10
90-130	122.04	N.A.	1.90
90-150	239.04	N.A.	3.70
90-180	310.62	N.A.	4.80
110-180	275.01	N.A.	4.20
0-180	6476.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	25.89
10-20	109.89
20-30	296.32
30-40	606.93
40-50	974.70
50-60	1336.31
60-70	1461.49
70-80	1063.54
80-90	291.04
90-100	12.63
100-110	22.98
110-120	36.44
120-130	49.99
130-140	58.97
140-150	58.04
150-160	43.27
160-170	23.08
170-180	5.23

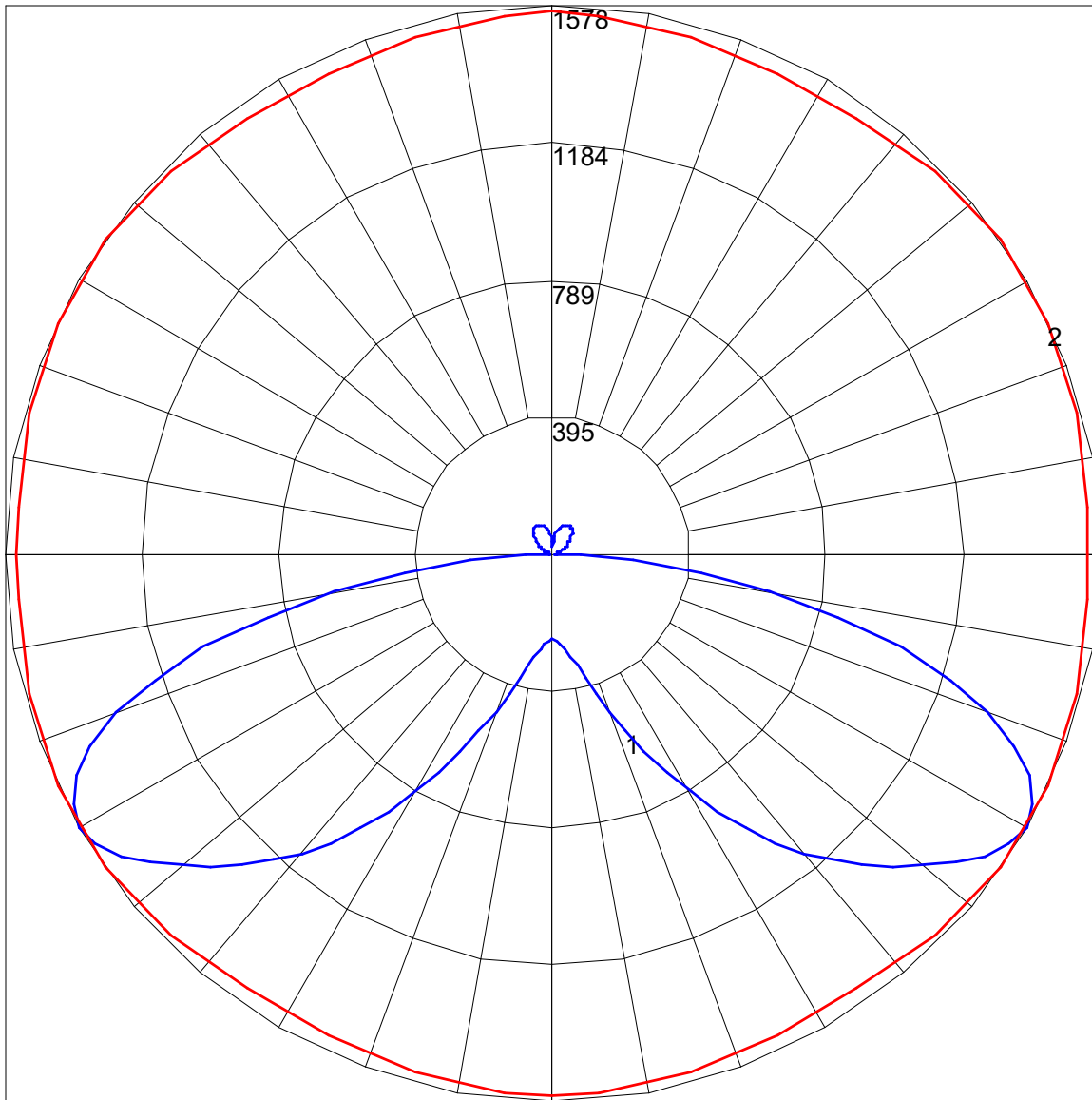
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	69	61	72	65	59	68	62	57	64	59	55	52
3	80	66	56	47	77	64	54	46	60	52	45	57	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	24
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	17	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	14	26	19	13	25	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 = 1578 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.)