

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1317699

Luminaire Tested: LDSQA3D17R659827DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R659827DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

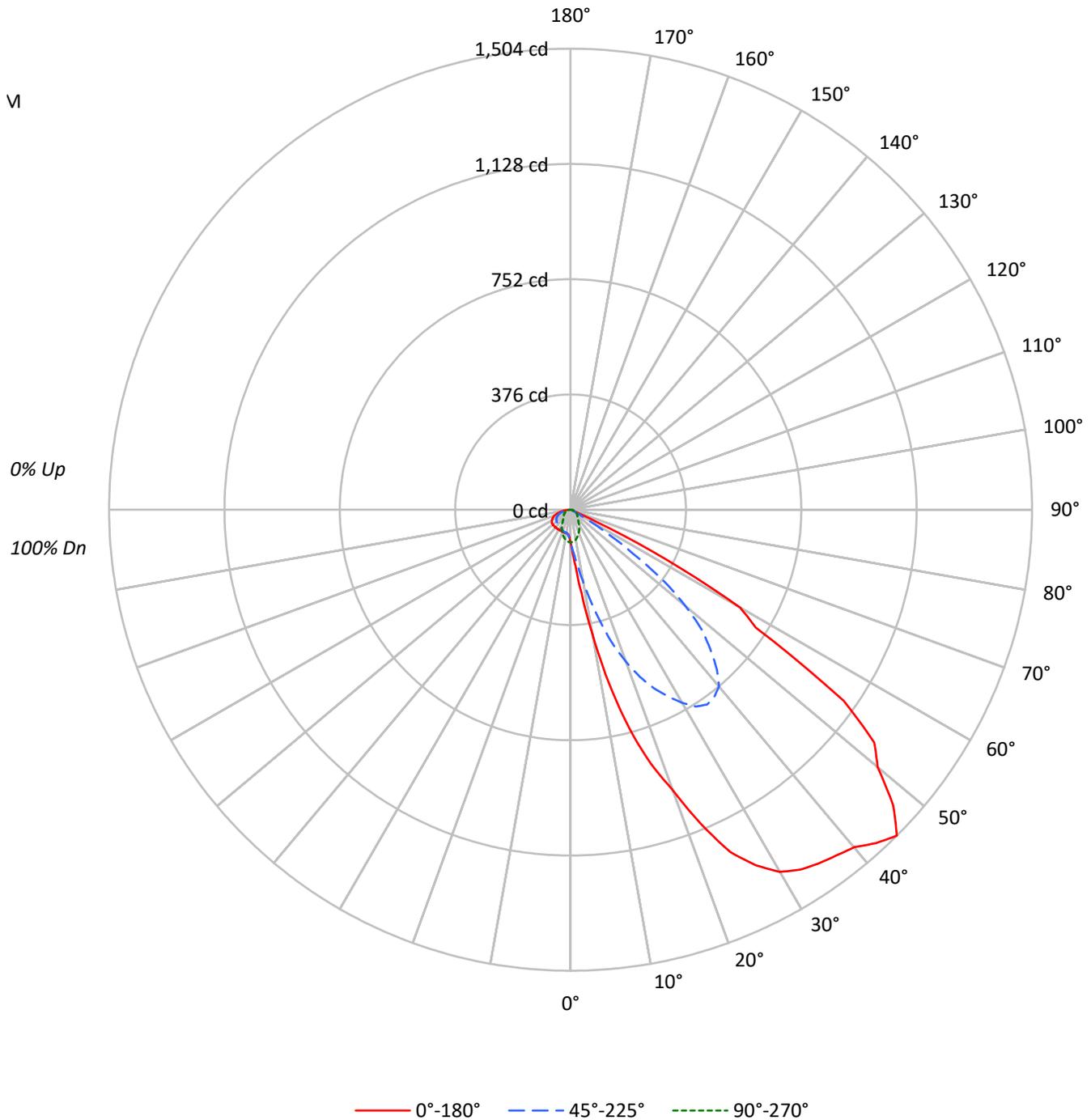
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1091.0 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





TEST NUMBER: P1317699

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 87 | |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 94 | 91 | 92 | 90 | 89 | 87 | 87 | 87 | 87 | |
| 2 | 101 | 93 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 74 | 74 | 74 | 74 | |
| 3 | 92 | 82 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 68 | 64 | 62 | 62 | 62 | 62 | |
| 4 | 84 | 73 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 57 | 67 | 61 | 56 | 64 | 59 | 55 | 53 | 53 | 53 | 53 | |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | 45 | 45 | 45 | |
| 6 | 71 | 57 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 46 | 41 | 39 | 39 | 39 | 39 | |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 36 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 | 34 | 34 | 34 | |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | 29 | 29 | 29 | |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | 26 | 26 | 26 | |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 23 | 23 | 23 | 23 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 18273 | 18273 | 18273 | 18273 | 18273 |
| 5° | 31966 | 26105 | 17962 | 14557 | 13986 |
| 10° | 72313 | 42093 | 17226 | 13396 | 13588 |
| 15° | 131459 | 67682 | 15993 | 13461 | 13854 |
| 20° | 178235 | 96641 | 14442 | 13434 | 14039 |
| 25° | 234265 | 122016 | 12675 | 13093 | 14347 |
| 30° | 271273 | 144655 | 10878 | 13046 | 15014 |
| 35° | 296235 | 163066 | 9209 | 13330 | 15873 |
| 40° | 323157 | 169200 | 8116 | 14029 | 16974 |
| 45° | 366338 | 156925 | 7721 | 14930 | 18389 |
| 50° | 349945 | 131018 | 7609 | 15835 | 20229 |
| 55° | 326174 | 73564 | 7897 | 17085 | 22339 |
| 60° | 219653 | 15810 | 7922 | 18083 | 24111 |
| 65° | 33864 | 3994 | 7580 | 18705 | 26285 |
| 70° | 3877 | 3877 | 7150 | 19286 | 28098 |
| 75° | 3660 | 3660 | 6521 | 18898 | 28413 |
| 80° | 3273 | 4364 | 6546 | 17356 | 28167 |
| 85° | 2174 | 4347 | 6521 | 17389 | 25886 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 366338 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.9 | 1.2 |
| 10°-20° | 69.4 | 6.4 |
| 20°-30° | 163.0 | 14.9 |
| 30°-40° | 246.3 | 22.6 |
| 40°-50° | 283.1 | 25.9 |
| 50°-60° | 224.7 | 20.6 |
| 60°-70° | 67.3 | 6.2 |
| 70°-80° | 18.3 | 1.7 |
| 80°-90° | 6.2 | 0.6 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 245.2 | 22.5 |
| 0°-40° | 491.5 | 45.0 |
| 0°-60° | 999.3 | 91.6 |
| 0°-90° | 1091.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1091.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 106 | 106 | 106 | 106 | 106 | |
| 5° | 185 | 151 | 104 | 84 | 81 | 25 |
| 15° | 737 | 380 | 90 | 76 | 78 | 212 |
| 25° | 1233 | 642 | 67 | 69 | 76 | 563 |
| 35° | 1409 | 776 | 44 | 63 | 76 | 884 |
| 45° | 1504 | 644 | 32 | 61 | 76 | 1117 |
| 55° | 1086 | 245 | 26 | 57 | 74 | 895 |
| 65° | 83 | 10 | 19 | 46 | 64 | 186 |
| 75° | 6 | 6 | 10 | 28 | 43 | 6 |
| 85° | 1 | 2 | 3 | 9 | 13 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1317699

CATALOG NUMBER: LDSQA3D17R659827DE010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|-------|
| 0° | 106.1 | 106.1 | 106.1 | 106.1 | 106.1 | 106.1 | 106.1 | 106.1 | 106.1 | 106.1 | 106.1 |
| 2.5° | 134.6 | 135.6 | 134.6 | 134.6 | 133.5 | 132.4 | 124.7 | 116.0 | 106.1 | 98.5 | 93.0 |
| 5° | 184.9 | 186.0 | 182.7 | 182.7 | 180.5 | 177.2 | 151.0 | 125.8 | 103.9 | 91.9 | 84.2 |
| 7.5° | 273.5 | 277.9 | 272.4 | 265.8 | 253.8 | 251.6 | 188.2 | 135.6 | 101.7 | 85.3 | 78.8 |
| 10° | 413.5 | 410.2 | 404.7 | 391.6 | 370.8 | 361.0 | 240.7 | 145.5 | 98.5 | 80.9 | 76.6 |
| 12.5° | 583.1 | 574.3 | 567.7 | 543.7 | 515.2 | 498.8 | 306.3 | 154.2 | 94.1 | 76.6 | 75.5 |
| 15° | 737.3 | 730.7 | 715.4 | 692.4 | 657.4 | 644.3 | 379.6 | 159.7 | 89.7 | 73.3 | 75.5 |
| 17.5° | 867.5 | 860.9 | 852.2 | 829.2 | 793.1 | 773.4 | 461.6 | 163.0 | 84.2 | 71.1 | 74.4 |
| 20° | 972.5 | 968.1 | 956.1 | 937.5 | 901.4 | 882.8 | 527.3 | 163.0 | 78.8 | 68.9 | 73.3 |
| 22.5° | 1108.1 | 1098.3 | 1083.0 | 1055.6 | 1010.8 | 982.3 | 589.6 | 159.7 | 73.3 | 66.7 | 71.1 |
| 25° | 1232.8 | 1226.3 | 1206.6 | 1173.8 | 1125.6 | 1097.2 | 642.1 | 153.1 | 66.7 | 63.4 | 68.9 |
| 27.5° | 1307.2 | 1302.8 | 1284.2 | 1250.3 | 1196.7 | 1174.9 | 685.9 | 143.3 | 60.2 | 60.2 | 67.8 |
| 30° | 1364.1 | 1355.4 | 1336.8 | 1303.9 | 1249.2 | 1223.0 | 727.4 | 131.3 | 54.7 | 56.9 | 65.6 |
| 32.5° | 1392.5 | 1389.3 | 1372.9 | 1344.4 | 1290.8 | 1261.3 | 761.4 | 116.0 | 48.1 | 54.7 | 64.5 |
| 35° | 1409.0 | 1405.7 | 1392.5 | 1365.2 | 1314.9 | 1286.4 | 775.6 | 101.7 | 43.8 | 52.5 | 63.4 |
| 37.5° | 1422.1 | 1418.8 | 1402.4 | 1375.0 | 1324.7 | 1295.2 | 769.0 | 86.4 | 39.4 | 50.3 | 62.4 |
| 40° | 1437.4 | 1425.4 | 1400.2 | 1372.9 | 1326.9 | 1298.5 | 752.6 | 72.2 | 36.1 | 49.2 | 62.4 |
| 42.5° | 1474.6 | 1433.0 | 1393.6 | 1368.5 | 1324.7 | 1291.9 | 705.6 | 56.9 | 32.8 | 47.0 | 61.3 |
| 45° | 1504.1 | 1430.8 | 1380.5 | 1360.8 | 1316.0 | 1278.8 | 644.3 | 41.6 | 31.7 | 45.9 | 61.3 |
| 47.5° | 1426.5 | 1381.6 | 1358.6 | 1347.7 | 1299.6 | 1259.1 | 580.9 | 28.4 | 30.6 | 44.9 | 60.2 |
| 50° | 1306.1 | 1300.7 | 1291.9 | 1293.0 | 1249.2 | 1216.4 | 489.0 | 19.7 | 28.4 | 43.8 | 59.1 |
| 52.5° | 1248.1 | 1241.6 | 1226.3 | 1215.3 | 1171.6 | 1143.1 | 387.2 | 15.3 | 27.3 | 42.7 | 58.0 |
| 55° | 1086.3 | 1090.6 | 1074.2 | 1080.8 | 1067.7 | 1053.4 | 245.0 | 14.2 | 26.3 | 40.5 | 56.9 |
| 57.5° | 715.4 | 737.3 | 775.6 | 821.5 | 863.1 | 891.5 | 132.4 | 14.2 | 24.1 | 39.4 | 54.7 |
| 60° | 637.7 | 632.3 | 631.2 | 639.9 | 658.5 | 673.8 | 45.9 | 13.1 | 23.0 | 36.1 | 52.5 |
| 62.5° | 349.0 | 346.8 | 379.6 | 435.4 | 468.2 | 471.5 | 13.1 | 13.1 | 20.8 | 33.9 | 49.2 |
| 65° | 83.1 | 86.4 | 96.3 | 120.3 | 142.2 | 156.4 | 9.8 | 12.0 | 18.6 | 31.7 | 45.9 |
| 67.5° | 13.1 | 14.2 | 14.2 | 17.5 | 19.7 | 19.7 | 8.8 | 10.9 | 16.4 | 28.4 | 42.7 |
| 70° | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 7.7 | 9.8 | 14.2 | 25.2 | 38.3 |
| 72.5° | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 7.7 | 8.8 | 12.0 | 21.9 | 32.8 |
| 75° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 7.7 | 9.8 | 17.5 | 28.4 |
| 77.5° | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 5.5 | 6.6 | 8.8 | 14.2 | 23.0 |
| 80° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 4.4 | 5.5 | 6.6 | 10.9 | 17.5 |
| 82.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 3.3 | 4.4 | 5.5 | 8.8 | 13.1 |
| 85° | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 3.3 | 3.3 | 5.5 | 8.8 |
| 87.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 3.3 | 4.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 157.5° | 180° |
|-------|--------|-------|
| 0° | 106.1 | 106.1 |
| 2.5° | 89.7 | 88.6 |
| 5° | 80.9 | 80.9 |
| 7.5° | 77.7 | 77.7 |
| 10° | 76.6 | 77.7 |
| 12.5° | 76.6 | 77.7 |
| 15° | 76.6 | 77.7 |
| 17.5° | 76.6 | 77.7 |
| 20° | 75.5 | 76.6 |
| 22.5° | 74.4 | 75.5 |
| 25° | 73.3 | 75.5 |
| 27.5° | 72.2 | 75.5 |
| 30° | 72.2 | 75.5 |
| 32.5° | 72.2 | 75.5 |
| 35° | 71.1 | 75.5 |
| 37.5° | 71.1 | 75.5 |
| 40° | 71.1 | 75.5 |
| 42.5° | 71.1 | 75.5 |
| 45° | 71.1 | 75.5 |
| 47.5° | 71.1 | 75.5 |
| 50° | 71.1 | 75.5 |
| 52.5° | 70.0 | 75.5 |
| 55° | 70.0 | 74.4 |
| 57.5° | 67.8 | 72.2 |
| 60° | 65.6 | 70.0 |
| 62.5° | 63.4 | 67.8 |
| 65° | 60.2 | 64.5 |
| 67.5° | 56.9 | 60.2 |
| 70° | 51.4 | 55.8 |
| 72.5° | 45.9 | 49.2 |
| 75° | 39.4 | 42.7 |
| 77.5° | 32.8 | 36.1 |
| 80° | 26.3 | 28.4 |
| 82.5° | 18.6 | 20.8 |
| 85° | 12.0 | 13.1 |
| 87.5° | 5.5 | 5.5 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)