



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-10L-T5NU-40-70CRI.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11038  
[TESTLAB] LSI INDUSTRIES, INC  
[ISSUE DATE] 06/13/19  
[TEST DATE] 05/01/19  
[MANUFACT] LSI INDUSTRIES, INC  
[LUMCAT] EXN-EGLED-10L-T5NU-40-70CRI  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[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	10538
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	80
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.18
Spacing Criterion (90-270)	2.18
Spacing Criterion (Diagonal)	2.14
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	28298	28120	28049
55	29451	29164	29007
65	27349	27019	27019
75	20670	20560	20322
85	6549	6793	6720

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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>	1477	1477	1477	1477	1477	1477	1477	1477	1477	1477
<b>2.5</b>	1480	1480	1480	1480	1480	1480	1480	1480	1480	1484
<b>5.0</b>	1493	1496	1496	1496	1496	1496	1496	1496	1496	1499
<b>7.5</b>	1524	1521	1521	1524	1524	1524	1521	1524	1524	1524
<b>10.0</b>	1564	1561	1561	1561	1561	1561	1561	1561	1561	1561
<b>12.5</b>	1610	1610	1607	1610	1607	1610	1610	1610	1610	1610
<b>15.0</b>	1675	1672	1672	1672	1669	1672	1672	1675	1672	1672
<b>17.5</b>	1740	1740	1736	1736	1736	1736	1740	1740	1736	1736
<b>20.0</b>	1814	1817	1817	1814	1814	1817	1814	1814	1810	1810
<b>22.5</b>	1897	1897	1897	1894	1897	1894	1894	1894	1894	1894
<b>25.0</b>	1980	1980	1980	1974	1977	1977	1977	1977	1977	1974
<b>27.5</b>	2060	2063	2063	2060	2060	2057	2054	2054	2057	2057
<b>30.0</b>	2137	2137	2137	2137	2134	2131	2131	2131	2131	2128
<b>32.5</b>	2208	2208	2208	2208	2205	2202	2199	2199	2196	2199
<b>35.0</b>	2270	2267	2267	2267	2264	2261	2258	2258	2258	2258
<b>37.5</b>	2319	2316	2316	2313	2310	2307	2304	2304	2301	2301
<b>40.0</b>	2353	2353	2353	2350	2347	2344	2338	2338	2338	2338
<b>42.5</b>	2378	2378	2375	2372	2369	2366	2363	2359	2359	2356
<b>45.0</b>	2387	2387	2384	2381	2375	2372	2369	2366	2369	2366
<b>47.5</b>	2381	2381	2378	2372	2366	2363	2363	2359	2359	2356
<b>50.0</b>	2356	2356	2353	2347	2341	2338	2335	2332	2332	2332
<b>52.5</b>	2316	2313	2310	2304	2298	2295	2295	2292	2289	2289
<b>55.0</b>	2258	2255	2248	2242	2236	2236	2233	2233	2230	2227
<b>57.5</b>	2181	2178	2168	2156	2153	2153	2156	2153	2153	2144
<b>60.0</b>	2085	2079	2070	2060	2054	2054	2057	2057	2054	2048
<b>62.5</b>	1955	1955	1952	1943	1937	1937	1934	1934	1934	1931
<b>65.0</b>	1823	1823	1817	1810	1804	1801	1798	1798	1798	1798
<b>67.5</b>	1675	1672	1666	1659	1653	1650	1647	1644	1650	1650
<b>70.0</b>	1505	1502	1499	1490	1487	1480	1484	1480	1480	1484
<b>72.5</b>	1323	1326	1323	1314	1302	1308	1308	1308	1302	1298
<b>75.0</b>	1129	1135	1132	1113	1107	1123	1120	1120	1117	1104
<b>77.5</b>	916	925	922	904	901	913	919	916	916	898
<b>80.0</b>	694	706	703	694	691	700	703	706	700	688
<b>82.5</b>	472	487	484	481	478	484	478	487	481	475
<b>85.0</b>	268	281	278	275	275	278	271	271	275	275
<b>87.5</b>	96	99	102	102	102	102	99	99	102	105
<b>90.0</b>	12	12	12	15	15	15	15	19	19	19
<b>92.5</b>	12	12	12	12	12	12	12	12	12	12
<b>95.0</b>	15	15	15	15	15	15	15	15	15	19
<b>97.5</b>	19	22	19	22	19	19	19	19	22	22
<b>100.0</b>	25	25	25	25	25	25	25	25	25	25
<b>102.5</b>	28	28	28	28	28	28	28	28	28	28
<b>105.0</b>	34	34	34	34	34	34	34	34	34	34
<b>107.5</b>	37	40	40	37	37	37	37	37	40	40
<b>110.0</b>	43	43	43	43	43	43	43	43	43	43
<b>112.5</b>	49	49	49	49	49	49	49	49	49	49
<b>115.0</b>	56	56	56	56	59	59	59	56	56	56
<b>117.5</b>	62	62	62	65	65	65	65	65	62	65
<b>120.0</b>	71	71	68	71	71	71	71	71	71	71
<b>122.5</b>	80	77	77	77	77	80	77	77	77	77
<b>125.0</b>	89	86	83	86	86	86	86	86	86	86
<b>127.5</b>	96	96	93	96	93	96	96	96	93	96
<b>130.0</b>	105	105	102	102	102	105	102	105	102	102
<b>132.5</b>	114	111	108	111	108	111	108	111	108	111

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**CANDELA TABULATION - (Cont.)**

135.0	123	120	120	120	117	123	117	120	117	117
137.5	133	130	126	130	123	130	126	126	123	123
140.0	139	136	133	136	126	139	136	139	133	130
142.5	145	145	142	145	136	145	142	142	133	133
145.0	148	148	148	151	142	151	145	142	139	136
147.5	160	154	154	157	145	151	145	142	139	139
150.0	167	163	160	154	148	148	145	142	139	139
152.5	170	167	160	151	145	145	145	142	142	136
155.0	154	154	148	139	139	145	139	142	139	136
157.5	139	139	136	136	136	142	142	142	145	136
160.0	130	130	126	126	136	136	139	139	145	139
162.5	126	126	126	123	123	130	133	133	139	142
165.0	120	120	114	114	117	120	126	126	136	145
167.5	114	114	111	114	108	114	111	117	136	145
170.0	102	105	105	105	105	96	99	102	117	120
172.5	93	93	96	93	93	86	93	99	105	108
175.0	80	77	80	83	83	77	86	80	86	83
177.5	56	52	52	56	46	52	56	59	56	52
180.0	43	43	43	43	43	43	43	43	43	43

**Vert. Horizontal Angles**

	<b>90</b>
0.0	1477
2.5	1480
5.0	1499
7.5	1524
10.0	1561
12.5	1610
15.0	1669
17.5	1736
20.0	1807
22.5	1894
25.0	1974
27.5	2057
30.0	2131
32.5	2199
35.0	2258
37.5	2304
40.0	2338
42.5	2356
45.0	2366
47.5	2356
50.0	2332
52.5	2289
55.0	2224
57.5	2147
60.0	2048
62.5	1934
65.0	1801
67.5	1650
70.0	1487
72.5	1305
75.0	1110
77.5	910
80.0	697

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	<b>481</b>
<b>85.0</b>	<b>275</b>
<b>87.5</b>	<b>105</b>
<b>90.0</b>	<b>22</b>
<b>92.5</b>	<b>12</b>
<b>95.0</b>	<b>15</b>
<b>97.5</b>	<b>19</b>
<b>100.0</b>	<b>25</b>
<b>102.5</b>	<b>28</b>
<b>105.0</b>	<b>34</b>
<b>107.5</b>	<b>40</b>
<b>110.0</b>	<b>43</b>
<b>112.5</b>	<b>49</b>
<b>115.0</b>	<b>56</b>
<b>117.5</b>	<b>62</b>
<b>120.0</b>	<b>71</b>
<b>122.5</b>	<b>80</b>
<b>125.0</b>	<b>86</b>
<b>127.5</b>	<b>96</b>
<b>130.0</b>	<b>105</b>
<b>132.5</b>	<b>111</b>
<b>135.0</b>	<b>120</b>
<b>137.5</b>	<b>123</b>
<b>140.0</b>	<b>136</b>
<b>142.5</b>	<b>136</b>
<b>145.0</b>	<b>136</b>
<b>147.5</b>	<b>136</b>
<b>150.0</b>	<b>136</b>
<b>152.5</b>	<b>136</b>
<b>155.0</b>	<b>133</b>
<b>157.5</b>	<b>136</b>
<b>160.0</b>	<b>139</b>
<b>162.5</b>	<b>136</b>
<b>165.0</b>	<b>148</b>
<b>167.5</b>	<b>139</b>
<b>170.0</b>	<b>130</b>
<b>172.5</b>	<b>102</b>
<b>175.0</b>	<b>83</b>
<b>177.5</b>	<b>62</b>
<b>180.0</b>	<b>43</b>

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	623.80	N.A.	5.90
0-30	1542.76	N.A.	14.60
0-40	2960.62	N.A.	28.10
0-60	6782.45	N.A.	64.40
0-80	9728.79	N.A.	92.30
0-90	10059.27	N.A.	95.50
10-90	9914.38	N.A.	94.10
20-40	2336.82	N.A.	22.20
20-50	4166.33	N.A.	39.50
40-70	5598.28	N.A.	53.10
60-80	2946.34	N.A.	28.00
70-80	1169.9	N.A.	11.10
80-90	330.48	N.A.	3.10
90-110	53.93	N.A.	0.50
90-120	110.02	N.A.	1.00
90-130	187.14	N.A.	1.80
90-150	368.58	N.A.	3.50
90-180	478.71	N.A.	4.50
110-180	424.78	N.A.	4.00
0-180	10537.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	144.89
10-20	478.91
20-30	918.96
30-40	1417.86
40-50	1829.51
50-60	1992.32
60-70	1776.44
70-80	1169.9
80-90	330.48
90-100	18.50
100-110	35.43
110-120	56.09
120-130	77.12
130-140	91.45
140-150	89.99
150-160	66.36
160-170	35.40
170-180	8.38

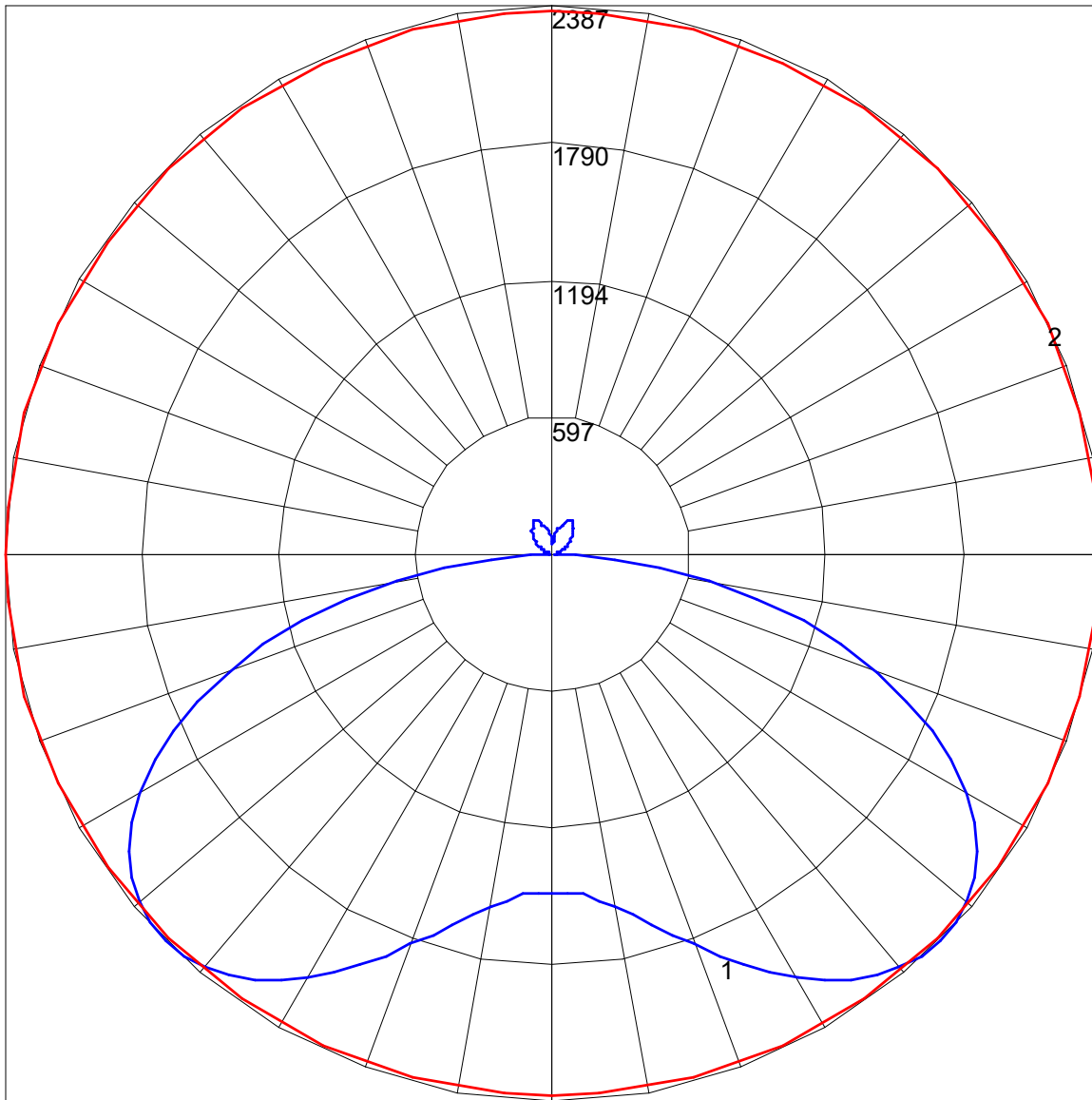
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	109	109	109	103	103	103	98	98	98	95
1	106	100	95	90	102	97	92	88	92	88	85	87	84	81	83	80	78	75
2	94	84	77	70	91	82	75	69	78	72	66	74	69	64	70	66	62	59
3	84	72	63	55	81	70	62	55	67	59	53	63	57	51	60	54	50	47
4	76	63	53	45	73	61	52	44	58	50	43	55	48	42	52	46	41	38
5	69	55	45	37	67	53	44	37	51	42	36	48	41	35	46	39	34	32
6	63	49	39	32	61	47	38	31	45	37	30	43	35	30	41	34	29	27
7	58	43	34	27	56	42	33	27	40	32	26	38	31	26	37	30	25	23
8	54	39	30	23	52	38	29	23	36	28	23	35	28	22	33	27	22	20
9	50	35	27	21	48	35	26	20	33	25	20	32	25	20	30	24	19	17
10	47	32	24	18	45	32	24	18	30	23	18	29	22	17	28	22	17	15

POLAR GRAPH



Maximum Candela = 2387 Located At Horizontal Angle = 0, Vertical Angle = 45  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)