



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-08L-T5WU-50-70CRI.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] LED-11030  
[TESTLAB] LSI INDUSTRIES, INC  
[ISSUE DATE] 06/13/19  
[TEST DATE] 04/30/19  
[MANUFACTURER] LSI INDUSTRIES, INC  
[LUMINANCE CATEGORY] EXN-EGLED-08L-T5WU-50-70CRI  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER] TEST PROCEDURE:IESNA LM-79-08  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCE TYPE] LED  
[SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8524
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	64
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	3.94
Spacing Criterion (90-270)	3.96
Spacing Criterion (Diagonal)	3.52
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	20153	20059	20118
55	25812	25812	26242
65	28924	28804	29269
75	23471	23233	23599
85	6696	6769	6818

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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>	369	369	369	369	369	369	369	369	369	369
<b>2.5</b>	369	369	369	369	369	369	369	369	369	369
<b>5.0</b>	382	382	385	385	385	382	382	382	382	382
<b>7.5</b>	410	410	410	410	410	410	408	408	408	410
<b>10.0</b>	446	446	446	449	446	446	444	444	446	446
<b>12.5</b>	497	495	495	495	495	495	492	492	495	495
<b>15.0</b>	559	556	556	556	554	554	556	554	554	554
<b>17.5</b>	633	631	631	631	628	628	631	631	628	628
<b>20.0</b>	720	718	713	713	713	713	715	718	713	710
<b>22.5</b>	815	815	808	810	808	810	810	813	808	810
<b>25.0</b>	918	915	913	913	913	913	913	915	913	913
<b>27.5</b>	1025	1023	1023	1018	1018	1020	1020	1020	1023	1020
<b>30.0</b>	1133	1133	1133	1125	1128	1128	1128	1128	1128	1131
<b>32.5</b>	1238	1238	1238	1236	1236	1233	1233	1236	1236	1236
<b>35.0</b>	1341	1341	1341	1341	1338	1336	1336	1336	1338	1341
<b>37.5</b>	1438	1441	1441	1443	1441	1433	1430	1433	1436	1441
<b>40.0</b>	1528	1530	1533	1533	1530	1528	1520	1523	1525	1528
<b>42.5</b>	1615	1615	1618	1618	1613	1613	1607	1607	1613	1613
<b>45.0</b>	1700	1695	1697	1697	1695	1692	1689	1689	1692	1695
<b>47.5</b>	1777	1777	1774	1779	1777	1771	1774	1771	1771	1777
<b>50.0</b>	1853	1853	1851	1859	1859	1848	1853	1853	1851	1861
<b>52.5</b>	1923	1928	1920	1933	1933	1923	1925	1928	1925	1941
<b>55.0</b>	1979	1984	1979	1997	1997	1979	1984	1987	1987	2007
<b>57.5</b>	2018	2018	2018	2041	2041	2018	2023	2023	2023	2051
<b>60.0</b>	2028	2023	2020	2048	2048	2023	2028	2030	2028	2064
<b>62.5</b>	2000	1987	1987	2015	2018	1989	1997	1997	1994	2030
<b>65.0</b>	1928	1918	1918	1943	1946	1920	1928	1928	1928	1961
<b>67.5</b>	1815	1810	1810	1833	1836	1815	1815	1815	1818	1848
<b>70.0</b>	1666	1666	1666	1684	1687	1666	1666	1669	1669	1697
<b>72.5</b>	1489	1482	1489	1505	1505	1482	1487	1487	1484	1502
<b>75.0</b>	1282	1274	1274	1284	1274	1269	1277	1274	1274	1287
<b>77.5</b>	1046	1036	1025	1031	1025	1033	1041	1038	1036	1036
<b>80.0</b>	792	774	767	764	767	774	784	782	782	772
<b>82.5</b>	520	510	510	508	508	513	515	515	513	510
<b>85.0</b>	274	277	279	277	277	277	274	274	277	274
<b>87.5</b>	90	95	97	95	95	95	87	87	87	90
<b>90.0</b>	13	13	13	13	13	10	10	10	10	10
<b>92.5</b>	10	10	10	10	10	10	10	10	13	13
<b>95.0</b>	13	13	13	13	13	13	13	13	15	13
<b>97.5</b>	18	18	18	18	18	18	18	18	18	18
<b>100.0</b>	21	21	21	21	21	21	21	21	21	21
<b>102.5</b>	26	26	26	23	23	23	23	26	26	26
<b>105.0</b>	28	28	28	28	28	28	28	28	28	28
<b>107.5</b>	33	33	33	31	33	31	33	33	33	33
<b>110.0</b>	38	38	38	38	38	36	38	38	38	38
<b>112.5</b>	44	44	44	44	44	44	41	41	41	44
<b>115.0</b>	46	46	46	49	49	49	49	46	46	46
<b>117.5</b>	51	51	54	54	54	54	54	54	54	51
<b>120.0</b>	56	59	59	62	62	59	59	59	59	59
<b>122.5</b>	64	64	67	67	67	67	67	67	67	64
<b>125.0</b>	72	72	72	72	72	72	72	72	72	72
<b>127.5</b>	79	79	79	79	79	79	79	79	79	79
<b>130.0</b>	85	87	85	85	85	87	85	87	85	85
<b>132.5</b>	92	92	92	92	92	92	92	92	92	92

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**CANDELA TABULATION - (Cont.)**

135.0	100	100	100	97	97	100	97	97	97	97
137.5	108	105	105	105	105	108	105	105	105	105
140.0	115	113	113	110	113	113	110	110	113	113
142.5	120	115	118	118	118	118	118	115	118	118
145.0	120	120	123	123	120	118	120	120	123	123
147.5	118	123	126	128	126	120	123	120	128	126
150.0	126	123	123	128	126	123	128	123	128	128
152.5	120	123	118	120	126	126	126	126	128	126
155.0	118	120	118	118	120	123	118	123	123	123
157.5	123	118	120	115	118	120	118	115	123	123
160.0	115	115	118	110	113	115	113	115	115	118
162.5	110	113	110	113	110	118	110	110	113	113
165.0	95	100	103	105	108	113	110	110	105	105
167.5	90	90	100	105	100	97	100	103	100	100
170.0	72	74	90	92	95	90	87	87	90	87
172.5	77	79	74	77	79	79	77	79	79	72
175.0	67	69	64	67	64	67	67	67	67	64
177.5	46	46	44	49	38	44	46	46	46	49
180.0	26	26	26	26	26	26	26	26	26	26

**Vert. Horizontal Angles**

	<u>90</u>
0.0	369
2.5	369
5.0	385
7.5	410
10.0	446
12.5	495
15.0	554
17.5	628
20.0	713
22.5	808
25.0	910
27.5	1015
30.0	1128
32.5	1233
35.0	1343
37.5	1443
40.0	1533
42.5	1618
45.0	1697
47.5	1782
50.0	1864
52.5	1943
55.0	2012
57.5	2056
60.0	2061
62.5	2023
65.0	1951
67.5	1843
70.0	1697
72.5	1518
75.0	1289
77.5	1036
80.0	777

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**CANDELA TABULATION - (Cont.)**

<b>82.5</b>	515
<b>85.0</b>	279
<b>87.5</b>	92
<b>90.0</b>	10
<b>92.5</b>	13
<b>95.0</b>	15
<b>97.5</b>	18
<b>100.0</b>	21
<b>102.5</b>	26
<b>105.0</b>	28
<b>107.5</b>	33
<b>110.0</b>	38
<b>112.5</b>	44
<b>115.0</b>	46
<b>117.5</b>	51
<b>120.0</b>	59
<b>122.5</b>	67
<b>125.0</b>	72
<b>127.5</b>	77
<b>130.0</b>	85
<b>132.5</b>	92
<b>135.0</b>	97
<b>137.5</b>	105
<b>140.0</b>	113
<b>142.5</b>	120
<b>145.0</b>	126
<b>147.5</b>	126
<b>150.0</b>	126
<b>152.5</b>	128
<b>155.0</b>	126
<b>157.5</b>	120
<b>160.0</b>	118
<b>162.5</b>	108
<b>165.0</b>	105
<b>167.5</b>	97
<b>170.0</b>	87
<b>172.5</b>	67
<b>175.0</b>	69
<b>177.5</b>	51
<b>180.0</b>	26

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	202.58	N.A.	2.40
0-30	632.41	N.A.	7.40
0-40	1476.04	N.A.	17.30
0-60	4562.1	N.A.	53.50
0-80	7774.51	N.A.	91.20
0-90	8120.66	N.A.	95.30
10-90	8082.05	N.A.	94.80
20-40	1273.46	N.A.	14.90
20-50	2588.14	N.A.	30.40
40-70	4972.44	N.A.	58.30
60-80	3212.41	N.A.	37.70
70-80	1326.03	N.A.	15.60
80-90	346.15	N.A.	4.10
90-110	46.08	N.A.	0.50
90-120	93.68	N.A.	1.10
90-130	158.49	N.A.	1.90
90-150	310.05	N.A.	3.60
90-180	403.09	N.A.	4.70
110-180	357.00	N.A.	4.20
0-180	8523.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.61
10-20	163.98
20-30	429.83
30-40	843.63
40-50	1314.68
50-60	1771.38
60-70	1886.39
70-80	1326.03
80-90	346.15
90-100	15.83
100-110	30.25
110-120	47.60
120-130	64.81
130-140	76.05
140-150	75.51
150-160	56.16
160-170	30.08
170-180	6.79

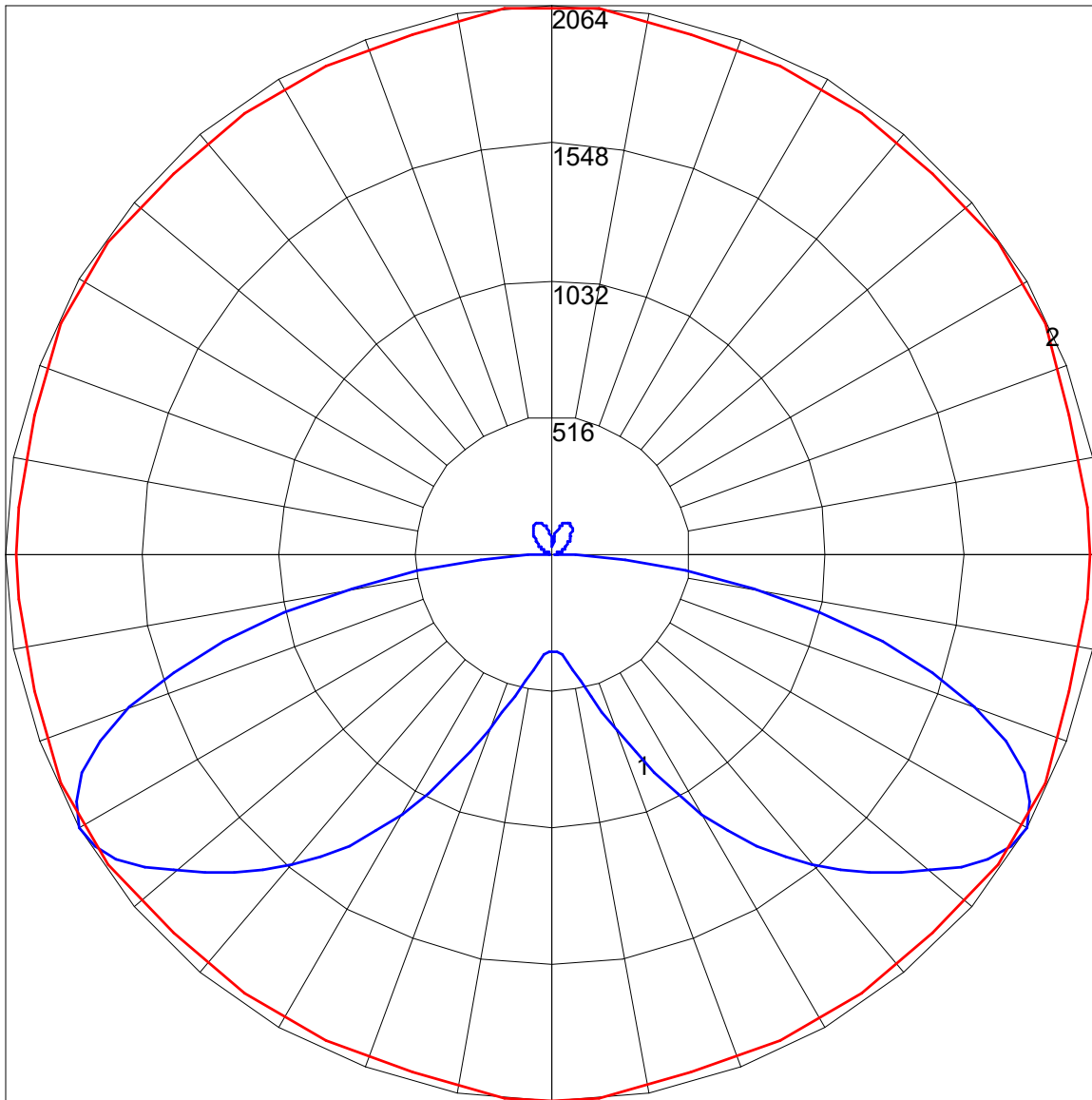
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	104	97	91	86	100	94	89	84	89	85	81	84	81	77	80	77	74	71
2	91	80	71	64	88	78	69	62	73	66	60	69	63	58	65	60	56	53
3	80	67	57	48	77	65	55	48	61	53	46	57	50	44	54	48	43	40
4	72	57	46	38	69	55	45	37	52	43	36	49	41	35	46	39	34	31
5	65	49	38	30	62	48	37	30	45	36	29	42	34	28	40	33	27	25
6	59	43	32	25	56	42	32	24	39	30	24	37	29	23	35	28	22	20
7	54	38	28	20	52	37	27	20	35	26	20	33	25	19	31	24	19	16
8	50	34	24	17	48	33	24	17	31	23	17	29	22	16	28	21	16	13
9	46	30	21	15	44	30	21	15	28	20	14	27	19	14	25	18	13	11
10	43	28	19	13	41	27	18	13	26	18	12	24	17	12	23	16	12	10

POLAR GRAPH



Maximum Candela = 2064 Located At Horizontal Angle = 85, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (85 - 265) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)