

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: P1308186

Luminaire Tested: LDSQA3D13R559027DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R559027DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

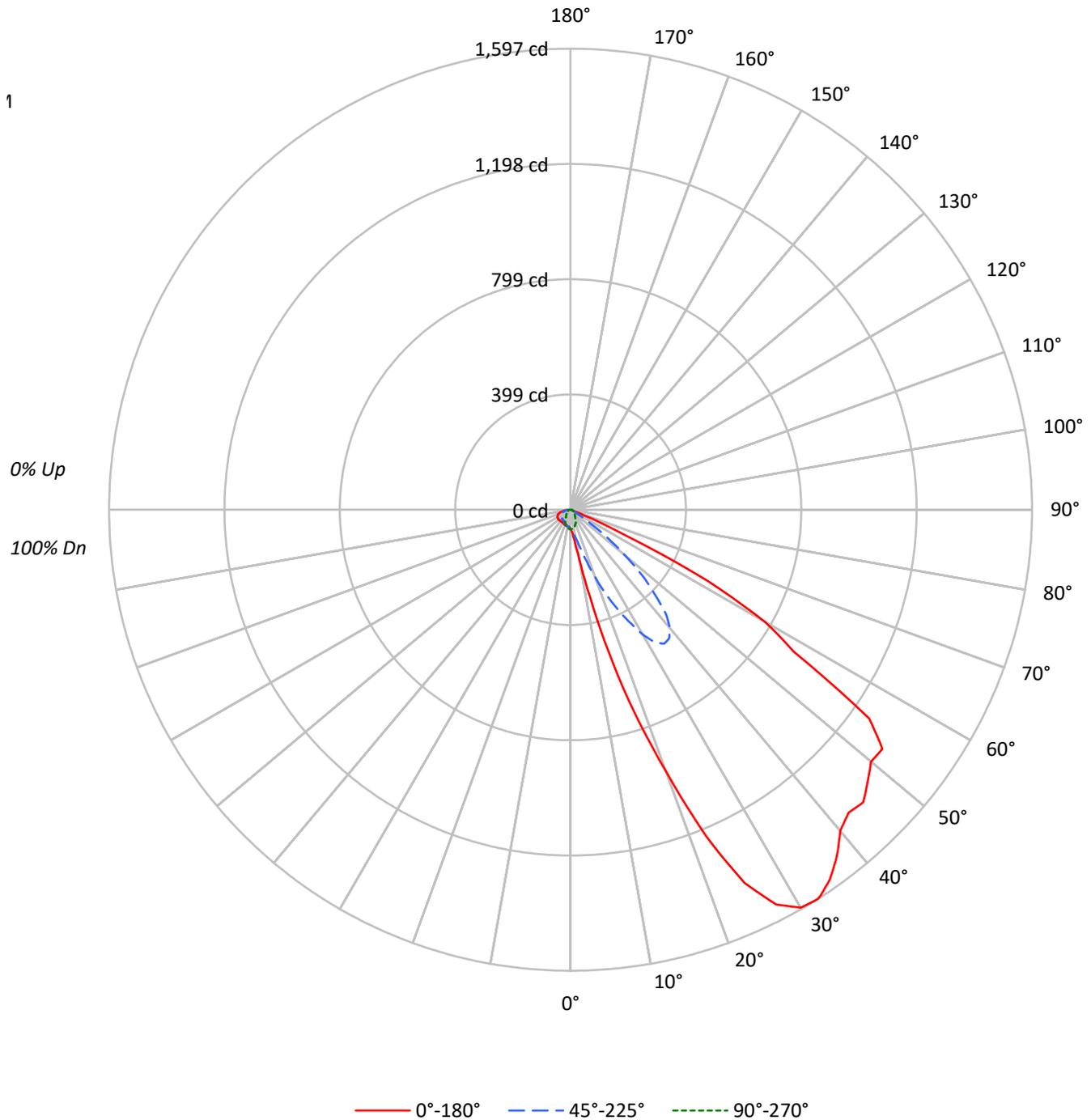
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1027.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
Input Voltage (V): NR
Input Current (Ain): 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: P1308186

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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 67 | 77 | 71 | 65 | 74 | 69 | 64 | 72 | 67 | 63 | 61 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 51 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 43 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 46 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 32 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 41 | 35 | 29 | 40 | 34 | 29 | 27 |
| 9 | 54 | 40 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 38 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 50 | 37 | 28 | 23 | 49 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 27 | 23 | 33 | 27 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 11401 | 11401 | 11401 | 11401 | 11401 |
| 5° | 14591 | 13329 | 11445 | 10667 | 10356 |
| 10° | 29677 | 16981 | 11105 | 10160 | 10160 |
| 15° | 91092 | 26049 | 10359 | 9878 | 10199 |
| 20° | 176128 | 45562 | 9310 | 9640 | 10153 |
| 25° | 271073 | 70861 | 8095 | 9311 | 10166 |
| 30° | 316514 | 99075 | 6682 | 9207 | 10460 |
| 35° | 328907 | 119041 | 5529 | 9167 | 10870 |
| 40° | 326417 | 120167 | 5103 | 9577 | 11826 |
| 45° | 348972 | 99445 | 4871 | 10376 | 12811 |
| 50° | 363716 | 65643 | 4850 | 11173 | 14334 |
| 55° | 378719 | 28615 | 4894 | 12251 | 15794 |
| 60° | 267531 | 6579 | 4994 | 13433 | 17808 |
| 65° | 87289 | 2201 | 4809 | 14426 | 19968 |
| 70° | 2719 | 2266 | 5035 | 15560 | 22861 |
| 75° | 2396 | 2396 | 4259 | 16303 | 25352 |
| 80° | 1785 | 2678 | 4463 | 16166 | 26977 |
| 85° | 1778 | 3557 | 5335 | 16203 | 26874 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 384810 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.0 | 0.7 |
| 10°-20° | 43.6 | 4.2 |
| 20°-30° | 146.2 | 14.2 |
| 30°-40° | 240.1 | 23.4 |
| 40°-50° | 267.8 | 26.1 |
| 50°-60° | 225.4 | 21.9 |
| 60°-70° | 76.5 | 7.4 |
| 70°-80° | 14.9 | 1.5 |
| 80°-90° | 5.6 | 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° | 196.8 | 19.2 |
| 0°-40° | 436.9 | 42.5 |
| 0°-60° | 930.0 | 90.6 |
| 0°-90° | 1027.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1027.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 66 | 66 | 66 | 66 | 66 | |
| 5° | 84 | 77 | 66 | 62 | 60 | 11 |
| 15° | 511 | 146 | 58 | 55 | 57 | 162 |
| 25° | 1426 | 373 | 43 | 49 | 54 | 641 |
| 35° | 1564 | 566 | 26 | 44 | 52 | 971 |
| 45° | 1433 | 408 | 20 | 43 | 53 | 1094 |
| 55° | 1261 | 95 | 16 | 41 | 53 | 1027 |
| 65° | 214 | 5 | 12 | 35 | 49 | 290 |
| 75° | 4 | 4 | 6 | 24 | 38 | 4 |
| 85° | 1 | 2 | 3 | 8 | 14 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1308186

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|------|
| 0° | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 | 66.2 |
| 2.5° | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 72.6 | 71.7 | 69.0 | 67.1 | 64.4 | 63.5 |
| 5° | 84.4 | 84.4 | 84.4 | 83.5 | 83.5 | 81.7 | 77.1 | 70.8 | 66.2 | 62.6 | 61.7 |
| 7.5° | 108.9 | 108.0 | 106.2 | 105.3 | 102.5 | 101.6 | 85.3 | 72.6 | 65.3 | 60.8 | 59.9 |
| 10° | 169.7 | 167.9 | 165.1 | 155.2 | 146.1 | 139.7 | 97.1 | 73.5 | 63.5 | 59.0 | 58.1 |
| 12.5° | 305.8 | 302.2 | 288.6 | 267.7 | 242.3 | 229.6 | 116.1 | 74.4 | 60.8 | 57.2 | 57.2 |
| 15° | 510.9 | 506.3 | 480.9 | 451.9 | 405.6 | 380.2 | 146.1 | 73.5 | 58.1 | 54.4 | 55.4 |
| 17.5° | 737.7 | 725.0 | 698.7 | 660.6 | 598.0 | 568.0 | 190.6 | 71.7 | 54.4 | 52.6 | 54.4 |
| 20° | 961.0 | 957.3 | 913.8 | 862.0 | 784.9 | 745.0 | 248.6 | 69.0 | 50.8 | 49.9 | 52.6 |
| 22.5° | 1222.3 | 1206.9 | 1160.6 | 1105.2 | 999.1 | 946.4 | 311.2 | 65.3 | 47.2 | 47.2 | 50.8 |
| 25° | 1426.5 | 1408.3 | 1372.0 | 1307.6 | 1206.9 | 1150.6 | 372.9 | 60.8 | 42.6 | 44.5 | 49.0 |
| 27.5° | 1540.8 | 1519.9 | 1492.7 | 1437.3 | 1359.3 | 1309.4 | 434.7 | 55.4 | 38.1 | 41.7 | 47.2 |
| 30° | 1591.6 | 1586.2 | 1566.2 | 1525.4 | 1453.7 | 1409.2 | 498.2 | 49.0 | 33.6 | 39.0 | 46.3 |
| 32.5° | 1597.1 | 1599.8 | 1591.6 | 1565.3 | 1510.8 | 1472.7 | 545.4 | 43.6 | 29.9 | 37.2 | 44.5 |
| 35° | 1564.4 | 1574.4 | 1579.8 | 1568.9 | 1533.5 | 1502.7 | 566.2 | 37.2 | 26.3 | 35.4 | 43.6 |
| 37.5° | 1513.6 | 1531.7 | 1549.9 | 1552.6 | 1530.8 | 1510.8 | 560.8 | 31.8 | 24.5 | 34.5 | 43.6 |
| 40° | 1451.9 | 1468.2 | 1505.4 | 1529.0 | 1521.7 | 1507.2 | 534.5 | 26.3 | 22.7 | 32.7 | 42.6 |
| 42.5° | 1423.7 | 1427.4 | 1467.3 | 1507.2 | 1505.4 | 1493.6 | 488.2 | 20.9 | 20.9 | 32.7 | 42.6 |
| 45° | 1432.8 | 1416.5 | 1442.8 | 1489.1 | 1486.3 | 1470.9 | 408.3 | 16.3 | 20.0 | 31.8 | 42.6 |
| 47.5° | 1394.7 | 1372.0 | 1416.5 | 1470.9 | 1460.9 | 1438.3 | 337.6 | 11.8 | 19.1 | 30.9 | 41.7 |
| 50° | 1357.5 | 1353.9 | 1388.3 | 1415.6 | 1402.0 | 1389.3 | 245.0 | 9.1 | 18.1 | 29.9 | 41.7 |
| 52.5° | 1360.2 | 1353.9 | 1357.5 | 1356.6 | 1329.4 | 1315.8 | 167.9 | 7.3 | 17.2 | 29.0 | 41.7 |
| 55° | 1261.3 | 1241.3 | 1222.3 | 1227.7 | 1229.5 | 1220.5 | 95.3 | 6.4 | 16.3 | 29.0 | 40.8 |
| 57.5° | 916.5 | 911.0 | 931.9 | 990.9 | 1037.2 | 1042.6 | 46.3 | 6.4 | 15.4 | 28.1 | 39.9 |
| 60° | 776.7 | 773.1 | 774.0 | 791.3 | 815.8 | 800.3 | 19.1 | 6.4 | 14.5 | 27.2 | 39.0 |
| 62.5° | 535.4 | 570.8 | 585.3 | 625.2 | 608.9 | 587.1 | 7.3 | 7.3 | 13.6 | 25.4 | 38.1 |
| 65° | 214.2 | 213.2 | 233.2 | 252.3 | 246.8 | 230.5 | 5.4 | 6.4 | 11.8 | 23.6 | 35.4 |
| 67.5° | 49.9 | 45.4 | 39.0 | 33.6 | 28.1 | 22.7 | 5.4 | 6.4 | 10.9 | 21.8 | 33.6 |
| 70° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 4.5 | 4.5 | 6.4 | 10.0 | 20.0 | 30.9 |
| 72.5° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 5.4 | 8.2 | 17.2 | 28.1 |
| 75° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 4.5 | 6.4 | 14.5 | 24.5 |
| 77.5° | 2.7 | 2.7 | 2.7 | 3.6 | 2.7 | 3.6 | 3.6 | 4.5 | 5.4 | 11.8 | 20.9 |
| 80° | 1.8 | 1.8 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 3.6 | 4.5 | 10.0 | 16.3 |
| 82.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 2.7 | 2.7 | 3.6 | 7.3 | 11.8 |
| 85° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.8 | 1.8 | 2.7 | 2.7 | 5.4 | 8.2 |
| 87.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.8 | 1.8 | 2.7 | 2.7 | 3.6 |
| 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° | 66.2 | 66.2 |
| 2.5° | 62.6 | 62.6 |
| 5° | 60.8 | 59.9 |
| 7.5° | 59.0 | 59.0 |
| 10° | 58.1 | 58.1 |
| 12.5° | 57.2 | 58.1 |
| 15° | 57.2 | 57.2 |
| 17.5° | 55.4 | 56.3 |
| 20° | 54.4 | 55.4 |
| 22.5° | 53.5 | 54.4 |
| 25° | 52.6 | 53.5 |
| 27.5° | 51.7 | 52.6 |
| 30° | 50.8 | 52.6 |
| 32.5° | 49.9 | 51.7 |
| 35° | 49.9 | 51.7 |
| 37.5° | 49.9 | 52.6 |
| 40° | 49.9 | 52.6 |
| 42.5° | 49.9 | 52.6 |
| 45° | 49.9 | 52.6 |
| 47.5° | 49.9 | 52.6 |
| 50° | 49.9 | 53.5 |
| 52.5° | 49.9 | 53.5 |
| 55° | 49.9 | 52.6 |
| 57.5° | 49.0 | 52.6 |
| 60° | 49.0 | 51.7 |
| 62.5° | 48.1 | 50.8 |
| 65° | 46.3 | 49.0 |
| 67.5° | 44.5 | 48.1 |
| 70° | 41.7 | 45.4 |
| 72.5° | 39.0 | 41.7 |
| 75° | 35.4 | 38.1 |
| 77.5° | 30.9 | 32.7 |
| 80° | 24.5 | 27.2 |
| 82.5° | 19.1 | 20.9 |
| 85° | 12.7 | 13.6 |
| 87.5° | 5.4 | 6.4 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)