



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EXN-EGLED-06L-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-06L-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 | 6600 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 140 |
| Total Luminaire Watts | 47 |
| 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 | 17723 | 17616 | 17569 |
| 55 | 18443 | 18273 | 18169 |
| 65 | 17132 | 16922 | 16922 |
| 75 | 12944 | 12871 | 12724 |
| 85 | 4105 | 4252 | 4203 |

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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 | 925 | 925 | 925 | 925 | 925 | 925 | 925 | 925 | 925 | 925 |
| 2.5 | 927 | 927 | 927 | 927 | 927 | 927 | 927 | 927 | 927 | 929 |
| 5.0 | 935 | 937 | 937 | 937 | 937 | 937 | 937 | 937 | 937 | 939 |
| 7.5 | 954 | 952 | 952 | 954 | 954 | 954 | 952 | 954 | 954 | 954 |
| 10.0 | 979 | 977 | 977 | 977 | 977 | 977 | 977 | 977 | 977 | 977 |
| 12.5 | 1008 | 1008 | 1006 | 1008 | 1006 | 1008 | 1008 | 1008 | 1008 | 1008 |
| 15.0 | 1049 | 1047 | 1047 | 1047 | 1045 | 1047 | 1047 | 1049 | 1047 | 1047 |
| 17.5 | 1090 | 1090 | 1088 | 1088 | 1088 | 1088 | 1090 | 1090 | 1088 | 1088 |
| 20.0 | 1136 | 1138 | 1138 | 1136 | 1136 | 1138 | 1136 | 1136 | 1134 | 1134 |
| 22.5 | 1188 | 1188 | 1188 | 1186 | 1188 | 1186 | 1186 | 1186 | 1186 | 1186 |
| 25.0 | 1240 | 1240 | 1240 | 1236 | 1238 | 1238 | 1238 | 1238 | 1238 | 1236 |
| 27.5 | 1290 | 1292 | 1292 | 1290 | 1290 | 1289 | 1287 | 1287 | 1289 | 1289 |
| 30.0 | 1339 | 1339 | 1339 | 1339 | 1337 | 1335 | 1335 | 1335 | 1335 | 1333 |
| 32.5 | 1383 | 1383 | 1383 | 1383 | 1381 | 1379 | 1377 | 1377 | 1375 | 1377 |
| 35.0 | 1422 | 1420 | 1420 | 1420 | 1418 | 1416 | 1414 | 1414 | 1414 | 1414 |
| 37.5 | 1453 | 1451 | 1451 | 1449 | 1447 | 1445 | 1443 | 1443 | 1441 | 1441 |
| 40.0 | 1474 | 1474 | 1474 | 1472 | 1470 | 1468 | 1464 | 1464 | 1464 | 1464 |
| 42.5 | 1489 | 1489 | 1487 | 1486 | 1484 | 1482 | 1480 | 1478 | 1478 | 1476 |
| 45.0 | 1495 | 1495 | 1493 | 1491 | 1487 | 1486 | 1484 | 1482 | 1484 | 1482 |
| 47.5 | 1491 | 1491 | 1489 | 1486 | 1482 | 1480 | 1480 | 1478 | 1478 | 1476 |
| 50.0 | 1476 | 1476 | 1474 | 1470 | 1466 | 1464 | 1462 | 1460 | 1460 | 1460 |
| 52.5 | 1451 | 1449 | 1447 | 1443 | 1439 | 1437 | 1437 | 1435 | 1433 | 1433 |
| 55.0 | 1414 | 1412 | 1408 | 1404 | 1401 | 1401 | 1399 | 1399 | 1397 | 1395 |
| 57.5 | 1366 | 1364 | 1358 | 1350 | 1348 | 1348 | 1350 | 1348 | 1348 | 1343 |
| 60.0 | 1306 | 1302 | 1296 | 1290 | 1287 | 1287 | 1289 | 1289 | 1287 | 1283 |
| 62.5 | 1225 | 1225 | 1223 | 1217 | 1213 | 1213 | 1211 | 1211 | 1211 | 1209 |
| 65.0 | 1142 | 1142 | 1138 | 1134 | 1130 | 1128 | 1126 | 1126 | 1126 | 1126 |
| 67.5 | 1049 | 1047 | 1043 | 1039 | 1035 | 1034 | 1032 | 1030 | 1034 | 1034 |
| 70.0 | 943 | 941 | 939 | 933 | 931 | 927 | 929 | 927 | 927 | 929 |
| 72.5 | 829 | 831 | 829 | 823 | 815 | 819 | 819 | 819 | 815 | 813 |
| 75.0 | 707 | 711 | 709 | 697 | 694 | 703 | 701 | 701 | 699 | 692 |
| 77.5 | 574 | 580 | 578 | 566 | 564 | 572 | 576 | 574 | 574 | 562 |
| 80.0 | 435 | 442 | 440 | 435 | 433 | 439 | 440 | 442 | 439 | 431 |
| 82.5 | 296 | 305 | 303 | 301 | 299 | 303 | 299 | 305 | 301 | 297 |
| 85.0 | 168 | 176 | 174 | 172 | 172 | 174 | 170 | 170 | 172 | 172 |
| 87.5 | 60 | 62 | 64 | 64 | 64 | 64 | 62 | 62 | 64 | 66 |
| 90.0 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 |
| 92.5 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 95.0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 12 |
| 97.5 | 12 | 14 | 12 | 14 | 12 | 12 | 12 | 12 | 14 | 14 |
| 100.0 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 102.5 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 105.0 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| 107.5 | 23 | 25 | 25 | 23 | 23 | 23 | 23 | 23 | 25 | 25 |
| 110.0 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| 112.5 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| 115.0 | 35 | 35 | 35 | 35 | 37 | 37 | 37 | 35 | 35 | 35 |
| 117.5 | 39 | 39 | 39 | 41 | 41 | 41 | 41 | 41 | 39 | 41 |
| 120.0 | 44 | 44 | 42 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |
| 122.5 | 50 | 48 | 48 | 48 | 48 | 50 | 48 | 48 | 48 | 48 |
| 125.0 | 56 | 54 | 52 | 54 | 54 | 54 | 54 | 54 | 54 | 54 |
| 127.5 | 60 | 60 | 58 | 60 | 58 | 60 | 60 | 60 | 58 | 60 |
| 130.0 | 66 | 66 | 64 | 64 | 64 | 66 | 64 | 66 | 64 | 64 |
| 132.5 | 71 | 70 | 68 | 70 | 68 | 70 | 68 | 70 | 68 | 70 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-----|-----|-----|----|----|----|----|----|----|----|
| 135.0 | 77 | 75 | 75 | 75 | 73 | 77 | 73 | 75 | 73 | 73 |
| 137.5 | 83 | 81 | 79 | 81 | 77 | 81 | 79 | 79 | 77 | 77 |
| 140.0 | 87 | 85 | 83 | 85 | 79 | 87 | 85 | 87 | 83 | 81 |
| 142.5 | 91 | 91 | 89 | 91 | 85 | 91 | 89 | 89 | 83 | 83 |
| 145.0 | 93 | 93 | 93 | 95 | 89 | 95 | 91 | 89 | 87 | 85 |
| 147.5 | 100 | 97 | 97 | 99 | 91 | 95 | 91 | 89 | 87 | 87 |
| 150.0 | 104 | 102 | 100 | 97 | 93 | 93 | 91 | 89 | 87 | 87 |
| 152.5 | 106 | 104 | 100 | 95 | 91 | 91 | 91 | 89 | 89 | 85 |
| 155.0 | 97 | 97 | 93 | 87 | 87 | 91 | 87 | 89 | 87 | 85 |
| 157.5 | 87 | 87 | 85 | 85 | 85 | 89 | 89 | 89 | 91 | 85 |
| 160.0 | 81 | 81 | 79 | 79 | 85 | 85 | 87 | 87 | 91 | 87 |
| 162.5 | 79 | 79 | 79 | 77 | 77 | 81 | 83 | 83 | 87 | 89 |
| 165.0 | 75 | 75 | 71 | 71 | 73 | 75 | 79 | 79 | 85 | 91 |
| 167.5 | 71 | 71 | 70 | 71 | 68 | 71 | 70 | 73 | 85 | 91 |
| 170.0 | 64 | 66 | 66 | 66 | 66 | 60 | 62 | 64 | 73 | 75 |
| 172.5 | 58 | 58 | 60 | 58 | 58 | 54 | 58 | 62 | 66 | 68 |
| 175.0 | 50 | 48 | 50 | 52 | 52 | 48 | 54 | 50 | 54 | 52 |
| 177.5 | 35 | 33 | 33 | 35 | 29 | 33 | 35 | 37 | 35 | 33 |
| 180.0 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |

Vert. Angles **Horizontal Angles**

| | |
|------|-----------|
| | <u>90</u> |
| 0.0 | 925 |
| 2.5 | 927 |
| 5.0 | 939 |
| 7.5 | 954 |
| 10.0 | 977 |
| 12.5 | 1008 |
| 15.0 | 1045 |
| 17.5 | 1088 |
| 20.0 | 1132 |
| 22.5 | 1186 |
| 25.0 | 1236 |
| 27.5 | 1289 |
| 30.0 | 1335 |
| 32.5 | 1377 |
| 35.0 | 1414 |
| 37.5 | 1443 |
| 40.0 | 1464 |
| 42.5 | 1476 |
| 45.0 | 1482 |
| 47.5 | 1476 |
| 50.0 | 1460 |
| 52.5 | 1433 |
| 55.0 | 1393 |
| 57.5 | 1345 |
| 60.0 | 1283 |
| 62.5 | 1211 |
| 65.0 | 1128 |
| 67.5 | 1034 |
| 70.0 | 931 |
| 72.5 | 817 |
| 75.0 | 695 |
| 77.5 | 570 |
| 80.0 | 437 |

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CANDELA TABULATION - (Cont.)

| | |
|--------------|------------|
| 82.5 | 301 |
| 85.0 | 172 |
| 87.5 | 66 |
| 90.0 | 14 |
| 92.5 | 8 |
| 95.0 | 10 |
| 97.5 | 12 |
| 100.0 | 15 |
| 102.5 | 17 |
| 105.0 | 21 |
| 107.5 | 25 |
| 110.0 | 27 |
| 112.5 | 31 |
| 115.0 | 35 |
| 117.5 | 39 |
| 120.0 | 44 |
| 122.5 | 50 |
| 125.0 | 54 |
| 127.5 | 60 |
| 130.0 | 66 |
| 132.5 | 70 |
| 135.0 | 75 |
| 137.5 | 77 |
| 140.0 | 85 |
| 142.5 | 85 |
| 145.0 | 85 |
| 147.5 | 85 |
| 150.0 | 85 |
| 152.5 | 85 |
| 155.0 | 83 |
| 157.5 | 85 |
| 160.0 | 87 |
| 162.5 | 85 |
| 165.0 | 93 |
| 167.5 | 87 |
| 170.0 | 81 |
| 172.5 | 64 |
| 175.0 | 52 |
| 177.5 | 39 |
| 180.0 | 27 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 390.65 | N.A. | 5.90 |
| 0-30 | 966.22 | N.A. | 14.60 |
| 0-40 | 1854.27 | N.A. | 28.10 |
| 0-60 | 4247.93 | N.A. | 64.40 |
| 0-80 | 6093.33 | N.A. | 92.30 |
| 0-90 | 6300.33 | N.A. | 95.50 |
| 10-90 | 6209.62 | N.A. | 94.10 |
| 20-40 | 1463.62 | N.A. | 22.20 |
| 20-50 | 2609.51 | N.A. | 39.50 |
| 40-70 | 3506.33 | N.A. | 53.10 |
| 60-80 | 1845.4 | N.A. | 28.00 |
| 70-80 | 732.73 | N.A. | 11.10 |
| 80-90 | 207.01 | N.A. | 3.10 |
| 90-110 | 33.74 | N.A. | 0.50 |
| 90-120 | 68.95 | N.A. | 1.00 |
| 90-130 | 117.15 | N.A. | 1.80 |
| 90-150 | 230.87 | N.A. | 3.50 |
| 90-180 | 299.84 | N.A. | 4.50 |
| 110-180 | 266.10 | N.A. | 4.00 |
| 0-180 | 6600.17 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 90.71 |
| 10-20 | 299.94 |
| 20-30 | 575.57 |
| 30-40 | 888.05 |
| 40-50 | 1145.89 |
| 50-60 | 1247.77 |
| 60-70 | 1112.67 |
| 70-80 | 732.73 |
| 80-90 | 207.01 |
| 90-100 | 11.88 |
| 100-110 | 21.86 |
| 110-120 | 35.21 |
| 120-130 | 48.21 |
| 130-140 | 57.30 |
| 140-150 | 56.42 |
| 150-160 | 41.57 |
| 160-170 | 22.15 |
| 170-180 | 5.25 |

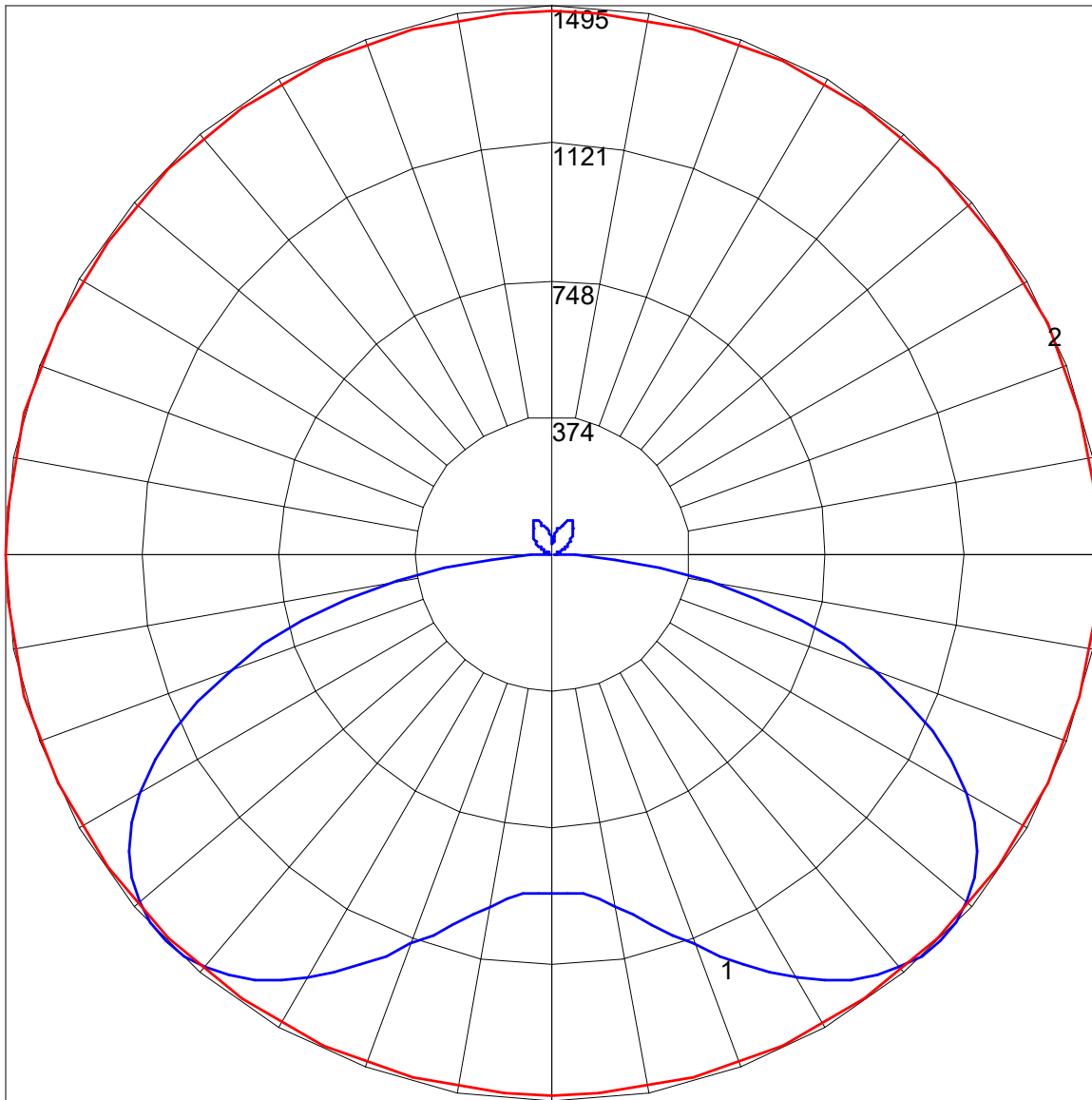
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1495 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.)