

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: P1317336

Luminaire Tested: LDSQA3D09R309827DE010 3LSQPHR1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R309827DE010 3LSQPHR1MMS
Description: 3in Adjustable LED luminaire with, R30 optic, 2700K CCT AND, 98CRI , 3LSQPHR1MMS TRIM
Light Source: -
Ballast/Driver: -

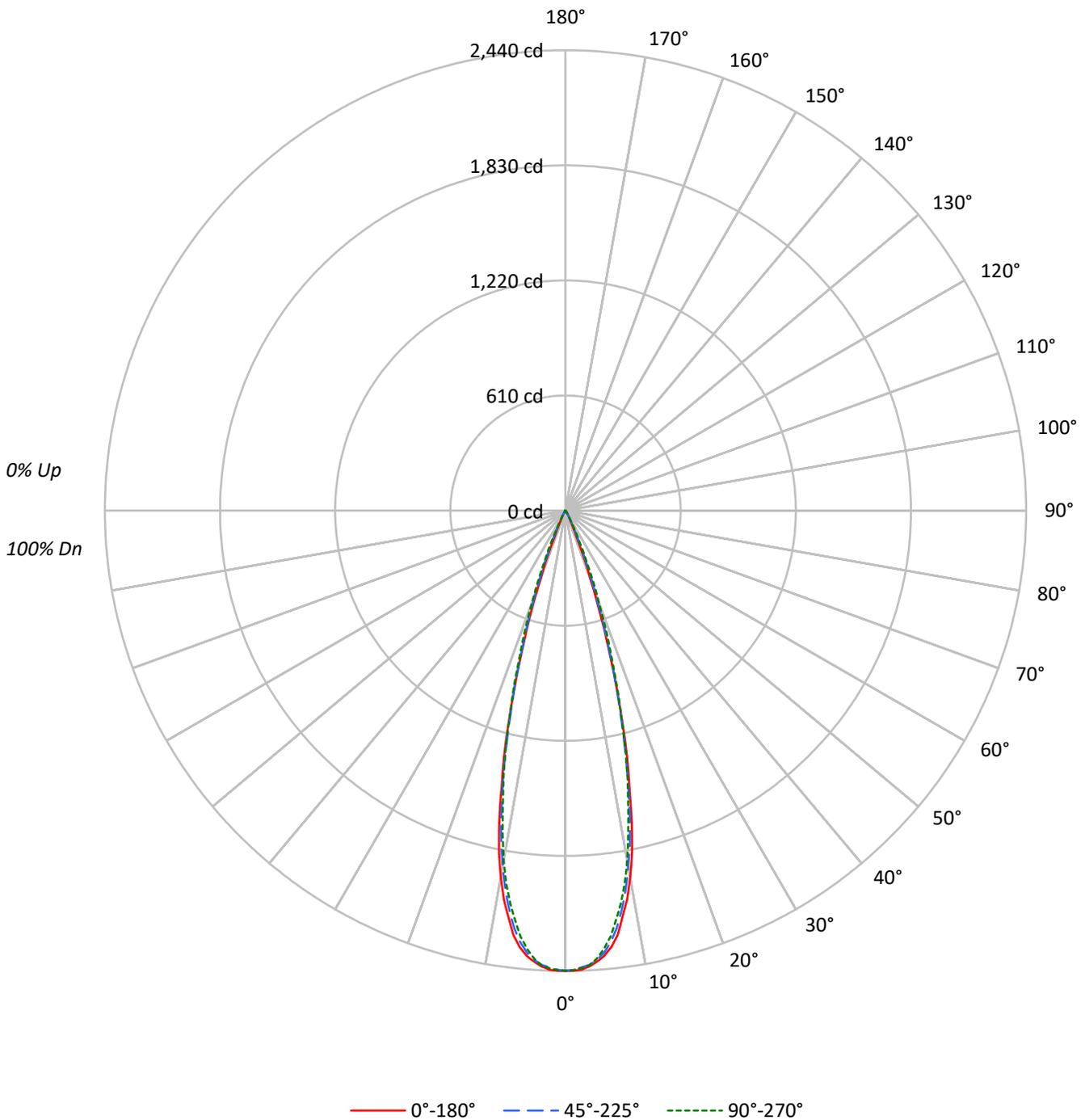
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 591.0 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 0.5 / 0.49 / 0.46
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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 | 110 | 113 | 111 | 109 | 108 | 107 | 106 | 105 | 103 | 103 | 102 | 100 | 99 | 99 | 99 | 99 | 99 | 97 |
| 2 | 112 | 108 | 105 | 103 | 110 | 107 | 104 | 102 | 104 | 101 | 100 | 101 | 99 | 98 | 98 | 97 | 96 | 96 | 96 | 96 | 94 |
| 3 | 108 | 104 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 98 | 96 | 98 | 96 | 94 | 96 | 94 | 93 | 96 | 94 | 93 | 92 |
| 4 | 105 | 100 | 97 | 94 | 104 | 99 | 96 | 93 | 97 | 94 | 92 | 95 | 93 | 91 | 94 | 92 | 90 | 94 | 92 | 90 | 89 |
| 5 | 102 | 97 | 93 | 90 | 101 | 96 | 93 | 90 | 95 | 91 | 89 | 93 | 90 | 88 | 92 | 89 | 88 | 92 | 89 | 88 | 87 |
| 6 | 100 | 94 | 90 | 87 | 99 | 93 | 90 | 87 | 92 | 89 | 86 | 91 | 88 | 86 | 90 | 87 | 85 | 90 | 87 | 85 | 84 |
| 7 | 97 | 91 | 87 | 84 | 96 | 91 | 87 | 84 | 90 | 86 | 84 | 88 | 86 | 83 | 88 | 85 | 83 | 88 | 85 | 83 | 82 |
| 8 | 95 | 89 | 85 | 82 | 94 | 88 | 84 | 82 | 87 | 84 | 82 | 86 | 83 | 81 | 86 | 83 | 81 | 86 | 83 | 81 | 80 |
| 9 | 92 | 86 | 82 | 80 | 92 | 86 | 82 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 84 | 81 | 79 | 84 | 81 | 79 | 78 |
| 10 | 90 | 84 | 80 | 78 | 90 | 84 | 80 | 78 | 83 | 80 | 77 | 82 | 79 | 77 | 82 | 79 | 77 | 82 | 79 | 77 | 76 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 420068 | 420068 | 420068 |
| 5° | 409243 | 406425 | 403088 |
| 10° | 345369 | 334772 | 329333 |
| 15° | 208127 | 202315 | 206041 |
| 20° | 70598 | 81521 | 94039 |
| 25° | 12979 | 20333 | 24019 |
| 30° | 4455 | 4972 | 5568 |
| 35° | 1282 | 1598 | 1724 |
| 40° | 337 | 562 | 450 |
| 45° | 122 | 122 | 122 |
| 50° | 134 | 0 | 134 |
| 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: 0°

Vertical Angle: 52.5°

Luminance: 141 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 210.9 | 35.7 |
| 10°-20° | 308.2 | 52.2 |
| 20°-30° | 65.2 | 11.0 |
| 30°-40° | 6.0 | 1.0 |
| 40°-50° | 0.6 | 0.1 |
| 50°-60° | 0.0 | 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° | 584.4 | 98.9 |
| 0°-40° | 590.4 | 99.9 |
| 0°-60° | 591.0 | 100.0 |
| 0°-90° | 591.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 591.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2439 | 2439 | 2439 | 2439 | 2439 | |
| 5° | 2367 | 2363 | 2351 | 2344 | 2332 | 214 |
| 15° | 1167 | 1163 | 1135 | 1161 | 1156 | 308 |
| 25° | 68 | 76 | 107 | 126 | 126 | 50 |
| 35° | 6 | 8 | 8 | 9 | 8 | 5 |
| 45° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2439.1 | 2439.1 | 2439.1 | 2439.1 | 2439.1 |
| 1° | 2439.6 | 2437.0 | 2433.5 | 2438.6 | 2435.0 |
| 2° | 2434.5 | 2428.4 | 2423.3 | 2428.4 | 2426.9 |
| 3° | 2419.2 | 2414.1 | 2410.5 | 2413.1 | 2413.1 |
| 4° | 2396.3 | 2390.7 | 2387.6 | 2388.1 | 2380.5 |
| 5° | 2367.2 | 2362.7 | 2350.9 | 2343.8 | 2331.6 |
| 6° | 2324.4 | 2313.2 | 2299.0 | 2287.2 | 2271.4 |
| 7° | 2266.4 | 2249.0 | 2228.6 | 2208.3 | 2188.4 |
| 8° | 2173.1 | 2165.0 | 2137.4 | 2123.7 | 2103.8 |
| 9° | 2085.5 | 2065.6 | 2036.0 | 2013.6 | 2002.9 |
| 10° | 1974.9 | 1945.4 | 1914.3 | 1896.4 | 1883.2 |
| 11° | 1844.0 | 1813.9 | 1788.9 | 1762.9 | 1742.6 |
| 12° | 1690.1 | 1664.6 | 1636.1 | 1618.8 | 1594.8 |
| 13° | 1507.7 | 1504.1 | 1472.0 | 1466.4 | 1463.3 |
| 14° | 1351.3 | 1337.0 | 1305.4 | 1314.1 | 1316.1 |
| 15° | 1167.3 | 1163.2 | 1134.7 | 1161.2 | 1155.6 |
| 17.5° | 731.2 | 732.7 | 750.5 | 792.3 | 805.6 |
| 20° | 385.2 | 396.9 | 444.8 | 495.3 | 513.1 |
| 22.5° | 155.9 | 181.9 | 230.8 | 265.0 | 287.9 |
| 25° | 68.3 | 76.4 | 107.0 | 125.9 | 126.4 |
| 27.5° | 38.7 | 39.2 | 51.5 | 53.5 | 54.5 |
| 30° | 22.4 | 22.9 | 25.0 | 26.5 | 28.0 |
| 32.5° | 12.2 | 13.2 | 13.8 | 15.8 | 15.8 |
| 35° | 6.1 | 7.6 | 7.6 | 9.2 | 8.2 |
| 37.5° | 3.6 | 4.1 | 4.6 | 4.6 | 4.1 |
| 40° | 1.5 | 2.0 | 2.5 | 2.5 | 2.0 |
| 42.5° | 0.5 | 1.0 | 1.0 | 1.0 | 1.5 |
| 45° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 47.5° | 0.5 | 0.5 | 0.0 | 0.5 | 0.5 |
| 50° | 0.5 | 0.0 | 0.0 | 0.0 | 0.5 |
| 52.5° | 0.5 | 0.0 | 0.0 | 0.0 | 0.5 |
| 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)