

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: P1313041

Luminaire Tested: LDSQA3D24R409050D010 3LSQCDR1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-26)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D24R409050D010 3LSQCDR1MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , 3LSQCDR1MMS TRIM
Light Source: -
Ballast/Driver: -

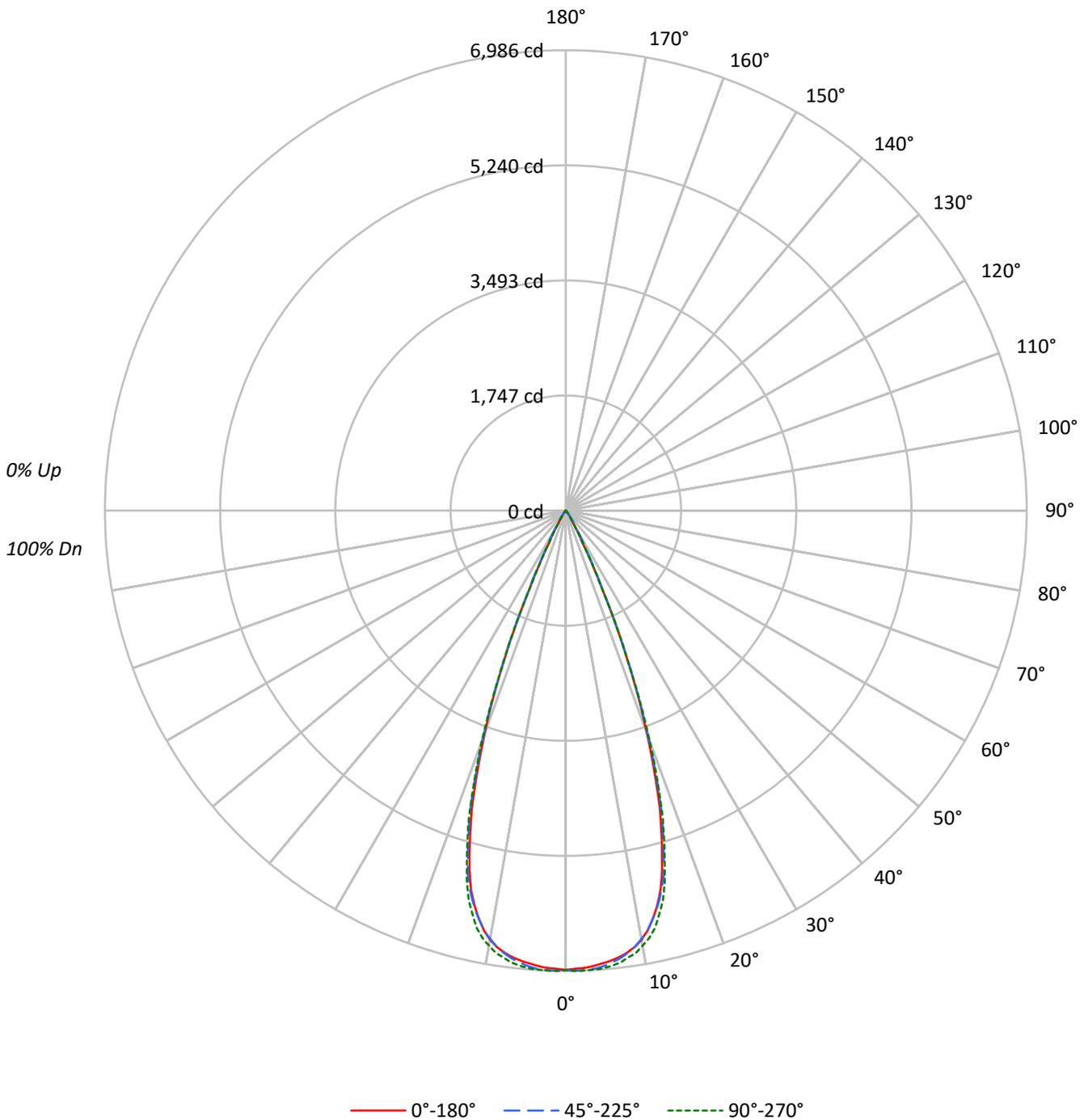
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2931.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.69 / 0.6
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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





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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 | 102 | 102 | 102 | 100 |
| 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 98 | 98 | 98 | 96 |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 94 | 94 | 94 | 92 |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 90 | 90 | 90 | 89 |
| 4 | 103 | 97 | 93 | 90 | 102 | 96 | 92 | 89 | 94 | 91 | 88 | 92 | 90 | 87 | 91 | 88 | 87 | 87 | 87 | 87 | 85 |
| 5 | 100 | 93 | 89 | 86 | 98 | 93 | 88 | 85 | 91 | 87 | 85 | 89 | 86 | 84 | 88 | 85 | 83 | 83 | 83 | 83 | 82 |
| 6 | 96 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 86 | 83 | 81 | 85 | 82 | 80 | 80 | 80 | 80 | 79 |
| 7 | 93 | 86 | 82 | 79 | 92 | 86 | 81 | 78 | 85 | 81 | 78 | 83 | 80 | 78 | 82 | 80 | 77 | 77 | 77 | 77 | 76 |
| 8 | 90 | 83 | 79 | 76 | 89 | 83 | 78 | 75 | 82 | 78 | 75 | 81 | 77 | 75 | 80 | 77 | 75 | 75 | 75 | 75 | 73 |
| 9 | 87 | 80 | 76 | 73 | 86 | 80 | 75 | 73 | 79 | 75 | 72 | 78 | 75 | 72 | 77 | 74 | 72 | 72 | 72 | 72 | 71 |
| 10 | 85 | 77 | 73 | 70 | 84 | 77 | 73 | 70 | 76 | 72 | 70 | 76 | 72 | 70 | 75 | 72 | 70 | 70 | 70 | 70 | 69 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1200392 | 1200392 | 1200392 |
| 5° | 1189988 | 1197491 | 1203196 |
| 10° | 1156111 | 1153942 | 1171990 |
| 15° | 1005743 | 1021933 | 1034449 |
| 20° | 660085 | 672951 | 681657 |
| 25° | 235329 | 249049 | 234151 |
| 30° | 51307 | 69364 | 51725 |
| 35° | 16483 | 28635 | 16063 |
| 40° | 5103 | 8813 | 4631 |
| 45° | 511 | 3020 | 511 |
| 50° | 0 | 563 | 0 |
| 55° | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3020 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 651.8 | 22.2 |
| 10°-20° | 1518.0 | 51.8 |
| 20°-30° | 680.8 | 23.2 |
| 30°-40° | 73.5 | 2.5 |
| 40°-50° | 6.8 | 0.2 |
| 50°-60° | 0.1 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 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° | 2850.6 | 97.3 |
| 0°-40° | 2924.1 | 99.8 |
| 0°-60° | 2931.0 | 100.0 |
| 0°-90° | 2931.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2931.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6970 | 6970 | 6970 | 6970 | 6970 | |
| 5° | 6883 | 6902 | 6927 | 6937 | 6960 | 649 |
| 15° | 5641 | 5682 | 5732 | 5765 | 5802 | 1499 |
| 25° | 1238 | 1276 | 1311 | 1333 | 1232 | 661 |
| 35° | 78 | 91 | 136 | 89 | 76 | 61 |
| 45° | 2 | 4 | 12 | 4 | 2 | 4 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CATALOG NUMBER: LDSQA3D24R409050D010 3LSQCDR1MMS

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 6970.0 | 6970.0 | 6970.0 | 6970.0 | 6970.0 |
| 1° | 6955.5 | 6970.0 | 6982.4 | 6972.1 | 6986.5 |
| 2° | 6949.4 | 6965.9 | 6984.4 | 6974.1 | 6986.5 |
| 3° | 6932.8 | 6953.5 | 6974.1 | 6967.9 | 6980.3 |
| 4° | 6910.1 | 6926.7 | 6957.6 | 6957.6 | 6976.2 |
| 5° | 6883.3 | 6901.9 | 6926.7 | 6937.0 | 6959.7 |
| 6° | 6854.4 | 6864.7 | 6883.3 | 6904.0 | 6934.9 |
| 7° | 6817.3 | 6817.3 | 6840.0 | 6860.6 | 6901.9 |
| 8° | 6765.7 | 6761.5 | 6778.0 | 6804.9 | 6842.0 |
| 9° | 6701.7 | 6687.2 | 6699.6 | 6738.8 | 6794.6 |
| 10° | 6610.9 | 6598.5 | 6598.5 | 6648.0 | 6701.7 |
| 11° | 6493.2 | 6489.1 | 6491.2 | 6538.6 | 6610.9 |
| 12° | 6334.3 | 6338.4 | 6338.4 | 6392.1 | 6480.8 |
| 13° | 6154.7 | 6152.7 | 6171.2 | 6231.1 | 6291.0 |
| 14° | 5936.0 | 5948.3 | 5966.9 | 6020.6 | 6082.5 |
| 15° | 5640.8 | 5682.1 | 5731.6 | 5764.6 | 5801.8 |
| 17.5° | 4743.0 | 4784.3 | 4852.4 | 4879.2 | 4887.5 |
| 20° | 3601.6 | 3661.5 | 3671.8 | 3725.5 | 3719.3 |
| 22.5° | 2414.8 | 2410.7 | 2419.0 | 2425.2 | 2427.2 |
| 25° | 1238.4 | 1275.5 | 1310.6 | 1333.3 | 1232.2 |
| 27.5° | 538.7 | 602.7 | 648.1 | 588.2 | 544.9 |
| 30° | 258.0 | 293.1 | 348.8 | 295.1 | 260.1 |
| 32.5° | 140.3 | 163.1 | 220.8 | 161.0 | 138.3 |
| 35° | 78.4 | 90.8 | 136.2 | 88.8 | 76.4 |
| 37.5° | 45.4 | 49.5 | 74.3 | 49.5 | 43.3 |
| 40° | 22.7 | 28.9 | 39.2 | 28.9 | 20.6 |
| 42.5° | 8.3 | 14.4 | 20.6 | 14.4 | 8.3 |
| 45° | 2.1 | 4.1 | 12.4 | 4.1 | 2.1 |
| 47.5° | 0.0 | 0.0 | 6.2 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)