



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-08L-T5NU-50-70CRI.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

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] EXN-EGLED-08L-T5NU-50-70CRI

[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	8689
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	64
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	23330	23188	23129
55	24286	24051	23921
65	22548	22278	22278
75	17045	16954	16770
85	5400	5596	5523

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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>	1218	1218	1218	1218	1218	1218	1218	1218	1218	1218
<b>2.5</b>	1221	1221	1221	1221	1221	1221	1221	1221	1221	1223
<b>5.0</b>	1231	1233	1233	1233	1233	1233	1233	1233	1233	1236
<b>7.5</b>	1256	1254	1254	1256	1256	1256	1254	1256	1256	1256
<b>10.0</b>	1289	1287	1287	1287	1287	1287	1287	1287	1287	1287
<b>12.5</b>	1328	1328	1325	1328	1325	1328	1328	1328	1328	1328
<b>15.0</b>	1381	1378	1378	1378	1376	1378	1378	1381	1378	1378
<b>17.5</b>	1434	1434	1432	1432	1432	1432	1434	1434	1432	1432
<b>20.0</b>	1495	1498	1498	1495	1495	1498	1495	1495	1493	1493
<b>22.5</b>	1564	1564	1564	1562	1564	1562	1562	1562	1562	1562
<b>25.0</b>	1633	1633	1633	1628	1630	1630	1630	1630	1630	1628
<b>27.5</b>	1699	1701	1701	1699	1699	1696	1694	1694	1696	1696
<b>30.0</b>	1762	1762	1762	1762	1760	1757	1757	1757	1757	1755
<b>32.5</b>	1821	1821	1821	1821	1818	1816	1813	1813	1811	1813
<b>35.0</b>	1872	1869	1869	1869	1867	1864	1862	1862	1862	1862
<b>37.5</b>	1912	1910	1910	1907	1905	1902	1900	1900	1897	1897
<b>40.0</b>	1940	1940	1940	1938	1935	1933	1928	1928	1928	1928
<b>42.5</b>	1961	1961	1958	1956	1953	1951	1948	1946	1946	1943
<b>45.0</b>	1968	1968	1966	1963	1958	1956	1953	1951	1953	1951
<b>47.5</b>	1963	1963	1961	1956	1951	1948	1948	1946	1946	1943
<b>50.0</b>	1943	1943	1940	1935	1930	1928	1925	1923	1923	1923
<b>52.5</b>	1910	1907	1905	1900	1895	1892	1892	1890	1887	1887
<b>55.0</b>	1862	1859	1854	1849	1844	1844	1841	1841	1839	1836
<b>57.5</b>	1798	1795	1788	1778	1775	1775	1778	1775	1775	1768
<b>60.0</b>	1719	1714	1706	1699	1694	1694	1696	1696	1694	1689
<b>62.5</b>	1612	1612	1610	1602	1597	1597	1595	1595	1595	1592
<b>65.0</b>	1503	1503	1498	1493	1488	1485	1483	1483	1483	1483
<b>67.5</b>	1381	1378	1373	1368	1363	1361	1358	1356	1361	1361
<b>70.0</b>	1241	1239	1236	1228	1226	1221	1223	1221	1221	1223
<b>72.5</b>	1091	1094	1091	1083	1073	1078	1078	1078	1073	1071
<b>75.0</b>	931	936	933	918	913	926	923	923	921	910
<b>77.5</b>	755	763	760	745	743	753	758	755	755	740
<b>80.0</b>	572	582	580	572	570	577	580	582	577	567
<b>82.5</b>	389	402	399	397	394	399	394	402	397	392
<b>85.0</b>	221	231	229	226	226	229	224	224	226	226
<b>87.5</b>	79	81	84	84	84	84	81	81	84	86
<b>90.0</b>	10	10	10	13	13	13	13	15	15	15
<b>92.5</b>	10	10	10	10	10	10	10	10	10	10
<b>95.0</b>	13	13	13	13	13	13	13	13	13	15
<b>97.5</b>	15	18	15	18	15	15	15	15	18	18
<b>100.0</b>	20	20	20	20	20	20	20	20	20	20
<b>102.5</b>	23	23	23	23	23	23	23	23	23	23
<b>105.0</b>	28	28	28	28	28	28	28	28	28	28
<b>107.5</b>	31	33	33	31	31	31	31	31	33	33
<b>110.0</b>	36	36	36	36	36	36	36	36	36	36
<b>112.5</b>	41	41	41	41	41	41	41	41	41	41
<b>115.0</b>	46	46	46	46	48	48	48	46	46	46
<b>117.5</b>	51	51	51	53	53	53	53	53	51	53
<b>120.0</b>	58	58	56	58	58	58	58	58	58	58
<b>122.5</b>	66	64	64	64	64	66	64	64	64	64
<b>125.0</b>	74	71	69	71	71	71	71	71	71	71
<b>127.5</b>	79	79	76	79	76	79	79	79	76	79
<b>130.0</b>	86	86	84	84	84	86	84	86	84	84
<b>132.5</b>	94	92	89	92	89	92	89	92	89	92

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**CANDELA TABULATION - (Cont.)**

135.0	102	99	99	99	97	102	97	99	97	97
137.5	109	107	104	107	102	107	104	104	102	102
140.0	114	112	109	112	104	114	112	114	109	107
142.5	120	120	117	120	112	120	117	117	109	109
145.0	122	122	122	125	117	125	120	117	114	112
147.5	132	127	127	130	120	125	120	117	114	114
150.0	137	135	132	127	122	122	120	117	114	114
152.5	140	137	132	125	120	120	120	117	117	112
155.0	127	127	122	114	114	120	114	117	114	112
157.5	114	114	112	112	112	117	117	117	120	112
160.0	107	107	104	104	112	112	114	114	120	114
162.5	104	104	104	102	102	107	109	109	114	117
165.0	99	99	94	94	97	99	104	104	112	120
167.5	94	94	92	94	89	94	92	97	112	120
170.0	84	86	86	86	86	79	81	84	97	99
172.5	76	76	79	76	76	71	76	81	86	89
175.0	66	64	66	69	69	64	71	66	71	69
177.5	46	43	43	46	38	43	46	48	46	43
180.0	36	36	36	36	36	36	36	36	36	36

**Vert. Horizontal Angles**

	<u>90</u>
0.0	1218
2.5	1221
5.0	1236
7.5	1256
10.0	1287
12.5	1328
15.0	1376
17.5	1432
20.0	1490
22.5	1562
25.0	1628
27.5	1696
30.0	1757
32.5	1813
35.0	1862
37.5	1900
40.0	1928
42.5	1943
45.0	1951
47.5	1943
50.0	1923
52.5	1887
55.0	1834
57.5	1770
60.0	1689
62.5	1595
65.0	1485
67.5	1361
70.0	1226
72.5	1076
75.0	916
77.5	750
80.0	575

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	<b>397</b>
<b>85.0</b>	<b>226</b>
<b>87.5</b>	<b>86</b>
<b>90.0</b>	<b>18</b>
<b>92.5</b>	<b>10</b>
<b>95.0</b>	<b>13</b>
<b>97.5</b>	<b>15</b>
<b>100.0</b>	<b>20</b>
<b>102.5</b>	<b>23</b>
<b>105.0</b>	<b>28</b>
<b>107.5</b>	<b>33</b>
<b>110.0</b>	<b>36</b>
<b>112.5</b>	<b>41</b>
<b>115.0</b>	<b>46</b>
<b>117.5</b>	<b>51</b>
<b>120.0</b>	<b>58</b>
<b>122.5</b>	<b>66</b>
<b>125.0</b>	<b>71</b>
<b>127.5</b>	<b>79</b>
<b>130.0</b>	<b>86</b>
<b>132.5</b>	<b>92</b>
<b>135.0</b>	<b>99</b>
<b>137.5</b>	<b>102</b>
<b>140.0</b>	<b>112</b>
<b>142.5</b>	<b>112</b>
<b>145.0</b>	<b>112</b>
<b>147.5</b>	<b>112</b>
<b>150.0</b>	<b>112</b>
<b>152.5</b>	<b>112</b>
<b>155.0</b>	<b>109</b>
<b>157.5</b>	<b>112</b>
<b>160.0</b>	<b>114</b>
<b>162.5</b>	<b>112</b>
<b>165.0</b>	<b>122</b>
<b>167.5</b>	<b>114</b>
<b>170.0</b>	<b>107</b>
<b>172.5</b>	<b>84</b>
<b>175.0</b>	<b>69</b>
<b>177.5</b>	<b>51</b>
<b>180.0</b>	<b>36</b>

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	514.31	N.A.	5.90
0-30	1272.07	N.A.	14.60
0-40	2441.2	N.A.	28.10
0-60	5592.54	N.A.	64.40
0-80	8021.97	N.A.	92.30
0-90	8294.35	N.A.	95.50
10-90	8174.91	N.A.	94.10
20-40	1926.88	N.A.	22.20
20-50	3435.47	N.A.	39.50
40-70	4616.24	N.A.	53.10
60-80	2429.43	N.A.	28.00
70-80	964.54	N.A.	11.10
80-90	272.38	N.A.	3.10
90-110	44.48	N.A.	0.50
90-120	90.70	N.A.	1.00
90-130	154.27	N.A.	1.80
90-150	303.93	N.A.	3.50
90-180	394.68	N.A.	4.50
110-180	350.21	N.A.	4.00
0-180	8689.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	119.45
10-20	394.87
20-30	757.75
30-40	1169.13
40-50	1508.58
50-60	1642.76
60-70	1464.9
70-80	964.54
80-90	272.38
90-100	15.23
100-110	29.25
110-120	46.22
120-130	63.57
130-140	75.48
140-150	74.18
150-160	54.68
160-170	29.18
170-180	6.89

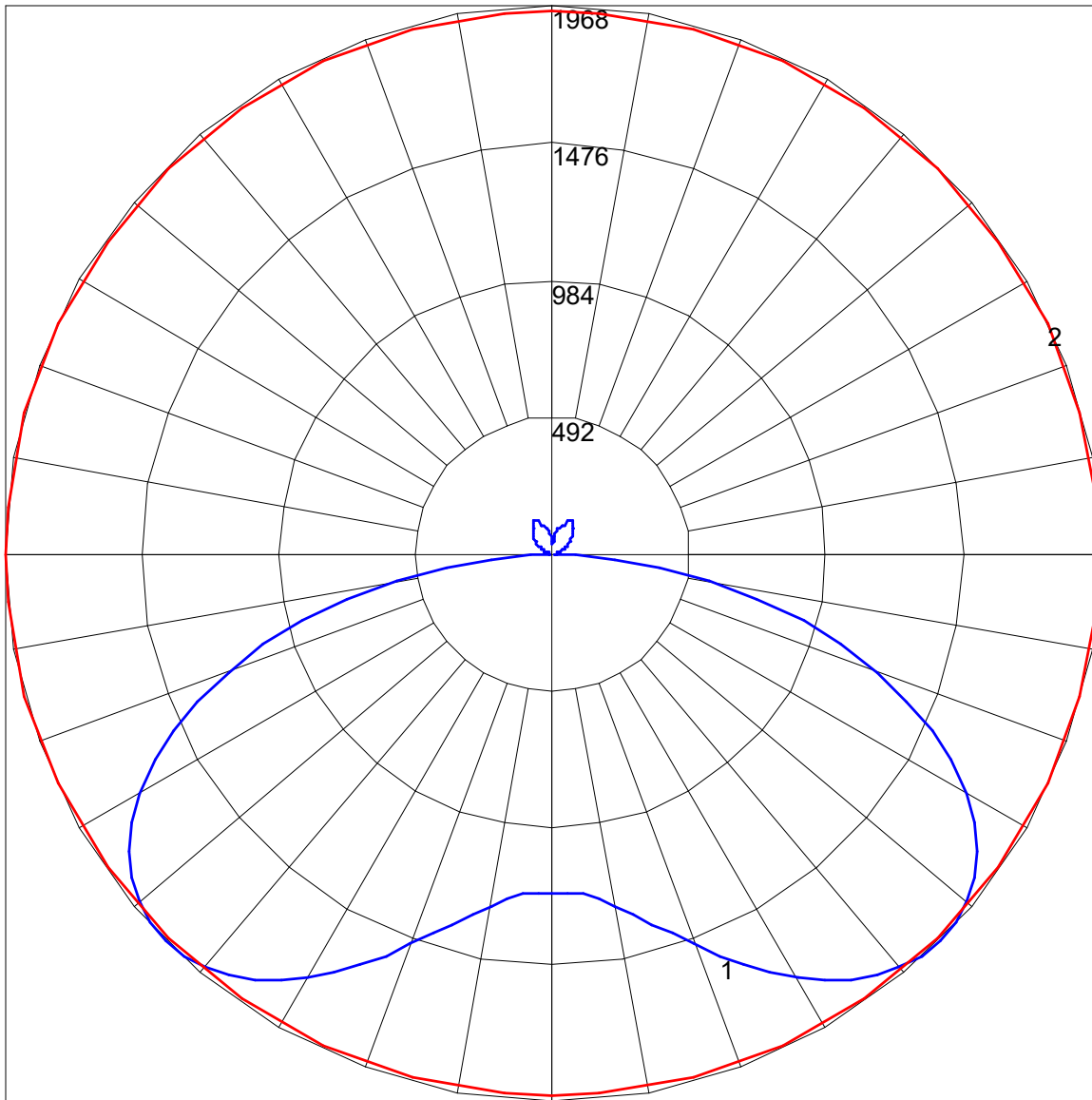
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1968 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.)