



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EXN-EGLED-06L-T5N-50-70CRI.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-10477\_scaled  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]09/21/18  
[TEST DATE]08/04/18  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]EXN-EGLED-06L-T5N-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\_SOURCE TYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 6380               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 145                |
| Total Luminaire Watts           | 44                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 2.28               |
| Spacing Criterion (90-270)      | 2.28               |
| Spacing Criterion (Diagonal)    | 2.24               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 1.13 ft (Diameter) |
| Luminous Width (90-270)         | 1.13 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 23040            | 22979             | 23009             |
| 55                  | 27310            | 27178             | 27196             |
| 65                  | 30307            | 30204             | 30051             |
| 75                  | 31013            | 30804             | 30052             |
| 85                  | 23459            | 21349             | 21349             |

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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>  | 863.940  | 863.940  | 863.940   | 863.940   | 863.940   | 863.940   | 863.940   | 863.940   | 863.940   | 863.940   |
| <b>2.5</b>  | 865.939  | 865.939  | 865.939   | 865.939   | 865.939   | 864.939   | 865.939   | 865.939   | 865.939   | 865.939   |
| <b>5.0</b>  | 874.939  | 873.939  | 873.939   | 873.939   | 874.939   | 873.939   | 874.939   | 874.939   | 874.939   | 874.939   |
| <b>7.5</b>  | 889.938  | 889.938  | 888.938   | 888.938   | 888.938   | 890.938   | 889.938   | 889.938   | 889.938   | 889.938   |
| <b>10.0</b> | 912.936  | 912.936  | 913.936   | 912.936   | 912.936   | 912.936   | 912.936   | 913.936   | 912.936   | 913.936   |
| <b>12.5</b> | 941.934  | 941.934  | 942.934   | 943.934   | 942.934   | 942.934   | 942.934   | 942.934   | 941.934   | 942.934   |
| <b>15.0</b> | 978.931  | 978.931  | 980.931   | 980.931   | 979.931   | 979.931   | 978.931   | 978.931   | 978.931   | 979.931   |
| <b>17.5</b> | 1022.928 | 1023.928 | 1023.928  | 1024.928  | 1024.928  | 1023.928  | 1022.928  | 1022.928  | 1023.928  | 1024.928  |
| <b>20.0</b> | 1070.925 | 1071.925 | 1073.925  | 1073.925  | 1073.925  | 1072.925  | 1070.925  | 1070.925  | 1073.925  | 1073.925  |
| <b>22.5</b> | 1124.921 | 1126.921 | 1126.921  | 1126.921  | 1126.921  | 1127.921  | 1125.921  | 1126.921  | 1126.921  | 1127.921  |
| <b>25.0</b> | 1184.917 | 1183.917 | 1183.917  | 1183.917  | 1183.917  | 1184.917  | 1183.917  | 1185.917  | 1183.917  | 1183.917  |
| <b>27.5</b> | 1245.913 | 1243.913 | 1241.913  | 1241.913  | 1241.913  | 1242.913  | 1243.913  | 1244.913  | 1242.913  | 1241.913  |
| <b>30.0</b> | 1301.909 | 1299.909 | 1297.909  | 1297.909  | 1297.909  | 1298.909  | 1300.909  | 1299.909  | 1298.909  | 1297.909  |
| <b>32.5</b> | 1352.905 | 1352.905 | 1350.905  | 1349.906  | 1349.906  | 1350.905  | 1351.905  | 1351.905  | 1351.905  | 1349.906  |
| <b>35.0</b> | 1399.902 | 1399.902 | 1397.902  | 1395.902  | 1396.902  | 1398.902  | 1398.902  | 1398.902  | 1398.902  | 1397.902  |
| <b>37.5</b> | 1438.899 | 1438.899 | 1437.899  | 1436.899  | 1435.900  | 1436.899  | 1436.899  | 1436.899  | 1437.899  | 1437.899  |
| <b>40.0</b> | 1469.897 | 1469.897 | 1469.897  | 1468.897  | 1467.897  | 1467.897  | 1467.897  | 1468.897  | 1468.897  | 1468.897  |
| <b>42.5</b> | 1491.896 | 1492.896 | 1491.896  | 1491.896  | 1489.896  | 1489.896  | 1489.896  | 1490.896  | 1490.896  | 1491.896  |
| <b>45.0</b> | 1505.895 | 1506.895 | 1504.895  | 1503.895  | 1502.895  | 1501.895  | 1503.895  | 1503.895  | 1503.895  | 1503.895  |
| <b>47.5</b> | 1509.894 | 1509.894 | 1508.894  | 1504.895  | 1503.895  | 1504.895  | 1505.895  | 1506.895  | 1506.895  | 1505.895  |
| <b>50.0</b> | 1501.895 | 1499.895 | 1500.895  | 1495.895  | 1494.895  | 1495.895  | 1494.895  | 1494.895  | 1498.895  | 1496.895  |
| <b>52.5</b> | 1479.896 | 1478.897 | 1479.896  | 1475.897  | 1473.897  | 1474.897  | 1471.897  | 1472.897  | 1476.897  | 1476.897  |
| <b>55.0</b> | 1447.899 | 1445.899 | 1446.899  | 1442.899  | 1440.899  | 1440.899  | 1438.899  | 1440.899  | 1443.899  | 1443.899  |
| <b>57.5</b> | 1402.902 | 1401.902 | 1401.902  | 1397.902  | 1393.902  | 1393.902  | 1394.902  | 1395.902  | 1397.902  | 1398.902  |
| <b>60.0</b> | 1341.906 | 1343.906 | 1341.906  | 1337.906  | 1334.907  | 1335.907  | 1335.907  | 1338.906  | 1340.906  | 1339.906  |
| <b>62.5</b> | 1266.911 | 1272.911 | 1270.911  | 1265.911  | 1262.912  | 1263.912  | 1264.911  | 1266.911  | 1268.911  | 1267.911  |
| <b>65.0</b> | 1183.917 | 1189.917 | 1181.917  | 1177.918  | 1179.917  | 1179.917  | 1180.917  | 1183.917  | 1182.917  | 1179.917  |
| <b>67.5</b> | 1092.924 | 1092.924 | 1087.924  | 1082.924  | 1080.924  | 1080.924  | 1084.924  | 1087.924  | 1086.924  | 1084.924  |
| <b>70.0</b> | 985.931  | 984.931  | 984.931   | 977.932   | 975.932   | 978.931   | 979.931   | 979.931   | 983.931   | 980.931   |
| <b>72.5</b> | 866.939  | 864.939  | 869.939   | 865.939   | 863.940   | 863.940   | 855.940   | 854.940   | 869.939   | 868.939   |
| <b>75.0</b> | 741.948  | 731.949  | 742.948   | 746.948   | 744.948   | 736.948   | 723.949   | 725.949   | 738.948   | 748.948   |
| <b>77.5</b> | 605.958  | 588.959  | 600.958   | 614.957   | 609.957   | 596.958   | 585.959   | 586.959   | 596.958   | 615.957   |
| <b>80.0</b> | 465.967  | 447.969  | 451.968   | 458.968   | 464.967   | 447.969   | 446.969   | 448.969   | 450.968   | 465.967   |
| <b>82.5</b> | 324.977  | 311.978  | 301.979   | 314.978   | 316.978   | 305.979   | 311.978   | 311.978   | 304.979   | 313.978   |
| <b>85.0</b> | 188.987  | 177.988  | 168.988   | 176.988   | 176.988   | 171.988   | 177.988   | 180.987   | 171.988   | 176.988   |
| <b>87.5</b> | 60.996   | 57.996   | 54.996    | 56.996    | 56.996    | 55.996    | 58.996    | 60.996    | 55.996    | 57.996    |
| <b>90.0</b> | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |

**Vert. Horizontal Angles**

|             | <u>90</u> |
|-------------|-----------|
| <b>0.0</b>  | 863.940   |
| <b>2.5</b>  | 866.939   |
| <b>5.0</b>  | 873.939   |
| <b>7.5</b>  | 888.938   |
| <b>10.0</b> | 911.936   |
| <b>12.5</b> | 941.934   |
| <b>15.0</b> | 981.931   |
| <b>17.5</b> | 1024.928  |
| <b>20.0</b> | 1074.925  |
| <b>22.5</b> | 1127.921  |
| <b>25.0</b> | 1183.917  |
| <b>27.5</b> | 1240.913  |
| <b>30.0</b> | 1297.909  |

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**CANDELA TABULATION - (Cont.)**

|             |          |
|-------------|----------|
| <b>32.5</b> | 1349.906 |
| <b>35.0</b> | 1395.902 |
| <b>37.5</b> | 1436.899 |
| <b>40.0</b> | 1468.897 |
| <b>42.5</b> | 1491.896 |
| <b>45.0</b> | 1503.895 |
| <b>47.5</b> | 1503.895 |
| <b>50.0</b> | 1494.895 |
| <b>52.5</b> | 1474.897 |
| <b>55.0</b> | 1441.899 |
| <b>57.5</b> | 1393.902 |
| <b>60.0</b> | 1332.907 |
| <b>62.5</b> | 1257.912 |
| <b>65.0</b> | 1173.918 |
| <b>67.5</b> | 1079.924 |
| <b>70.0</b> | 970.932  |
| <b>72.5</b> | 849.941  |
| <b>75.0</b> | 718.950  |
| <b>77.5</b> | 584.959  |
| <b>80.0</b> | 449.969  |
| <b>82.5</b> | 300.979  |
| <b>85.0</b> | 171.988  |
| <b>87.5</b> | 58.996   |
| <b>90.0</b> | 0.000    |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 366.20  | N.A.  | 5.70   |
| 0-30    | 917.80  | N.A.  | 14.40  |
| 0-40    | 1794.74 | N.A.  | 28.10  |
| 0-60    | 4238.37 | N.A.  | 66.40  |
| 0-80    | 6170.45 | N.A.  | 96.70  |
| 0-90    | 6380.09 | N.A.  | 100.00 |
| 10-90   | 6295.39 | N.A.  | 98.70  |
| 20-40   | 1428.54 | N.A.  | 22.40  |
| 20-50   | 2587.49 | N.A.  | 40.60  |
| 40-70   | 3606.06 | N.A.  | 56.50  |
| 60-80   | 1932.09 | N.A.  | 30.30  |
| 70-80   | 769.65  | N.A.  | 12.10  |
| 80-90   | 209.63  | N.A.  | 3.30   |
| 90-110  | 0.00    | N.A.  | 0.00   |
| 90-120  | 0.00    | N.A.  | 0.00   |
| 90-130  | 0.00    | N.A.  | 0.00   |
| 90-150  | 0.00    | N.A.  | 0.00   |
| 90-180  | 0.00    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 6380.09 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 84.69   |
| 10-20   | 281.51  |
| 20-30   | 551.60  |
| 30-40   | 876.94  |
| 40-50   | 1158.95 |
| 50-60   | 1284.67 |
| 60-70   | 1162.43 |
| 70-80   | 769.65  |
| 80-90   | 209.63  |
| 90-100  | 0.00    |
| 100-110 | 0.00    |
| 110-120 | 0.00    |
| 120-130 | 0.00    |
| 130-140 | 0.00    |
| 140-150 | 0.00    |
| 150-160 | 0.00    |
| 160-170 | 0.00    |
| 170-180 | 0.00    |

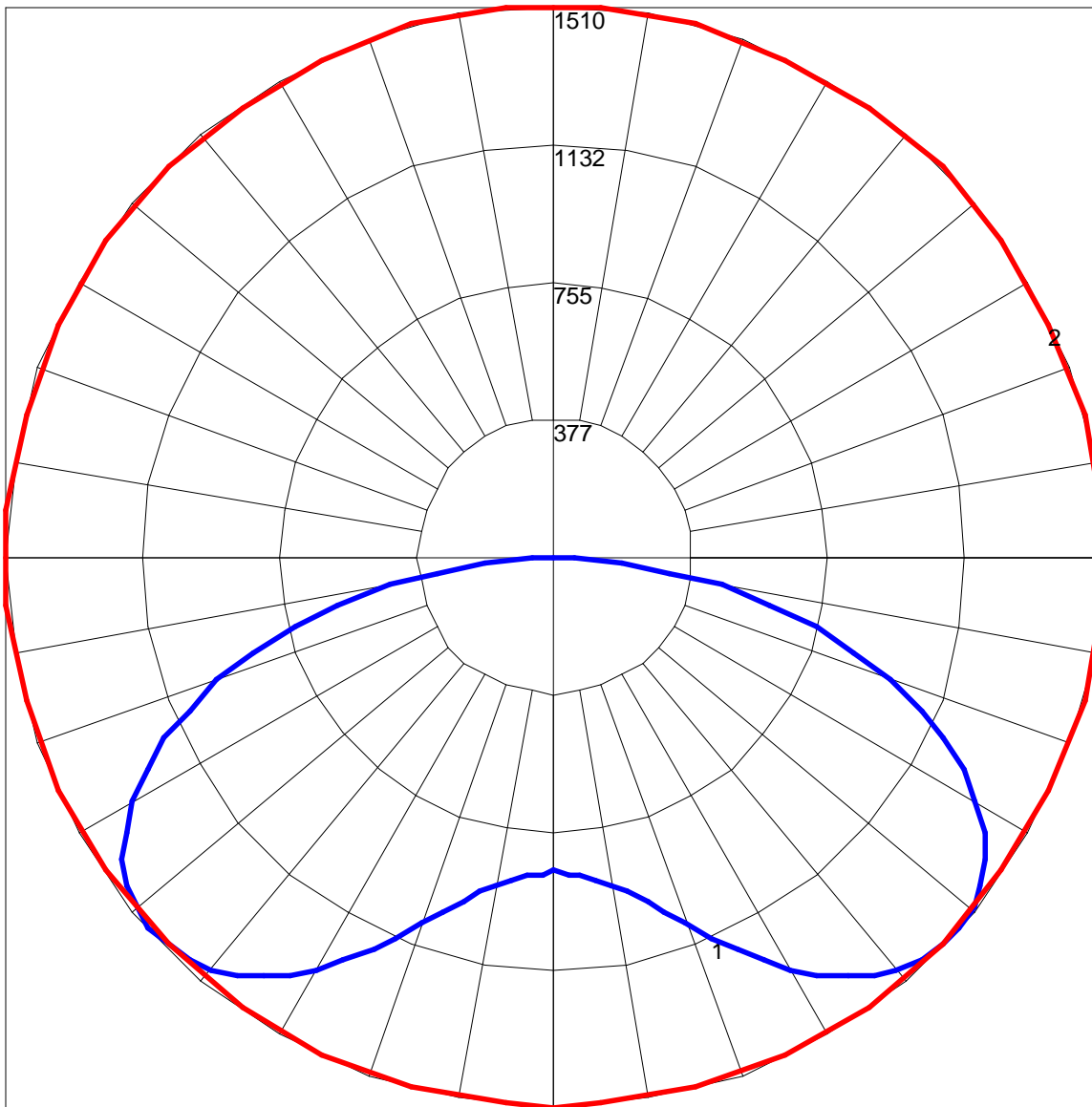
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 106 | 100 | 95  | 90  | 103 | 98  | 93  | 89  | 94  | 90  | 86  | 90  | 86  | 83  | 86  | 83  | 81  | 79  |
| 2  | 95  | 85  | 76  | 70  | 92  | 83  | 75  | 69  | 79  | 73  | 67  | 76  | 70  | 65  | 72  | 68  | 64  | 61  |
| 3  | 85  | 72  | 63  | 55  | 82  | 71  | 62  | 54  | 67  | 60  | 53  | 64  | 58  | 52  | 62  | 56  | 51  | 49  |
| 4  | 76  | 62  | 52  | 44  | 74  | 61  | 51  | 44  | 58  | 50  | 43  | 56  | 49  | 43  | 53  | 47  | 42  | 40  |
| 5  | 69  | 55  | 44  | 37  | 67  | 53  | 44  | 36  | 51  | 42  | 36  | 49  | 41  | 35  | 47  | 40  | 35  | 33  |
| 6  | 63  | 48  | 38  | 31  | 61  | 47  | 38  | 31  | 45  | 37  | 30  | 43  | 36  | 30  | 42  | 35  | 30  | 27  |
| 7  | 58  | 43  | 33  | 26  | 56  | 42  | 33  | 26  | 40  | 32  | 26  | 39  | 31  | 26  | 37  | 31  | 25  | 23  |
| 8  | 54  | 39  | 29  | 23  | 52  | 38  | 29  | 23  | 36  | 28  | 22  | 35  | 28  | 22  | 34  | 27  | 22  | 20  |
| 9  | 50  | 35  | 26  | 20  | 48  | 34  | 26  | 20  | 33  | 25  | 20  | 32  | 25  | 19  | 31  | 24  | 19  | 17  |
| 10 | 46  | 32  | 23  | 18  | 45  | 31  | 23  | 17  | 30  | 23  | 17  | 29  | 22  | 17  | 28  | 22  | 17  | 15  |

POLAR GRAPH



Maximum Candela = 1509.894 Located At Horizontal Angle = 0, Vertical Angle = 47.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (47.5) (Through Max. Cd.)