

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: P1307931

Luminaire Tested: LDSQA3D09R209027DE010 3LSQPHRL1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R209027DE010 3LSQPHRL1MMS
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 90CRI , 3LSQPHRL1MMS TRIM
Light Source: -
Ballast/Driver: -

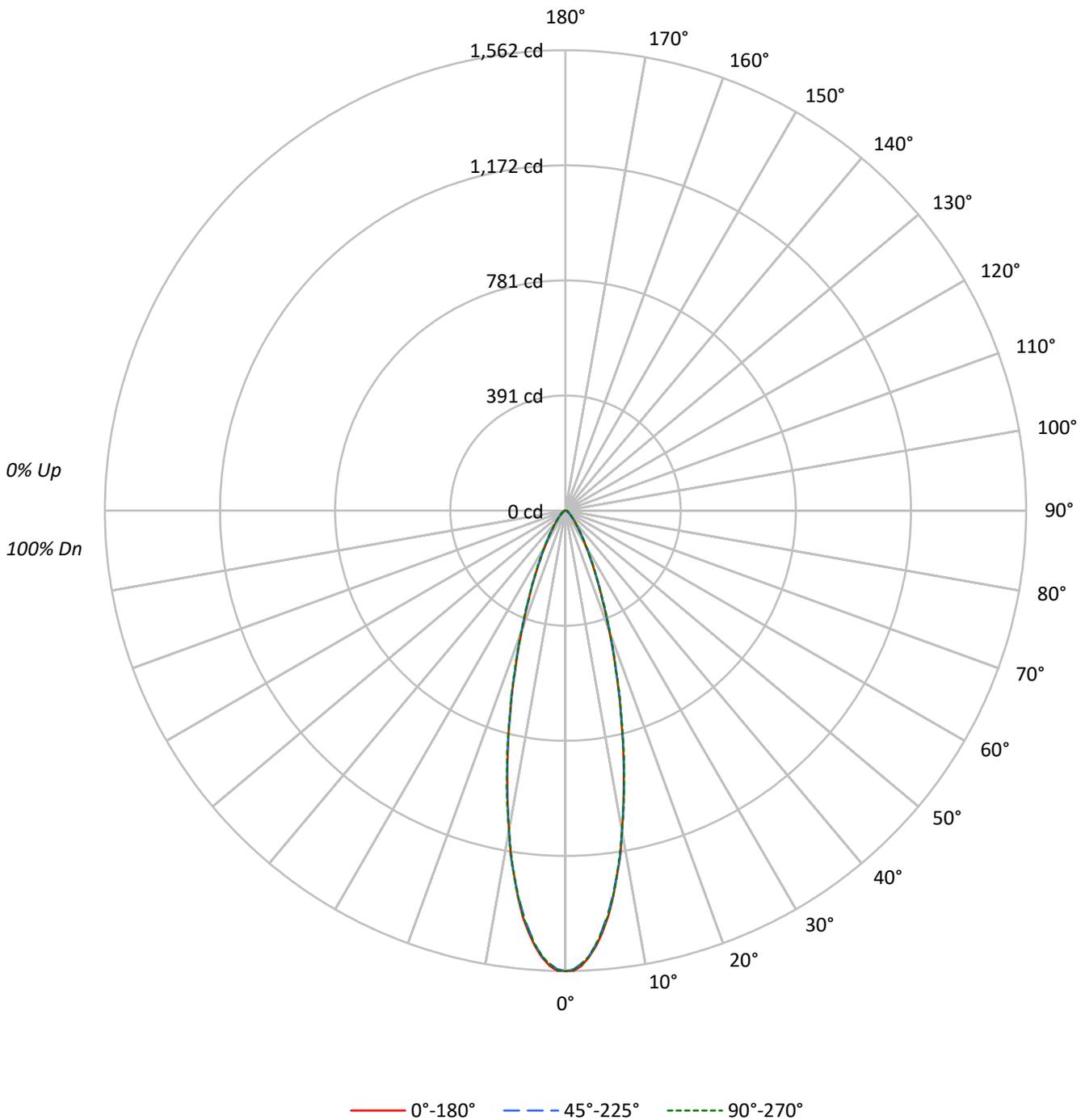
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 549.0 lumens
Efficiency: N/A
Efficacy: 49.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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 | | | | 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 | 102 | 102 | 102 | 100 |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 96 | 96 | 96 | 94 |
| 2 | 109 | 104 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 97 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 94 | 92 | 90 | 89 |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 89 | 94 | 91 | 88 | 92 | 89 | 87 | 90 | 87 | 85 | 90 | 87 | 85 | 84 |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 84 | 90 | 86 | 83 | 88 | 84 | 82 | 86 | 83 | 81 | 86 | 83 | 81 | 79 |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 82 | 79 | 86 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 77 | 82 | 79 | 77 | 75 |
| 6 | 92 | 84 | 79 | 75 | 90 | 83 | 78 | 75 | 82 | 77 | 74 | 80 | 77 | 74 | 79 | 76 | 73 | 79 | 76 | 73 | 72 |
| 7 | 88 | 80 | 75 | 71 | 87 | 80 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 76 | 73 | 70 | 69 |
| 8 | 85 | 77 | 72 | 68 | 84 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 73 | 70 | 67 | 73 | 70 | 67 | 66 |
| 9 | 82 | 74 | 69 | 65 | 81 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 65 | 71 | 67 | 64 | 71 | 67 | 64 | 63 |
| 10 | 79 | 71 | 66 | 62 | 78 | 70 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 68 | 65 | 62 | 68 | 65 | 62 | 61 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 269046 | 269046 | 269046 |
| 5° | 248205 | 246787 | 247617 |
| 10° | 192612 | 192857 | 192857 |
| 15° | 130193 | 130799 | 130799 |
| 20° | 79065 | 80073 | 80440 |
| 25° | 46386 | 47032 | 46899 |
| 30° | 27066 | 27603 | 27742 |
| 35° | 16525 | 16967 | 16967 |
| 40° | 10769 | 10904 | 11061 |
| 45° | 7502 | 7648 | 7818 |
| 50° | 5493 | 5680 | 5680 |
| 55° | 4324 | 4504 | 4504 |
| 60° | 3754 | 3754 | 3996 |
| 65° | 3342 | 3342 | 3627 |
| 70° | 3122 | 3122 | 3122 |
| 75° | 2728 | 2728 | 2728 |
| 80° | 2083 | 2083 | 2678 |
| 85° | 1383 | 1383 | 2766 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7818 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.0 | 22.9 |
| 10°-20° | 201.7 | 36.7 |
| 20°-30° | 116.8 | 21.3 |
| 30°-40° | 52.4 | 9.5 |
| 40°-50° | 24.8 | 4.5 |
| 50°-60° | 13.6 | 2.5 |
| 60°-70° | 8.2 | 1.5 |
| 70°-80° | 4.4 | 0.8 |
| 80°-90° | 1.0 | 0.2 |
| 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° | 444.5 | 81.0 |
| 0°-40° | 496.9 | 90.5 |
| 0°-60° | 535.4 | 97.5 |
| 0°-90° | 549.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 549.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1562 | 1562 | 1562 | 1562 | 1562 | |
| 5° | 1436 | 1431 | 1428 | 1430 | 1432 | 126 |
| 15° | 730 | 730 | 734 | 730 | 734 | 201 |
| 25° | 244 | 244 | 248 | 245 | 247 | 116 |
| 35° | 79 | 79 | 81 | 81 | 81 | 51 |
| 45° | 31 | 31 | 31 | 31 | 32 | 24 |
| 55° | 14 | 14 | 15 | 15 | 15 | 13 |
| 65° | 8 | 8 | 8 | 8 | 9 | 8 |
| 75° | 4 | 4 | 4 | 4 | 4 | 4 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1307931
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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1562.2 | 1562.2 | 1562.2 | 1562.2 | 1562.2 |
| 1° | 1561.5 | 1557.4 | 1556.1 | 1554.7 | 1558.8 |
| 2° | 1545.8 | 1541.0 | 1538.3 | 1539.7 | 1540.3 |
| 3° | 1517.8 | 1515.0 | 1515.0 | 1513.0 | 1514.4 |
| 4° | 1481.5 | 1476.1 | 1476.1 | 1476.8 | 1476.8 |
| 5° | 1435.7 | 1431.0 | 1427.5 | 1430.3 | 1432.3 |
| 6° | 1384.5 | 1378.3 | 1375.6 | 1376.3 | 1381.0 |
| 7° | 1321.6 | 1313.4 | 1314.7 | 1318.1 | 1318.1 |
| 8° | 1250.5 | 1249.8 | 1251.1 | 1249.8 | 1251.1 |
| 9° | 1184.8 | 1175.3 | 1183.5 | 1176.6 | 1180.0 |
| 10° | 1101.4 | 1100.7 | 1102.8 | 1104.8 | 1102.8 |
| 12.5° | 911.4 | 914.8 | 916.1 | 913.4 | 919.6 |
| 15° | 730.2 | 730.2 | 733.6 | 730.2 | 733.6 |
| 17.5° | 568.1 | 567.5 | 570.2 | 567.5 | 571.6 |
| 20° | 431.4 | 436.2 | 436.9 | 436.9 | 438.9 |
| 22.5° | 325.4 | 325.4 | 328.2 | 328.9 | 327.5 |
| 25° | 244.1 | 244.1 | 247.5 | 245.4 | 246.8 |
| 27.5° | 180.5 | 181.9 | 184.6 | 186.0 | 186.0 |
| 30° | 136.1 | 136.7 | 138.8 | 139.5 | 139.5 |
| 32.5° | 102.6 | 103.9 | 105.3 | 106.0 | 106.7 |
| 35° | 78.6 | 79.3 | 80.7 | 81.4 | 80.7 |
| 37.5° | 60.2 | 60.8 | 62.2 | 62.9 | 62.9 |
| 40° | 47.9 | 47.9 | 48.5 | 49.2 | 49.2 |
| 42.5° | 37.6 | 38.3 | 38.3 | 39.0 | 39.0 |
| 45° | 30.8 | 30.8 | 31.4 | 31.4 | 32.1 |
| 47.5° | 24.6 | 24.6 | 25.3 | 26.0 | 26.0 |
| 50° | 20.5 | 20.5 | 21.2 | 21.2 | 21.2 |
| 52.5° | 17.1 | 17.1 | 17.8 | 17.8 | 17.8 |
| 55° | 14.4 | 14.4 | 15.0 | 15.0 | 15.0 |
| 57.5° | 12.3 | 12.3 | 13.0 | 13.0 | 13.0 |
| 60° | 10.9 | 10.9 | 10.9 | 10.9 | 11.6 |
| 62.5° | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 65° | 8.2 | 8.2 | 8.2 | 8.2 | 8.9 |
| 67.5° | 6.8 | 6.8 | 6.8 | 6.8 | 7.5 |
| 70° | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| 72.5° | 4.8 | 4.8 | 4.8 | 5.5 | 5.5 |
| 75° | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 77.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 80° | 2.1 | 2.1 | 2.1 | 2.7 | 2.7 |
| 82.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 85° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)