



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-05L-T5N-40-70CRI.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-05L-T5N-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\_SOURCE TYPE] LED  
[SEARCH\_APPLICATION] Outdoor

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 5340               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 144                |
| Total Luminaire Watts           | 37                 |
| 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                  | 19284            | 19233             | 19259             |
| 55                  | 22858            | 22748             | 22763             |
| 65                  | 25367            | 25281             | 25153             |
| 75                  | 25958            | 25783             | 25153             |
| 85                  | 19635            | 17869             | 17869             |

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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> |
|------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0  | 723.116  | 723.116  | 723.116   | 723.116   | 723.116   | 723.116   | 723.116   | 723.116   | 723.116   | 723.116   |
| 2.5  | 724.790  | 724.790  | 724.790   | 724.790   | 724.790   | 723.953   | 724.790   | 724.790   | 724.790   | 724.790   |
| 5.0  | 732.322  | 731.486  | 731.486   | 731.486   | 732.322   | 731.486   | 732.322   | 732.322   | 732.322   | 732.322   |
| 7.5  | 744.877  | 744.877  | 744.040   | 744.040   | 744.040   | 745.714   | 744.877   | 744.877   | 744.877   | 744.877   |
| 10.0 | 764.126  | 764.126  | 764.963   | 764.126   | 764.126   | 764.126   | 764.126   | 764.963   | 764.126   | 764.963   |
| 12.5 | 788.397  | 788.397  | 789.234   | 790.071   | 789.234   | 789.234   | 789.234   | 788.397   | 788.397   | 789.234   |
| 15.0 | 819.364  | 819.364  | 821.038   | 821.038   | 820.201   | 820.201   | 819.364   | 819.364   | 819.364   | 820.201   |
| 17.5 | 856.190  | 857.027  | 857.027   | 857.863   | 857.863   | 857.027   | 856.190   | 856.190   | 857.027   | 857.863   |
| 20.0 | 896.363  | 897.200  | 898.874   | 898.874   | 898.874   | 898.037   | 896.363   | 896.363   | 898.874   | 898.874   |
| 22.5 | 941.557  | 943.231  | 943.231   | 943.231   | 943.231   | 944.068   | 942.394   | 943.231   | 943.231   | 944.068   |
| 25.0 | 991.774  | 990.937  | 990.937   | 990.937   | 990.937   | 991.774   | 990.937   | 992.611   | 990.937   | 990.937   |
| 27.5 | 1042.827 | 1041.153 | 1039.479  | 1039.479  | 1039.479  | 1040.316  | 1041.153  | 1041.990  | 1040.316  | 1039.479  |
| 30.0 | 1089.696 | 1088.022 | 1086.348  | 1086.348  | 1086.348  | 1087.185  | 1088.859  | 1088.022  | 1087.185  | 1086.348  |
| 32.5 | 1132.380 | 1132.380 | 1130.706  | 1129.869  | 1129.869  | 1130.706  | 1131.543  | 1131.543  | 1131.543  | 1129.869  |
| 35.0 | 1171.716 | 1171.716 | 1170.042  | 1168.368  | 1169.205  | 1170.879  | 1170.879  | 1170.879  | 1170.879  | 1170.042  |
| 37.5 | 1204.357 | 1204.357 | 1203.520  | 1202.683  | 1201.846  | 1202.683  | 1202.683  | 1202.683  | 1203.520  | 1203.520  |
| 40.0 | 1230.302 | 1230.302 | 1230.302  | 1229.465  | 1228.628  | 1228.628  | 1228.628  | 1229.465  | 1229.465  | 1229.465  |
| 42.5 | 1248.714 | 1249.551 | 1248.714  | 1248.714  | 1247.041  | 1247.041  | 1247.041  | 1247.878  | 1247.878  | 1248.714  |
| 45.0 | 1260.432 | 1261.269 | 1259.595  | 1258.758  | 1257.921  | 1257.084  | 1258.758  | 1258.758  | 1258.758  | 1258.758  |
| 47.5 | 1263.779 | 1263.779 | 1262.942  | 1259.595  | 1258.758  | 1259.595  | 1260.432  | 1261.269  | 1261.269  | 1260.432  |
| 50.0 | 1257.084 | 1255.410 | 1256.247  | 1252.062  | 1251.225  | 1252.062  | 1251.225  | 1251.225  | 1254.573  | 1252.899  |
| 52.5 | 1238.671 | 1237.834 | 1238.671  | 1235.323  | 1233.650  | 1234.486  | 1231.976  | 1232.813  | 1236.160  | 1236.160  |
| 55.0 | 1211.889 | 1210.215 | 1211.052  | 1207.704  | 1206.031  | 1206.031  | 1204.357  | 1206.031  | 1208.541  | 1208.541  |
| 57.5 | 1174.227 | 1173.390 | 1173.390  | 1170.042  | 1166.694  | 1166.694  | 1167.531  | 1168.368  | 1170.042  | 1170.879  |
| 60.0 | 1123.173 | 1124.847 | 1123.173  | 1119.826  | 1117.315  | 1118.152  | 1118.152  | 1120.663  | 1122.337  | 1121.500  |
| 62.5 | 1060.403 | 1065.425 | 1063.751  | 1059.566  | 1057.055  | 1057.892  | 1058.729  | 1060.403  | 1062.077  | 1061.240  |
| 65.0 | 990.937  | 995.959  | 989.263   | 985.915   | 987.589   | 987.589   | 988.426   | 990.937   | 990.100   | 987.589   |
| 67.5 | 914.775  | 914.775  | 910.591   | 906.406   | 904.732   | 904.732   | 908.080   | 910.591   | 909.754   | 908.080   |
| 70.0 | 825.223  | 824.386  | 824.386   | 818.527   | 816.853   | 819.364   | 820.201   | 820.201   | 823.549   | 821.038   |
| 72.5 | 725.627  | 723.953  | 728.138   | 724.790   | 723.116   | 723.116   | 716.421   | 715.584   | 728.138   | 727.301   |
| 75.0 | 621.009  | 612.640  | 621.846   | 625.194   | 623.520   | 616.825   | 605.945   | 607.618   | 618.499   | 626.868   |
| 77.5 | 507.186  | 492.958  | 503.001   | 514.718   | 510.533   | 499.653   | 490.447   | 491.284   | 499.653   | 515.555   |
| 80.0 | 390.014  | 374.949  | 378.297   | 384.155   | 389.177   | 374.949   | 374.112   | 375.786   | 377.460   | 390.014   |
| 82.5 | 272.005  | 261.125  | 252.756   | 263.636   | 265.310   | 256.104   | 261.125   | 261.125   | 255.267   | 262.799   |
| 85.0 | 158.182  | 148.975  | 141.443   | 148.138   | 148.138   | 143.954   | 148.975   | 151.486   | 143.954   | 148.138   |
| 87.5 | 51.053   | 48.543   | 46.032    | 47.706    | 47.706    | 46.869    | 49.379    | 51.053    | 46.869    | 48.543    |
| 90.0 | 0.000    | 0.000    | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     | 0.000     |

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

|      | <u>90</u> |
|------|-----------|
| 0.0  | 723.116   |
| 2.5  | 725.627   |
| 5.0  | 731.486   |
| 7.5  | 744.040   |
| 10.0 | 763.289   |
| 12.5 | 788.397   |
| 15.0 | 821.875   |
| 17.5 | 857.863   |
| 20.0 | 899.710   |
| 22.5 | 944.068   |
| 25.0 | 990.937   |
| 27.5 | 1038.643  |
| 30.0 | 1086.348  |

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**CANDELA TABULATION - (Cont.)**

|             |          |
|-------------|----------|
| <b>32.5</b> | 1129.869 |
| <b>35.0</b> | 1168.368 |
| <b>37.5</b> | 1202.683 |
| <b>40.0</b> | 1229.465 |
| <b>42.5</b> | 1248.714 |
| <b>45.0</b> | 1258.758 |
| <b>47.5</b> | 1258.758 |
| <b>50.0</b> | 1251.225 |
| <b>52.5</b> | 1234.486 |
| <b>55.0</b> | 1206.867 |
| <b>57.5</b> | 1166.694 |
| <b>60.0</b> | 1115.641 |
| <b>62.5</b> | 1052.871 |
| <b>65.0</b> | 982.568  |
| <b>67.5</b> | 903.895  |
| <b>70.0</b> | 812.669  |
| <b>72.5</b> | 711.399  |
| <b>75.0</b> | 601.760  |
| <b>77.5</b> | 489.610  |
| <b>80.0</b> | 376.623  |
| <b>82.5</b> | 251.919  |
| <b>85.0</b> | 143.954  |
| <b>87.5</b> | 49.379   |
| <b>90.0</b> | 0.000    |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 306.51  | N.A.  | 5.70   |
| 0-30    | 768.20  | N.A.  | 14.40  |
| 0-40    | 1502.2  | N.A.  | 28.10  |
| 0-60    | 3547.51 | N.A.  | 66.40  |
| 0-80    | 5164.66 | N.A.  | 96.70  |
| 0-90    | 5340.12 | N.A.  | 100.00 |
| 10-90   | 5269.24 | N.A.  | 98.70  |
| 20-40   | 1195.69 | N.A.  | 22.40  |
| 20-50   | 2165.73 | N.A.  | 40.60  |
| 40-70   | 3018.26 | N.A.  | 56.50  |
| 60-80   | 1617.15 | N.A.  | 30.30  |
| 70-80   | 644.20  | N.A.  | 12.10  |
| 80-90   | 175.46  | 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   | 5340.12 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 70.89   |
| 10-20   | 235.62  |
| 20-30   | 461.69  |
| 30-40   | 734.00  |
| 40-50   | 970.04  |
| 50-60   | 1075.27 |
| 60-70   | 972.95  |
| 70-80   | 644.20  |
| 80-90   | 175.46  |
| 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    |

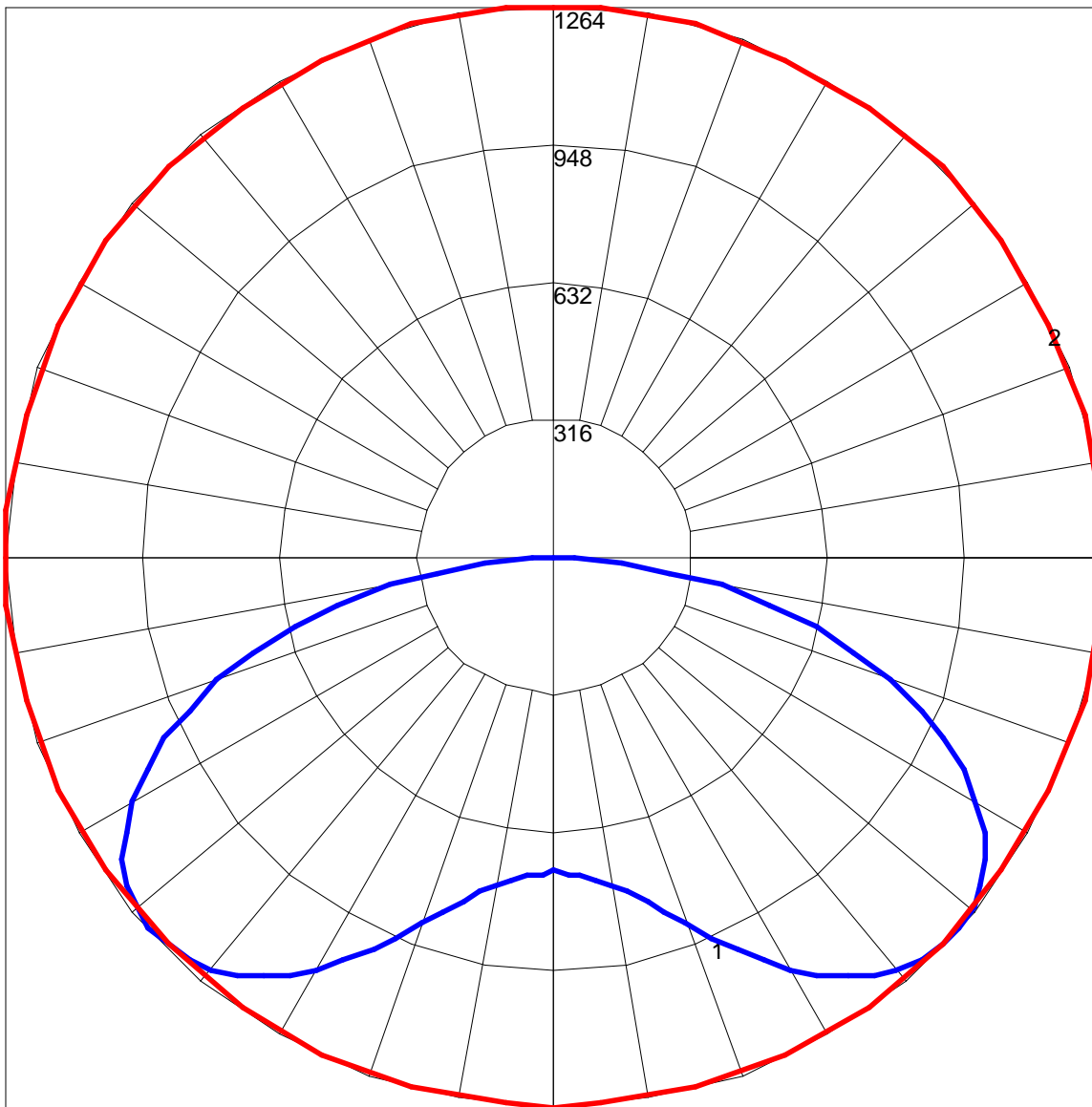
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 1263.779 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.)