

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: P1311717

Luminaire Tested: LDSQA3D17R709040DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R709040DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

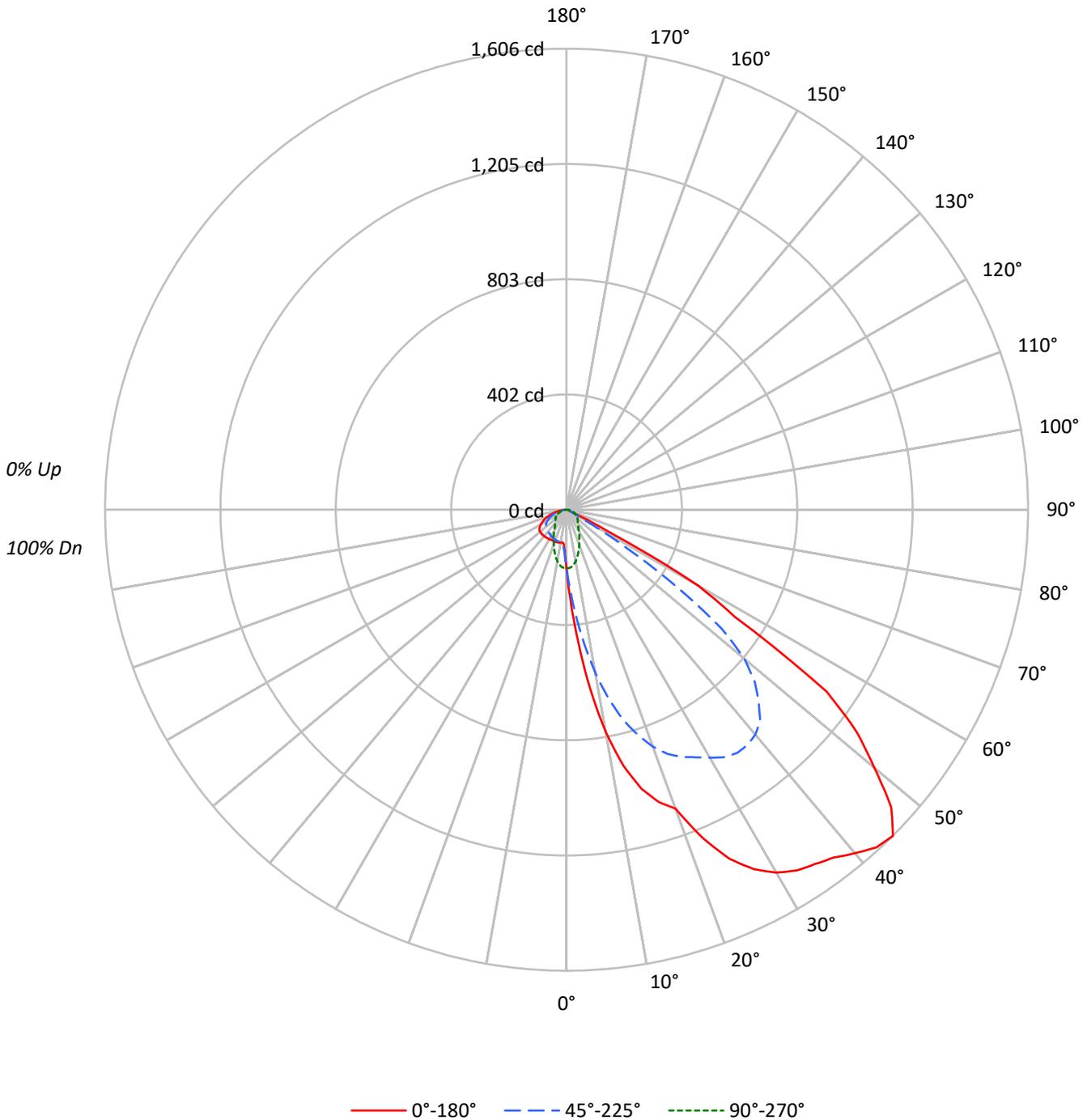
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1388.0 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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





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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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | 75 | | |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 69 | 66 | 64 | | |
| 4 | 85 | 74 | 66 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 54 | | |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 47 | | |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 41 | | |
| 7 | 66 | 53 | 44 | 38 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 37 | 31 | 26 | 25 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 34823 | 34823 | 34823 | 34823 | 34823 |
| 5° | 79248 | 63447 | 34472 | 21783 | 20348 |
| 10° | 137315 | 100748 | 31968 | 19866 | 20338 |
| 15° | 179261 | 134561 | 27904 | 20255 | 20986 |
| 20° | 203033 | 160916 | 23862 | 20564 | 21828 |
| 25° | 254997 | 180525 | 19991 | 20789 | 22366 |
| 30° | 290264 | 198289 | 17083 | 21199 | 23685 |
| 35° | 316776 | 217498 | 14843 | 21550 | 25040 |
| 40° | 351192 | 229767 | 13692 | 22415 | 27091 |
| 45° | 391254 | 230018 | 13493 | 23601 | 29349 |
| 50° | 374755 | 216301 | 13370 | 24864 | 31911 |
| 55° | 331818 | 140132 | 13722 | 26183 | 34500 |
| 60° | 181729 | 30036 | 13847 | 26695 | 35788 |
| 65° | 13000 | 7335 | 13529 | 26529 | 36106 |
| 70° | 6294 | 6949 | 12538 | 25127 | 34845 |
| 75° | 5523 | 7386 | 11978 | 23955 | 32273 |
| 80° | 5455 | 6843 | 11009 | 22018 | 30250 |
| 85° | 5533 | 8299 | 10868 | 19168 | 27269 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 391254 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.4 | 1.9 |
| 10°-20° | 112.8 | 8.1 |
| 20°-30° | 216.4 | 15.6 |
| 30°-40° | 306.0 | 22.0 |
| 40°-50° | 346.2 | 24.9 |
| 50°-60° | 274.2 | 19.8 |
| 60°-70° | 73.9 | 5.3 |
| 70°-80° | 24.5 | 1.8 |
| 80°-90° | 7.5 | 0.5 |
| 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° | 355.6 | 25.6 |
| 0°-40° | 661.6 | 47.7 |
| 0°-60° | 1282.0 | 92.4 |
| 0°-90° | 1388.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1388.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 202 | 202 | 202 | 202 | 202 | |
| 5° | 458 | 367 | 199 | 126 | 118 | 54 |
| 15° | 1005 | 755 | 156 | 114 | 118 | 283 |
| 25° | 1342 | 950 | 105 | 109 | 118 | 615 |
| 35° | 1507 | 1034 | 71 | 102 | 119 | 949 |
| 45° | 1606 | 944 | 55 | 97 | 120 | 1202 |
| 55° | 1105 | 467 | 46 | 87 | 115 | 897 |
| 65° | 32 | 18 | 33 | 65 | 89 | 115 |
| 75° | 8 | 11 | 18 | 36 | 48 | 9 |
| 85° | 3 | 4 | 6 | 10 | 14 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1311717
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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 0° | 202.2 | 202.2 | 202.2 | 202.2 | 202.2 | 202.2 | 202.2 | 202.2 | 202.2 | 202.2 | 202.2 |
| 2.5° | 314.4 | 314.4 | 313.0 | 307.4 | 304.7 | 297.7 | 292.2 | 277.0 | 239.6 | 203.6 | 174.5 |
| 5° | 458.4 | 465.3 | 455.6 | 454.2 | 445.9 | 433.4 | 425.1 | 367.0 | 277.0 | 199.4 | 149.6 |
| 7.5° | 628.7 | 631.5 | 628.7 | 614.9 | 602.4 | 581.6 | 562.2 | 470.8 | 314.4 | 192.5 | 131.6 |
| 10° | 785.2 | 781.0 | 772.7 | 763.0 | 745.0 | 722.9 | 689.6 | 576.1 | 350.4 | 182.8 | 120.5 |
| 12.5° | 912.6 | 911.2 | 901.5 | 891.8 | 869.7 | 840.6 | 807.3 | 671.6 | 380.8 | 170.3 | 114.9 |
| 15° | 1005.4 | 1005.4 | 995.7 | 984.6 | 963.8 | 940.3 | 902.9 | 754.7 | 405.7 | 156.5 | 109.4 |
| 17.5° | 1067.7 | 1064.9 | 1058.0 | 1049.7 | 1033.1 | 1009.5 | 980.4 | 821.2 | 422.4 | 142.6 | 108.0 |
| 20° | 1107.8 | 1106.5 | 1100.9 | 1088.5 | 1074.6 | 1056.6 | 1030.3 | 878.0 | 429.3 | 130.2 | 106.6 |
| 22.5° | 1236.6 | 1225.6 | 1204.8 | 1178.5 | 1145.2 | 1102.3 | 1066.3 | 920.9 | 426.5 | 116.3 | 103.9 |
| 25° | 1341.9 | 1337.7 | 1315.6 | 1283.7 | 1239.4 | 1184.0 | 1124.5 | 950.0 | 412.7 | 105.2 | 101.1 |
| 27.5° | 1411.1 | 1404.2 | 1383.4 | 1348.8 | 1301.7 | 1247.7 | 1192.3 | 972.1 | 393.3 | 95.6 | 96.9 |
| 30° | 1459.6 | 1455.4 | 1434.7 | 1395.9 | 1347.4 | 1287.9 | 1231.1 | 997.1 | 367.0 | 85.9 | 92.8 |
| 32.5° | 1490.1 | 1485.9 | 1465.1 | 1430.5 | 1383.4 | 1321.1 | 1256.0 | 1022.0 | 335.1 | 77.5 | 88.6 |
| 35° | 1506.7 | 1502.5 | 1479.0 | 1448.5 | 1404.2 | 1343.3 | 1274.0 | 1034.5 | 296.3 | 70.6 | 84.5 |
| 37.5° | 1527.4 | 1519.1 | 1487.3 | 1449.9 | 1405.6 | 1348.8 | 1279.6 | 1033.1 | 257.6 | 65.1 | 81.7 |
| 40° | 1562.1 | 1539.9 | 1494.2 | 1444.4 | 1398.7 | 1341.9 | 1275.4 | 1022.0 | 214.6 | 60.9 | 78.9 |
| 42.5° | 1595.3 | 1563.5 | 1495.6 | 1436.0 | 1384.8 | 1329.4 | 1260.2 | 997.1 | 167.6 | 58.2 | 77.5 |
| 45° | 1606.4 | 1559.3 | 1476.2 | 1416.7 | 1368.2 | 1311.4 | 1239.4 | 944.4 | 113.6 | 55.4 | 74.8 |
| 47.5° | 1533.0 | 1498.4 | 1429.1 | 1384.8 | 1339.1 | 1283.7 | 1208.9 | 889.0 | 65.1 | 52.6 | 72.0 |
| 50° | 1398.7 | 1376.5 | 1337.7 | 1310.0 | 1285.1 | 1246.3 | 1172.9 | 807.3 | 38.8 | 49.9 | 69.2 |
| 52.5° | 1274.0 | 1267.1 | 1239.4 | 1217.2 | 1203.4 | 1185.4 | 1118.9 | 681.3 | 31.9 | 48.5 | 66.5 |
| 55° | 1105.1 | 1082.9 | 1076.0 | 1067.7 | 1096.8 | 1095.4 | 1005.4 | 466.7 | 30.5 | 45.7 | 63.7 |
| 57.5° | 693.8 | 703.5 | 739.5 | 806.0 | 884.9 | 930.6 | 927.8 | 249.3 | 29.1 | 42.9 | 59.5 |
| 60° | 527.6 | 526.2 | 537.3 | 565.0 | 623.2 | 688.3 | 749.2 | 87.2 | 27.7 | 40.2 | 56.8 |
| 62.5° | 157.9 | 162.0 | 195.3 | 286.7 | 343.4 | 423.8 | 386.4 | 20.8 | 26.3 | 36.0 | 51.2 |
| 65° | 31.9 | 33.2 | 33.2 | 37.4 | 45.7 | 69.2 | 84.5 | 18.0 | 24.9 | 33.2 | 47.1 |
| 67.5° | 13.8 | 13.8 | 13.8 | 15.2 | 15.2 | 18.0 | 15.2 | 16.6 | 22.2 | 29.1 | 41.5 |
| 70° | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 13.8 | 13.8 | 19.4 | 24.9 | 36.0 |
| 72.5° | 9.7 | 9.7 | 9.7 | 11.1 | 11.1 | 11.1 | 11.1 | 12.5 | 16.6 | 20.8 | 30.5 |
| 75° | 8.3 | 8.3 | 8.3 | 8.3 | 9.7 | 9.7 | 9.7 | 11.1 | 13.8 | 18.0 | 24.9 |
| 77.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 8.3 | 8.3 | 8.3 | 11.1 | 13.8 | 20.8 |
| 80° | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 6.9 | 8.3 | 11.1 | 15.2 |
| 82.5° | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 5.5 | 6.9 | 8.3 | 11.1 |
| 85° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 4.2 | 4.2 | 5.5 | 6.9 |
| 87.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 2.8 | 2.8 | 2.8 | 4.2 |
| 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):

| | 135° | 157.5° | 180° |
|-------|-------|--------|-------|
| 0° | 202.2 | 202.2 | 202.2 |
| 2.5° | 153.7 | 145.4 | 141.3 |
| 5° | 126.0 | 119.1 | 117.7 |
| 7.5° | 116.3 | 114.9 | 114.9 |
| 10° | 113.6 | 114.9 | 116.3 |
| 12.5° | 113.6 | 116.3 | 117.7 |
| 15° | 113.6 | 116.3 | 117.7 |
| 17.5° | 113.6 | 116.3 | 117.7 |
| 20° | 112.2 | 116.3 | 119.1 |
| 22.5° | 110.8 | 116.3 | 117.7 |
| 25° | 109.4 | 116.3 | 117.7 |
| 27.5° | 108.0 | 114.9 | 117.7 |
| 30° | 106.6 | 114.9 | 119.1 |
| 32.5° | 103.9 | 114.9 | 119.1 |
| 35° | 102.5 | 114.9 | 119.1 |
| 37.5° | 101.1 | 114.9 | 120.5 |
| 40° | 99.7 | 114.9 | 120.5 |
| 42.5° | 98.3 | 114.9 | 120.5 |
| 45° | 96.9 | 113.6 | 120.5 |
| 47.5° | 94.2 | 113.6 | 120.5 |
| 50° | 92.8 | 112.2 | 119.1 |
| 52.5° | 90.0 | 110.8 | 119.1 |
| 55° | 87.2 | 108.0 | 114.9 |
| 57.5° | 83.1 | 103.9 | 109.4 |
| 60° | 77.5 | 98.3 | 103.9 |
| 62.5° | 70.6 | 91.4 | 95.6 |
| 65° | 65.1 | 83.1 | 88.6 |
| 67.5° | 56.8 | 73.4 | 78.9 |
| 70° | 49.9 | 63.7 | 69.2 |
| 72.5° | 42.9 | 54.0 | 59.5 |
| 75° | 36.0 | 44.3 | 48.5 |
| 77.5° | 27.7 | 36.0 | 38.8 |
| 80° | 22.2 | 27.7 | 30.5 |
| 82.5° | 15.2 | 19.4 | 20.8 |
| 85° | 9.7 | 12.5 | 13.8 |
| 87.5° | 4.2 | 5.5 | 5.5 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)