



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-05L-T5WU-40-70CRI.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11028  
[TESTLAB] LSI INDUSTRIES, INC  
[ISSUE DATE] 06/13/19  
[TEST DATE] 04/29/19  
[MANUFACTURER] LSI INDUSTRIES, INC  
[LUMCAT] EXN-EGLED-05L-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	5424
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	39
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	12578	12542	12412
55	16343	16382	16356
65	18662	18738	18873
75	15709	15672	15837
85	4887	4814	4790

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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>	209	209	209	209	209	209	209	209	209	209
<b>2.5</b>	209	210	209	210	209	209	209	209	209	209
<b>5.0</b>	217	217	217	218	217	217	217	217	216	217
<b>7.5</b>	230	230	231	231	231	230	230	230	230	230
<b>10.0</b>	250	250	251	252	251	250	249	249	250	250
<b>12.5</b>	277	277	279	279	279	278	277	276	277	277
<b>15.0</b>	312	313	314	314	314	313	311	310	312	311
<b>17.5</b>	355	357	357	356	356	356	355	353	353	353
<b>20.0</b>	407	407	406	406	405	405	405	405	403	402
<b>22.5</b>	467	467	464	463	462	462	462	463	458	458
<b>25.0</b>	532	531	528	528	529	527	527	526	523	521
<b>27.5</b>	601	600	599	596	597	597	596	594	592	589
<b>30.0</b>	673	672	672	667	669	668	667	664	663	659
<b>32.5</b>	745	744	743	740	740	739	737	735	733	731
<b>35.0</b>	815	814	814	813	811	810	806	804	802	801
<b>37.5</b>	882	881	882	883	877	877	872	869	869	868
<b>40.0</b>	945	944	947	945	941	940	934	932	932	931
<b>42.5</b>	1005	1003	1008	1003	1001	999	992	989	992	989
<b>45.0</b>	1061	1060	1064	1061	1060	1058	1050	1044	1049	1046
<b>47.5</b>	1118	1115	1117	1118	1116	1111	1103	1101	1102	1103
<b>50.0</b>	1168	1166	1168	1173	1171	1162	1155	1154	1153	1158
<b>52.5</b>	1214	1214	1217	1225	1224	1211	1204	1201	1202	1210
<b>55.0</b>	1253	1253	1262	1271	1272	1256	1243	1239	1247	1256
<b>57.5</b>	1282	1281	1295	1305	1304	1288	1271	1268	1280	1291
<b>60.0</b>	1294	1293	1308	1318	1315	1301	1283	1280	1292	1303
<b>62.5</b>	1281	1283	1296	1303	1301	1289	1274	1270	1281	1290
<b>65.0</b>	1244	1249	1257	1265	1262	1249	1239	1236	1242	1253
<b>67.5</b>	1175	1185	1193	1203	1201	1187	1177	1173	1180	1192
<b>70.0</b>	1090	1097	1107	1117	1115	1100	1088	1083	1095	1107
<b>72.5</b>	985	985	999	1005	1004	989	977	974	984	996
<b>75.0</b>	858	855	865	871	866	856	847	845	850	863
<b>77.5</b>	710	706	710	716	708	706	697	695	700	705
<b>80.0</b>	544	542	542	535	539	535	534	532	534	523
<b>82.5</b>	371	366	365	357	357	359	364	363	355	352
<b>85.0</b>	200	199	197	194	195	197	200	200	195	193
<b>87.5</b>	62	67	66	65	66	68	66	66	68	67
<b>90.0</b>	6	7	7	7	8	8	8	8	9	9
<b>92.5</b>	7	7	7	7	7	7	7	7	7	7
<b>95.0</b>	8	9	8	9	9	9	9	9	9	9
<b>97.5</b>	10	10	11	11	11	11	11	11	11	11
<b>100.0</b>	13	13	13	13	13	13	13	13	13	13
<b>102.5</b>	15	15	15	15	16	16	16	16	16	16
<b>105.0</b>	18	18	18	18	18	18	18	18	18	18
<b>107.5</b>	20	20	20	21	21	21	21	21	21	21
<b>110.0</b>	23	23	23	23	24	24	24	24	24	24
<b>112.5</b>	27	27	27	27	27	27	27	27	27	28
<b>115.0</b>	31	31	31	30	30	30	30	30	31	31
<b>117.5</b>	34	35	35	34	33	34	34	34	35	35
<b>120.0</b>	38	38	39	38	37	39	38	39	39	39
<b>122.5</b>	43	43	42	42	41	43	42	43	43	43
<b>125.0</b>	47	47	46	47	46	48	47	47	47	47
<b>127.5</b>	51	51	50	52	50	52	51	52	51	51
<b>130.0</b>	55	55	54	56	55	56	54	56	55	55
<b>132.5</b>	59	59	59	61	59	61	58	61	59	60

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**CANDELA TABULATION - (Cont.)**

135.0	64	63	63	66	64	65	63	65	63	65
137.5	69	67	67	69	67	69	67	69	68	69
140.0	72	71	71	74	72	73	70	74	73	73
142.5	78	75	75	76	74	76	75	78	76	77
145.0	78	77	76	78	76	79	78	81	79	82
147.5	80	79	75	80	78	81	79	80	84	82
150.0	79	79	75	79	79	81	81	81	85	82
152.5	79	80	76	76	79	80	84	84	82	82
155.0	80	77	72	74	79	78	79	79	82	81
157.5	78	78	72	73	78	79	77	76	78	79
160.0	78	75	70	70	78	79	74	75	78	76
162.5	69	70	69	69	76	76	71	72	73	70
165.0	68	67	63	68	75	75	69	69	68	69
167.5	54	57	58	66	70	67	66	66	64	62
170.0	53	56	58	53	58	55	54	57	58	58
172.5	50	51	53	53	55	49	47	47	50	52
175.0	48	48	44	40	42	43	45	43	43	43
177.5	28	25	24	28	25	29	28	30	30	30
180.0	18	18	18	18	18	18	18	18	18	18

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

	<u>90</u>
0.0	209
2.5	209
5.0	217
7.5	231
10.0	251
12.5	277
15.0	311
17.5	353
20.0	402
22.5	458
25.0	521
27.5	588
30.0	657
32.5	726
35.0	800
37.5	871
40.0	934
42.5	992
45.0	1047
47.5	1101
50.0	1154
52.5	1206
55.0	1254
57.5	1292
60.0	1307
62.5	1295
65.0	1258
67.5	1198
70.0	1112
72.5	1000
75.0	865
77.5	712
80.0	526

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	<b>355</b>
<b>85.0</b>	<b>196</b>
<b>87.5</b>	<b>69</b>
<b>90.0</b>	<b>9</b>
<b>92.5</b>	<b>7</b>
<b>95.0</b>	<b>9</b>
<b>97.5</b>	<b>11</b>
<b>100.0</b>	<b>13</b>
<b>102.5</b>	<b>16</b>
<b>105.0</b>	<b>18</b>
<b>107.5</b>	<b>21</b>
<b>110.0</b>	<b>24</b>
<b>112.5</b>	<b>28</b>
<b>115.0</b>	<b>32</b>
<b>117.5</b>	<b>35</b>
<b>120.0</b>	<b>39</b>
<b>122.5</b>	<b>43</b>
<b>125.0</b>	<b>48</b>
<b>127.5</b>	<b>52</b>
<b>130.0</b>	<b>57</b>
<b>132.5</b>	<b>62</b>
<b>135.0</b>	<b>66</b>
<b>137.5</b>	<b>70</b>
<b>140.0</b>	<b>74</b>
<b>142.5</b>	<b>80</b>
<b>145.0</b>	<b>83</b>
<b>147.5</b>	<b>83</b>
<b>150.0</b>	<b>79</b>
<b>152.5</b>	<b>81</b>
<b>155.0</b>	<b>80</b>
<b>157.5</b>	<b>78</b>
<b>160.0</b>	<b>74</b>
<b>162.5</b>	<b>70</b>
<b>165.0</b>	<b>71</b>
<b>167.5</b>	<b>64</b>
<b>170.0</b>	<b>59</b>
<b>172.5</b>	<b>50</b>
<b>175.0</b>	<b>42</b>
<b>177.5</b>	<b>31</b>
<b>180.0</b>	<b>18</b>

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	114.19	N.A.	2.10
0-30	363.10	N.A.	6.70
0-40	872.83	N.A.	16.10
0-60	2810.04	N.A.	51.80
0-80	4920.58	N.A.	90.70
0-90	5163.92	N.A.	95.20
10-90	5142.15	N.A.	94.80
20-40	758.63	N.A.	14.00
20-50	1576.52	N.A.	29.10
40-70	3158.3	N.A.	58.20
60-80	2110.54	N.A.	38.90
70-80	889.45	N.A.	16.40
80-90	243.34	N.A.	4.50
90-110	29.34	N.A.	0.50
90-120	59.76	N.A.	1.10
90-130	101.62	N.A.	1.90
90-150	199.63	N.A.	3.70
90-180	259.72	N.A.	4.80
110-180	230.37	N.A.	4.20
0-180	5423.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	21.77
10-20	92.42
20-30	248.91
30-40	509.72
40-50	817.88
50-60	1119.33
60-70	1221.08
70-80	889.45
80-90	243.34
90-100	10.13
100-110	19.21
110-120	30.42
120-130	41.87
130-140	49.34
140-150	48.68
150-160	36.24
160-170	19.43
170-180	4.41

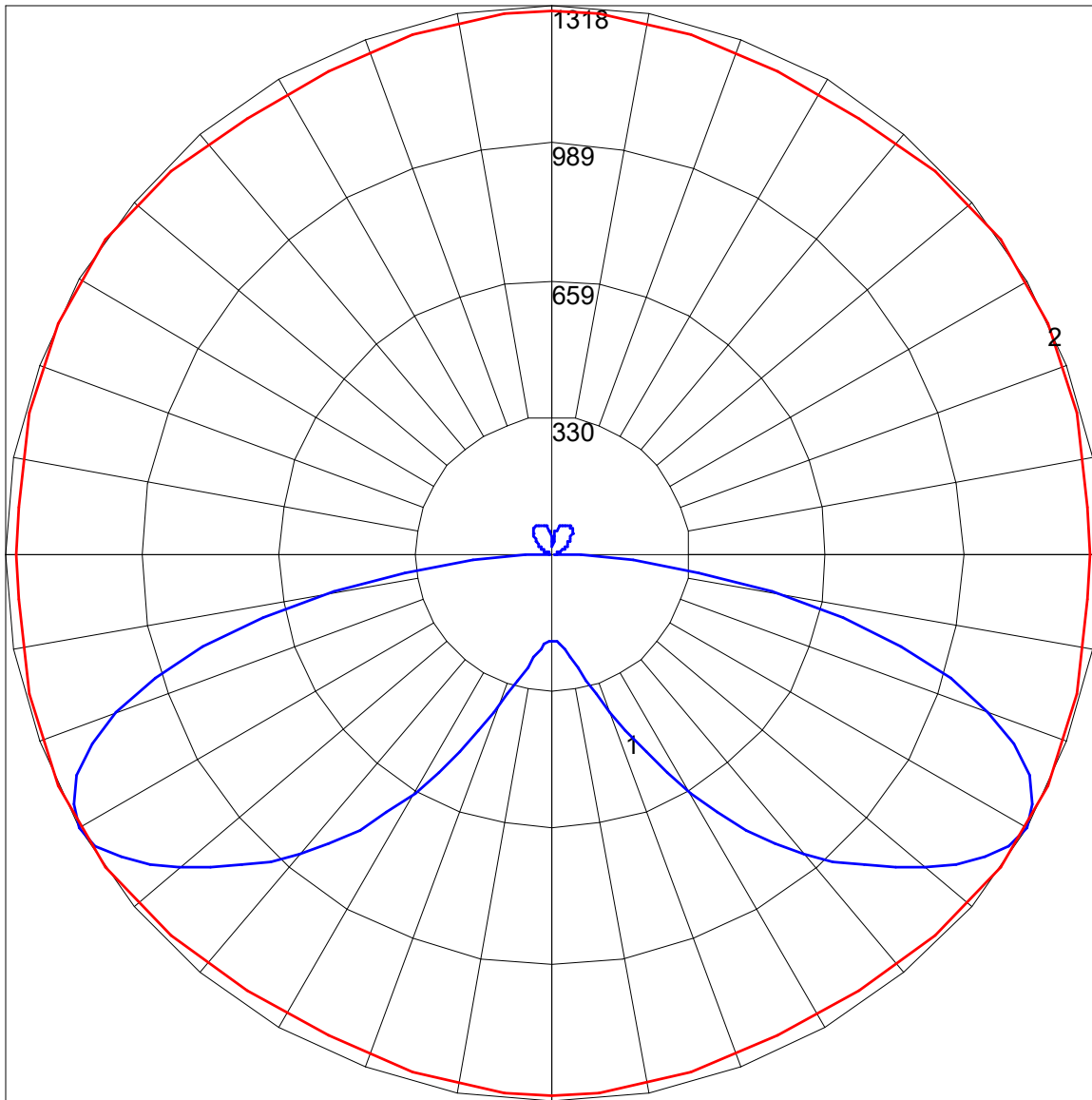
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	84	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	37	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	21	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 = 1318 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.)