

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: P1325955

Luminaire Tested: LDSQA3D09R20W2N902750DE010 3LSQCDR1MW_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-34)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R20W2N902750DE010 3LSQCDR1MW_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,
3LSQCDR1MW TRIM
Light Source: -
Ballast/Driver: -

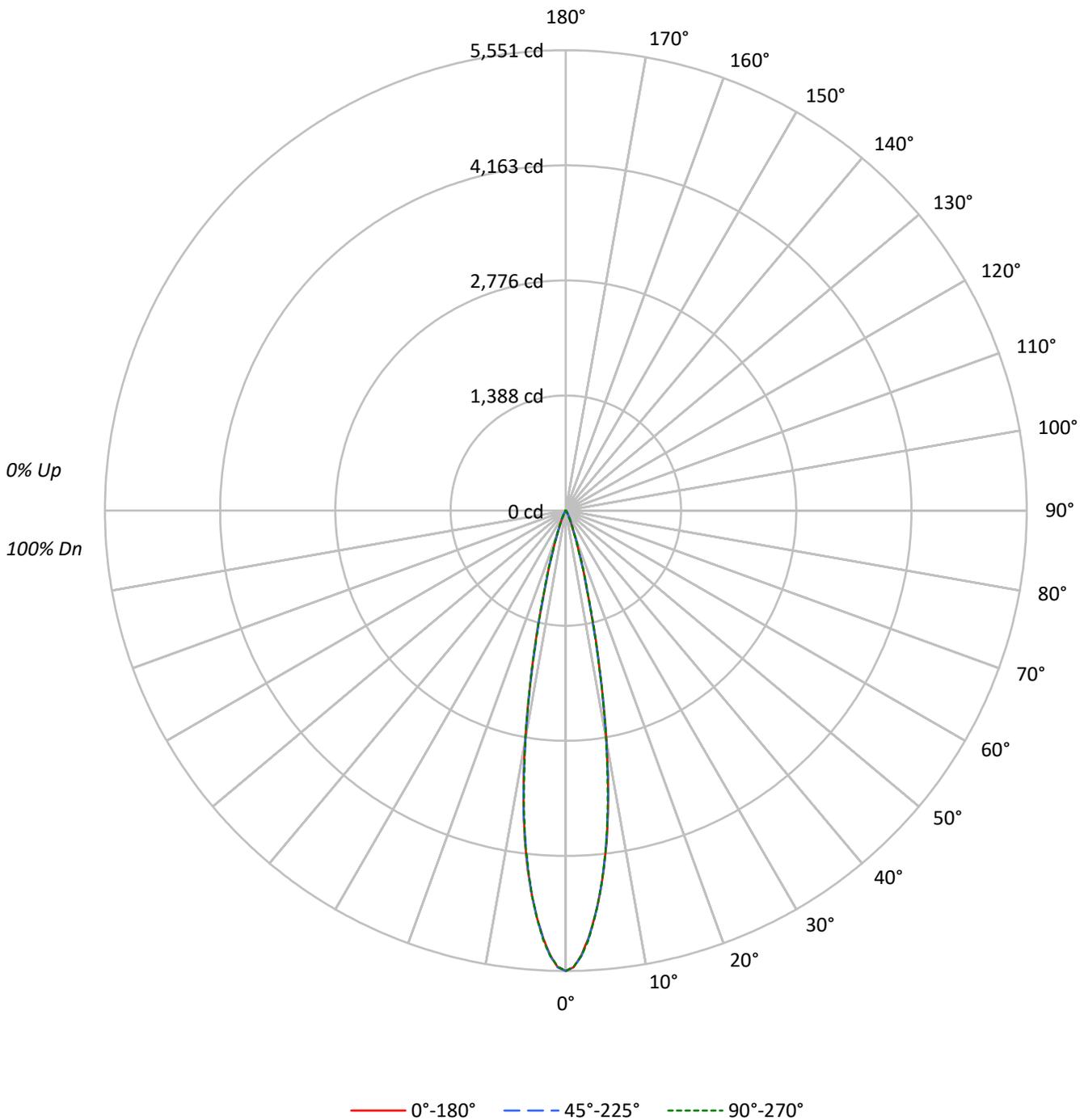
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 765.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.33
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
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: P1325955
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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 | 102 | 102 | 100 |
| 1 | 116 | 114 | 112 | 110 | 113 | 111 | 110 | 109 | 108 | 106 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 99 | 98 | 98 |
| 2 | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 103 | 104 | 102 | 101 | 102 | 100 | 99 | 99 | 98 | 97 | 97 | 96 | 95 |
| 3 | 109 | 105 | 102 | 100 | 108 | 104 | 101 | 99 | 102 | 99 | 97 | 99 | 97 | 96 | 97 | 96 | 94 | 97 | 96 | 93 |
| 4 | 107 | 102 | 98 | 96 | 105 | 101 | 98 | 95 | 99 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 92 | 96 | 94 | 91 |
| 5 | 104 | 99 | 95 | 93 | 103 | 98 | 95 | 92 | 97 | 94 | 92 | 95 | 93 | 91 | 94 | 92 | 90 | 94 | 92 | 89 |
| 6 | 102 | 96 | 93 | 90 | 101 | 96 | 92 | 90 | 94 | 92 | 89 | 93 | 91 | 89 | 92 | 90 | 88 | 92 | 90 | 87 |
| 7 | 100 | 94 | 90 | 88 | 99 | 94 | 90 | 88 | 92 | 90 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 91 | 88 | 86 |
| 8 | 97 | 92 | 88 | 86 | 97 | 91 | 88 | 86 | 91 | 88 | 86 | 90 | 87 | 85 | 89 | 87 | 85 | 89 | 87 | 84 |
| 9 | 96 | 90 | 87 | 84 | 95 | 90 | 86 | 84 | 89 | 86 | 84 | 88 | 85 | 84 | 87 | 85 | 83 | 87 | 85 | 83 |
| 10 | 94 | 88 | 85 | 83 | 93 | 88 | 85 | 82 | 87 | 84 | 82 | 87 | 84 | 82 | 86 | 84 | 82 | 86 | 84 | 81 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 956060 | 956060 | 956060 |
| 5° | 805813 | 806124 | 805710 |
| 10° | 491044 | 488771 | 489907 |
| 15° | 172967 | 173698 | 179083 |
| 20° | 54341 | 55862 | 54671 |
| 25° | 20352 | 22271 | 20922 |
| 30° | 7895 | 11176 | 8233 |
| 35° | 2985 | 4983 | 3238 |
| 40° | 1596 | 2136 | 1596 |
| 45° | 585 | 999 | 731 |
| 50° | 322 | 482 | 322 |
| 55° | 360 | 360 | 360 |
| 60° | 207 | 207 | 207 |
| 65° | 245 | 245 | 245 |
| 70° | 302 | 302 | 302 |
| 75° | 0 | 0 | 399 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 999 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 385.4 | 50.4 |
| 10°-20° | 302.2 | 39.5 |
| 20°-30° | 59.3 | 7.8 |
| 30°-40° | 13.3 | 1.7 |
| 40°-50° | 3.0 | 0.4 |
| 50°-60° | 1.0 | 0.1 |
| 60°-70° | 0.6 | 0.1 |
| 70°-80° | 0.3 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 746.9 | 97.6 |
| 0°-40° | 760.2 | 99.4 |
| 0°-60° | 764.2 | 99.9 |
| 0°-90° | 765.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 765.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5551 | 5551 | 5551 | 5551 | 5551 | |
| 5° | 4661 | 4665 | 4663 | 4679 | 4660 | 386 |
| 15° | 970 | 974 | 974 | 996 | 1004 | 302 |
| 25° | 107 | 114 | 117 | 115 | 110 | 56 |
| 35° | 14 | 17 | 24 | 17 | 15 | 11 |
| 45° | 2 | 4 | 4 | 4 | 3 | 2 |
| 55° | 1 | 1 | 1 | 1 | 1 | 1 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 0 | 0 | 1 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 5551.3 | 5551.3 | 5551.3 | 5551.3 | 5551.3 |
| 1° | 5506.3 | 5494.5 | 5508.1 | 5497.4 | 5499.8 |
| 2° | 5363.7 | 5357.1 | 5374.9 | 5363.7 | 5369.6 |
| 3° | 5165.4 | 5157.1 | 5170.1 | 5170.7 | 5187.3 |
| 4° | 4928.6 | 4912.6 | 4932.2 | 4932.8 | 4935.7 |
| 5° | 4661.1 | 4665.2 | 4662.9 | 4678.8 | 4660.5 |
| 6° | 4360.4 | 4374.0 | 4356.3 | 4365.1 | 4339.7 |
| 7° | 4024.2 | 4007.1 | 3998.2 | 4001.1 | 4018.9 |
| 8° | 3653.1 | 3641.3 | 3654.3 | 3635.9 | 3623.5 |
| 9° | 3240.6 | 3219.9 | 3234.1 | 3216.3 | 3198.5 |
| 10° | 2807.9 | 2798.4 | 2794.9 | 2774.8 | 2801.4 |
| 11° | 2374.0 | 2345.6 | 2359.8 | 2349.8 | 2378.8 |
| 12° | 1968.0 | 1970.4 | 1942.6 | 1951.4 | 1955.0 |
| 13° | 1601.6 | 1563.8 | 1568.5 | 1592.8 | 1596.9 |
| 14° | 1242.4 | 1247.7 | 1249.5 | 1266.6 | 1276.7 |
| 15° | 970.1 | 974.2 | 974.2 | 995.6 | 1004.4 |
| 17.5° | 520.3 | 520.3 | 531.5 | 533.9 | 535.1 |
| 20° | 296.5 | 298.3 | 304.8 | 304.2 | 298.3 |
| 22.5° | 177.6 | 181.1 | 184.7 | 181.1 | 177.6 |
| 25° | 107.1 | 114.2 | 117.2 | 115.4 | 110.1 |
| 27.5° | 63.9 | 71.6 | 79.9 | 73.4 | 63.3 |
| 30° | 39.7 | 43.8 | 56.2 | 45.0 | 41.4 |
| 32.5° | 21.9 | 28.4 | 38.5 | 29.6 | 22.5 |
| 35° | 14.2 | 17.2 | 23.7 | 17.2 | 15.4 |
| 37.5° | 10.1 | 11.8 | 14.8 | 12.4 | 10.7 |
| 40° | 7.1 | 8.3 | 9.5 | 8.9 | 7.1 |
| 42.5° | 4.7 | 5.9 | 6.5 | 5.9 | 4.7 |
| 45° | 2.4 | 3.6 | 4.1 | 3.6 | 3.0 |
| 47.5° | 1.2 | 1.8 | 3.0 | 1.8 | 1.2 |
| 50° | 1.2 | 1.2 | 1.8 | 1.2 | 1.2 |
| 52.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 55° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 57.5° | 1.2 | 1.2 | 0.6 | 1.2 | 0.6 |
| 60° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 62.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 65° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 67.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 70° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 72.5° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)