



IES INDOOR REPORT
PHOTOMETRIC FILENAME : EG3-4-LED-04L-DA-S-40-80.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3606
 [TESTLAB] TUV SUD America
 [TESTDATE] 12/7/2018 11:10:40 AM
 [ISSUEDATE] 07/22/2021
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] EG3-4-LED-04L-DA-S-40-80
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
 [OTHER] SCALED FROM ORIGINAL TEST DATA
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor
 [SEARCH_COLORTEMP] 4000

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4511 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 141 |
| Total Luminaire Watts | 32 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.24 |
| Spacing Criterion (Diagonal) | 1.32 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.40 ft |
| Luminous Height | 0.17 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 8725 | 6834 | 6523 |
| 55 | 8286 | 5646 | 5055 |
| 65 | 8441 | 4577 | 3467 |
| 75 | 9444 | 3852 | 2028 |
| 85 | 13547 | 3141 | 765 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> | <u>202.5</u> |
|-------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 1552 | 1552 | 1552 | 1552 | 1552 | 1552 | 1552 | 1552 | 1552 | 1552 |
| 2.5 | 1599 | 1578 | 1534 | 1519 | 1503 | 1519 | 1534 | 1578 | 1599 | 1578 |
| 5.0 | 1588 | 1569 | 1526 | 1513 | 1499 | 1513 | 1526 | 1569 | 1588 | 1569 |
| 7.5 | 1574 | 1557 | 1517 | 1505 | 1491 | 1505 | 1517 | 1557 | 1574 | 1557 |
| 10.0 | 1550 | 1538 | 1503 | 1491 | 1479 | 1491 | 1503 | 1538 | 1550 | 1538 |
| 12.5 | 1517 | 1508 | 1482 | 1474 | 1463 | 1474 | 1482 | 1508 | 1517 | 1508 |
| 15.0 | 1478 | 1472 | 1456 | 1456 | 1447 | 1456 | 1456 | 1472 | 1478 | 1472 |
| 17.5 | 1438 | 1435 | 1424 | 1437 | 1427 | 1437 | 1424 | 1435 | 1438 | 1435 |
| 20.0 | 1392 | 1393 | 1389 | 1412 | 1405 | 1412 | 1389 | 1393 | 1392 | 1393 |
| 22.5 | 1343 | 1346 | 1352 | 1383 | 1380 | 1383 | 1352 | 1346 | 1343 | 1346 |
| 25.0 | 1297 | 1294 | 1310 | 1348 | 1351 | 1348 | 1310 | 1294 | 1297 | 1294 |
| 27.5 | 1261 | 1251 | 1262 | 1311 | 1317 | 1311 | 1262 | 1251 | 1261 | 1251 |
| 30.0 | 1235 | 1217 | 1214 | 1267 | 1281 | 1267 | 1214 | 1217 | 1235 | 1217 |
| 32.5 | 1207 | 1189 | 1169 | 1223 | 1241 | 1223 | 1169 | 1189 | 1207 | 1189 |
| 35.0 | 1170 | 1158 | 1128 | 1174 | 1196 | 1174 | 1128 | 1158 | 1170 | 1158 |
| 37.5 | 1123 | 1119 | 1087 | 1121 | 1146 | 1121 | 1087 | 1119 | 1123 | 1119 |
| 40.0 | 1070 | 1067 | 1047 | 1066 | 1091 | 1066 | 1047 | 1067 | 1070 | 1067 |
| 42.5 | 1012 | 1009 | 1002 | 1006 | 1033 | 1006 | 1002 | 1009 | 1012 | 1009 |
| 45.0 | 956 | 952 | 951 | 944 | 971 | 944 | 951 | 952 | 956 | 952 |
| 47.5 | 904 | 898 | 895 | 882 | 905 | 882 | 895 | 898 | 904 | 898 |
| 50.0 | 850 | 842 | 835 | 820 | 837 | 820 | 835 | 842 | 850 | 842 |
| 52.5 | 798 | 786 | 771 | 758 | 766 | 758 | 771 | 786 | 798 | 786 |
| 55.0 | 749 | 731 | 704 | 689 | 687 | 689 | 704 | 731 | 749 | 731 |
| 57.5 | 706 | 679 | 644 | 628 | 613 | 628 | 644 | 679 | 706 | 679 |
| 60.0 | 660 | 637 | 585 | 564 | 542 | 564 | 585 | 637 | 660 | 637 |
| 62.5 | 617 | 594 | 533 | 504 | 476 | 504 | 533 | 594 | 617 | 594 |
| 65.0 | 578 | 556 | 487 | 444 | 412 | 444 | 487 | 556 | 578 | 556 |
| 67.5 | 538 | 516 | 444 | 386 | 352 | 386 | 444 | 516 | 538 | 516 |
| 70.0 | 499 | 477 | 404 | 333 | 297 | 333 | 404 | 477 | 499 | 477 |
| 72.5 | 459 | 438 | 364 | 284 | 246 | 284 | 364 | 438 | 459 | 438 |
| 75.0 | 420 | 399 | 327 | 241 | 199 | 241 | 327 | 399 | 420 | 399 |
| 77.5 | 380 | 362 | 291 | 203 | 157 | 203 | 291 | 362 | 380 | 362 |
| 80.0 | 339 | 321 | 256 | 168 | 119 | 168 | 256 | 321 | 339 | 321 |
| 82.5 | 297 | 283 | 223 | 138 | 85 | 138 | 223 | 283 | 297 | 283 |
| 85.0 | 259 | 247 | 191 | 112 | 57 | 112 | 191 | 247 | 259 | 247 |
| 87.5 | 226 | 215 | 164 | 90 | 36 | 90 | 164 | 215 | 226 | 215 |
| 90.0 | 197 | 186 | 139 | 73 | 26 | 73 | 139 | 186 | 197 | 186 |
| 92.5 | 174 | 165 | 122 | 61 | 24 | 61 | 122 | 165 | 174 | 165 |
| 95.0 | 157 | 149 | 110 | 52 | 22 | 52 | 110 | 149 | 157 | 149 |
| 97.5 | 141 | 133 | 98 | 43 | 20 | 43 | 98 | 133 | 141 | 133 |
| 100.0 | 125 | 119 | 87 | 35 | 18 | 35 | 87 | 119 | 125 | 119 |
| 102.5 | 111 | 104 | 76 | 28 | 16 | 28 | 76 | 104 | 111 | 104 |
| 105.0 | 100 | 94 | 66 | 22 | 14 | 22 | 66 | 94 | 100 | 94 |
| 107.5 | 90 | 83 | 57 | 16 | 11 | 16 | 57 | 83 | 90 | 83 |
| 110.0 | 80 | 73 | 48 | 10 | 9 | 10 | 48 | 73 | 80 | 73 |
| 112.5 | 71 | 64 | 40 | 5 | 7 | 5 | 40 | 64 | 71 | 64 |
| 115.0 | 63 | 56 | 32 | 3 | 6 | 3 | 32 | 56 | 63 | 56 |
| 117.5 | 55 | 48 | 25 | 3 | 5 | 3 | 25 | 48 | 55 | 48 |
| 120.0 | 47 | 40 | 18 | 2 | 3 | 2 | 18 | 40 | 47 | 40 |
| 122.5 | 40 | 33 | 11 | 1 | 2 | 1 | 11 | 33 | 40 | 33 |
| 125.0 | 33 | 27 | 6 | 1 | 1 | 1 | 6 | 27 | 33 | 27 |
| 127.5 | 27 | 20 | 1 | 0 | 1 | 0 | 1 | 20 | 27 | 20 |
| 130.0 | 20 | 14 | 0 | 0 | 1 | 0 | 0 | 14 | 20 | 14 |
| 132.5 | 14 | 8 | 1 | 1 | 1 | 1 | 1 | 8 | 14 | 8 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|
| 135.0 | 8 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 8 | 2 |
| 137.5 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 |
| 140.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 142.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 147.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 152.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 162.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 167.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 172.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 177.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Angles **Horizontal Angles**

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 1552 | 1552 | 1552 | 1552 | 1552 | 1552 | 1552 |
| 2.5 | 1534 | 1519 | 1503 | 1519 | 1534 | 1578 | 1599 |
| 5.0 | 1526 | 1513 | 1499 | 1513 | 1526 | 1569 | 1588 |
| 7.5 | 1517 | 1505 | 1491 | 1505 | 1517 | 1557 | 1574 |
| 10.0 | 1503 | 1491 | 1479 | 1491 | 1503 | 1538 | 1550 |
| 12.5 | 1482 | 1474 | 1463 | 1474 | 1482 | 1508 | 1517 |
| 15.0 | 1456 | 1456 | 1447 | 1456 | 1456 | 1472 | 1478 |
| 17.5 | 1424 | 1437 | 1427 | 1437 | 1424 | 1435 | 1438 |
| 20.0 | 1389 | 1412 | 1405 | 1412 | 1389 | 1393 | 1392 |
| 22.5 | 1352 | 1383 | 1380 | 1383 | 1352 | 1346 | 1343 |
| 25.0 | 1310 | 1348 | 1351 | 1348 | 1310 | 1294 | 1297 |
| 27.5 | 1262 | 1311 | 1317 | 1311 | 1262 | 1251 | 1261 |
| 30.0 | 1214 | 1267 | 1281 | 1267 | 1214 | 1217 | 1235 |
| 32.5 | 1169 | 1223 | 1241 | 1223 | 1169 | 1189 | 1207 |
| 35.0 | 1128 | 1174 | 1196 | 1174 | 1128 | 1158 | 1170 |
| 37.5 | 1087 | 1121 | 1146 | 1121 | 1087 | 1119 | 1123 |
| 40.0 | 1047 | 1066 | 1091 | 1066 | 1047 | 1067 | 1070 |
| 42.5 | 1002 | 1006 | 1033 | 1006 | 1002 | 1009 | 1012 |
| 45.0 | 951 | 944 | 971 | 944 | 951 | 952 | 956 |
| 47.5 | 895 | 882 | 905 | 882 | 895 | 898 | 904 |
| 50.0 | 835 | 820 | 837 | 820 | 835 | 842 | 850 |
| 52.5 | 771 | 758 | 766 | 758 | 771 | 786 | 798 |
| 55.0 | 704 | 689 | 687 | 689 | 704 | 731 | 749 |
| 57.5 | 644 | 628 | 613 | 628 | 644 | 679 | 706 |
| 60.0 | 585 | 564 | 542 | 564 | 585 | 637 | 660 |
| 62.5 | 533 | 504 | 476 | 504 | 533 | 594 | 617 |
| 65.0 | 487 | 444 | 412 | 444 | 487 | 556 | 578 |
| 67.5 | 444 | 386 | 352 | 386 | 444 | 516 | 538 |
| 70.0 | 404 | 333 | 297 | 333 | 404 | 477 | 499 |
| 72.5 | 364 | 284 | 246 | 284 | 364 | 438 | 459 |
| 75.0 | 327 | 241 | 199 | 241 | 327 | 399 | 420 |
| 77.5 | 291 | 203 | 157 | 203 | 291 | 362 | 380 |
| 80.0 | 256 | 168 | 119 | 168 | 256 | 321 | 339 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-------|-----|-----|----|-----|-----|-----|-----|
| 82.5 | 223 | 138 | 85 | 138 | 223 | 283 | 297 |
| 85.0 | 191 | 112 | 57 | 112 | 191 | 247 | 259 |
| 87.5 | 164 | 90 | 36 | 90 | 164 | 215 | 226 |
| 90.0 | 139 | 73 | 26 | 73 | 139 | 186 | 197 |
| 92.5 | 122 | 61 | 24 | 61 | 122 | 165 | 174 |
| 95.0 | 110 | 52 | 22 | 52 | 110 | 149 | 157 |
| 97.5 | 98 | 43 | 20 | 43 | 98 | 133 | 141 |
| 100.0 | 87 | 35 | 18 | 35 | 87 | 119 | 125 |
| 102.5 | 76 | 28 | 16 | 28 | 76 | 104 | 111 |
| 105.0 | 66 | 22 | 14 | 22 | 66 | 94 | 100 |
| 107.5 | 57 | 16 | 11 | 16 | 57 | 83 | 90 |
| 110.0 | 48 | 10 | 9 | 10 | 48 | 73 | 80 |
| 112.5 | 40 | 5 | 7 | 5 | 40 | 64 | 71 |
| 115.0 | 32 | 3 | 6 | 3 | 32 | 56 | 63 |
| 117.5 | 25 | 3 | 5 | 3 | 25 | 48 | 55 |
| 120.0 | 18 | 2 | 3 | 2 | 18 | 40 | 47 |
| 122.5 | 11 | 1 | 2 | 1 | 11 | 33 | 40 |
| 125.0 | 6 | 1 | 1 | 1 | 6 | 27 | 33 |
| 127.5 | 1 | 0 | 1 | 0 | 1 | 20 | 27 |
| 130.0 | 0 | 0 | 1 | 0 | 0 | 14 | 20 |
| 132.5 | 1 | 1 | 1 | 1 | 1 | 8 | 14 |
| 135.0 | 1 | 1 | 1 | 1 | 1 | 2 | 8 |
| 137.5 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
| 140.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 142.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 147.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 152.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 162.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 167.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 172.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 177.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 558.05 | N.A. | 12.40 |
| 0-30 | 1166.44 | N.A. | 25.90 |
| 0-40 | 1891.37 | N.A. | 41.90 |
| 0-60 | 3264.03 | N.A. | 72.40 |
| 0-80 | 4094.75 | N.A. | 90.80 |
| 0-90 | 4291.31 | N.A. | 95.10 |
| 10-90 | 4145.29 | N.A. | 91.90 |
| 20-40 | 1333.32 | N.A. | 29.60 |
| 20-50 | 2068.07 | N.A. | 45.80 |
| 40-70 | 1864.64 | N.A. | 41.30 |
| 60-80 | 830.73 | N.A. | 18.40 |
| 70-80 | 338.74 | N.A. | 7.50 |
| 80-90 | 196.56 | N.A. | 4.40 |
| 90-110 | 173.73 | N.A. | 3.90 |
| 90-120 | 205.49 | N.A. | 4.60 |
| 90-130 | 217.21 | N.A. | 4.80 |
| 90-150 | 219.37 | N.A. | 4.90 |
| 90-180 | 219.37 | N.A. | 4.90 |
| 110-180 | 45.64 | N.A. | 1.00 |
| 0-180 | 4510.68 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 146.03 |
| 10-20 | 412.02 |
| 20-30 | 608.38 |
| 30-40 | 724.94 |
| 40-50 | 734.75 |
| 50-60 | 637.91 |
| 60-70 | 491.98 |
| 70-80 | 338.74 |
| 80-90 | 196.56 |
| 90-100 | 110.05 |
| 100-110 | 63.67 |
| 110-120 | 31.76 |
| 120-130 | 11.72 |
| 130-140 | 2.16 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

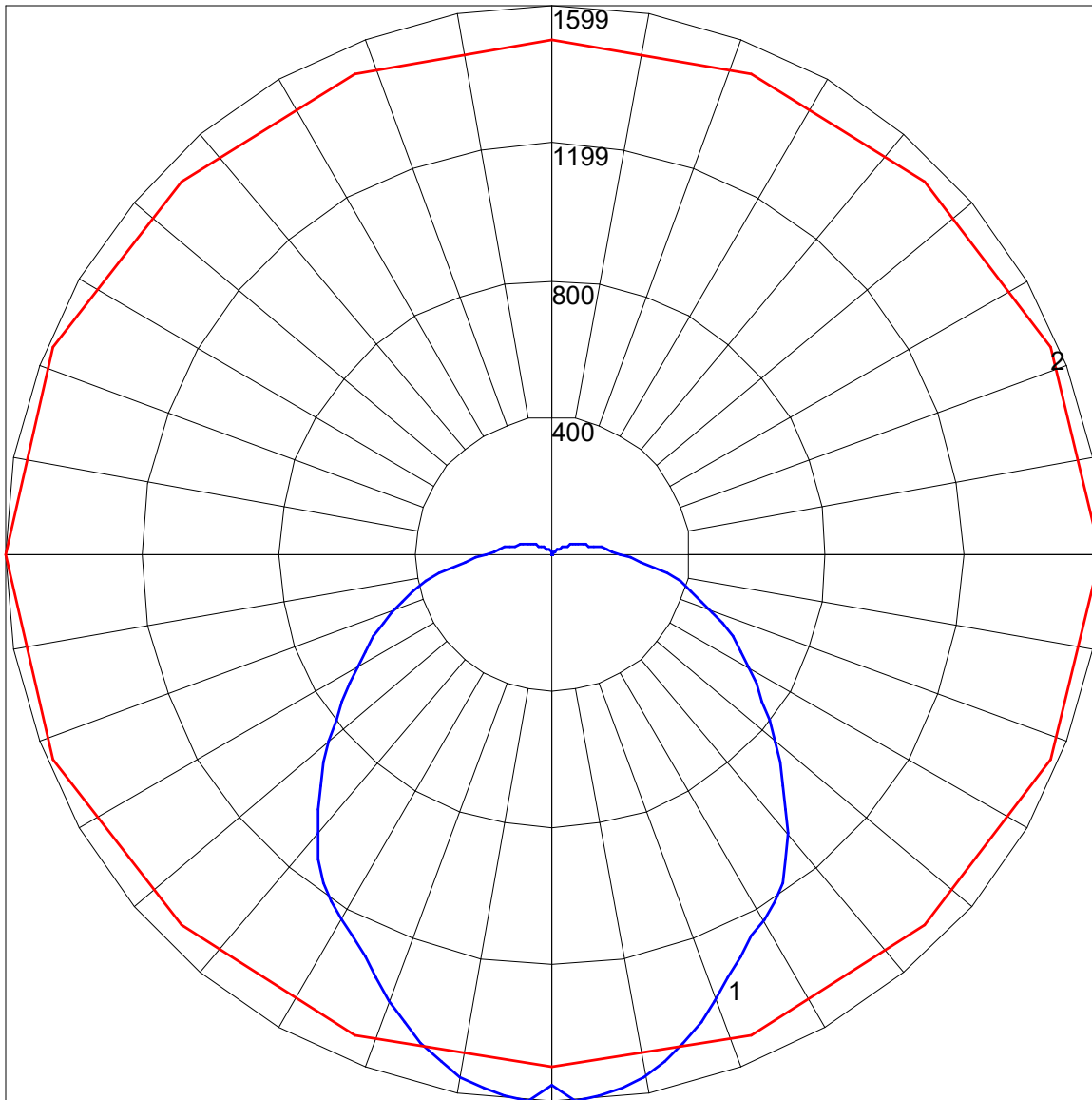
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 108 | 108 | 108 | 103 | 103 | 103 | 98 | 98 | 98 | 95 |
| 1 | 107 | 101 | 97 | 93 | 103 | 99 | 94 | 91 | 93 | 90 | 87 | 89 | 86 | 83 | 84 | 82 | 80 | 77 |
| 2 | 97 | 88 | 81 | 75 | 94 | 86 | 79 | 74 | 81 | 76 | 71 | 77 | 73 | 69 | 74 | 70 | 67 | 64 |
| 3 | 88 | 77 | 69 | 62 | 85 | 75 | 68 | 61 | 72 | 65 | 60 | 68 | 63 | 58 | 65 | 60 | 56 | 54 |
| 4 | 81 | 69 | 60 | 53 | 78 | 67 | 59 | 52 | 64 | 57 | 51 | 61 | 55 | 50 | 58 | 53 | 49 | 46 |
| 5 | 74 | 61 | 52 | 46 | 72 | 60 | 51 | 45 | 57 | 50 | 44 | 55 | 48 | 43 | 52 | 47 | 42 | 40 |
| 6 | 69 | 55 | 46 | 40 | 66 | 54 | 46 | 39 | 52 | 44 | 39 | 50 | 43 | 38 | 48 | 42 | 37 | 35 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 47 | 40 | 34 | 45 | 39 | 34 | 43 | 38 | 33 | 31 |
| 8 | 59 | 46 | 37 | 31 | 57 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 40 | 34 | 30 | 28 |
| 9 | 55 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |
| 10 | 52 | 39 | 31 | 26 | 50 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 34 | 29 | 24 | 23 |

POLAR GRAPH



Maximum Candela = 1599 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)