

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: P1319201

Luminaire Tested: LDSQA3D13R209835DE010 3LSQPHR1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R209835DE010 3LSQPHR1MW
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , 3LSQPHR1MW TRIM
Light Source: -
Ballast/Driver: -

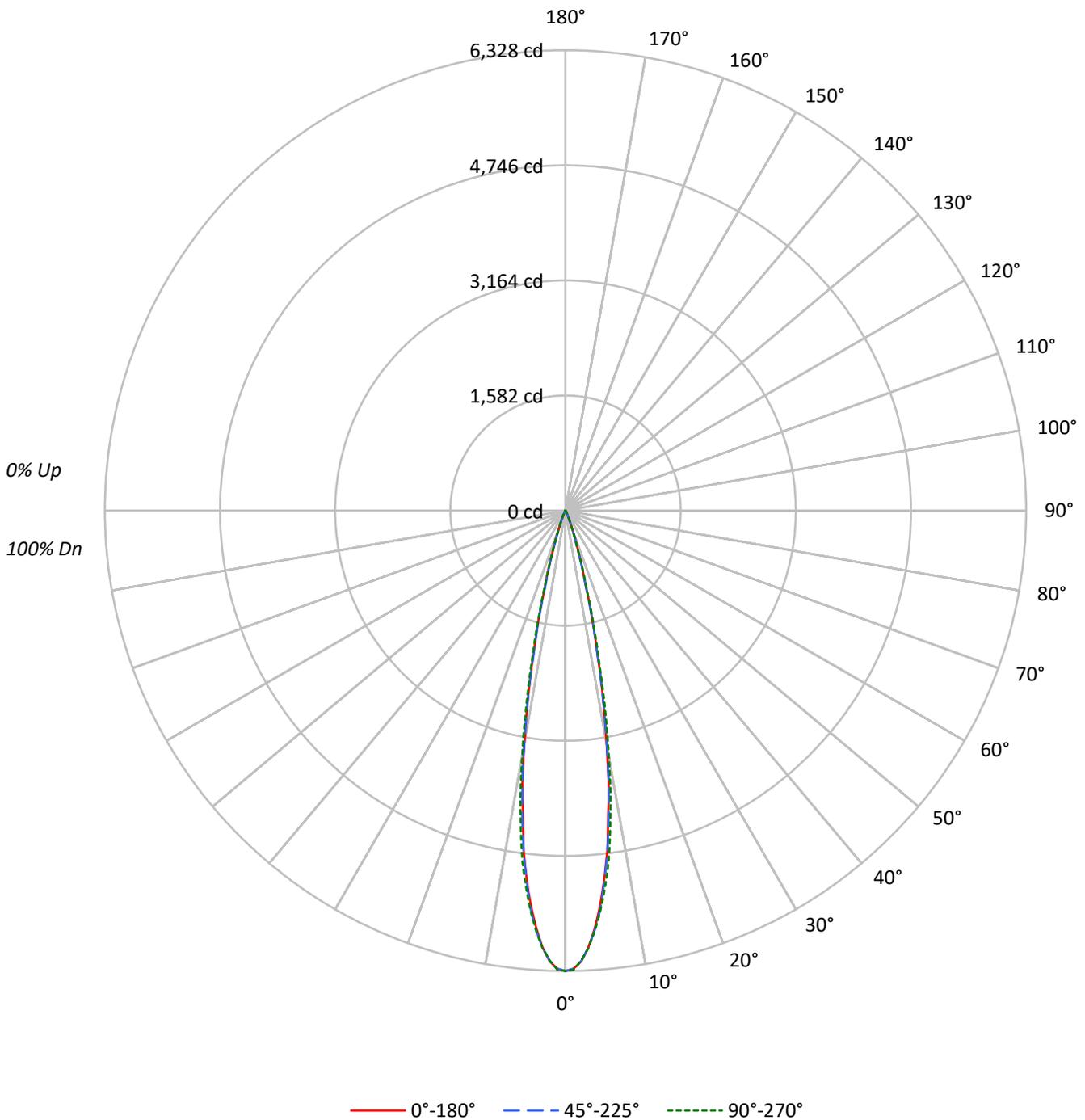
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 850.0 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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 | | | | |
| 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 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 100 | 100 | 100 | 100 | 98 |
| 2 | 113 | 109 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 101 | 102 | 101 | 99 | 99 | 98 | 97 | 97 | 98 | 97 | 96 |
| 3 | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 100 | 102 | 100 | 98 | 100 | 98 | 97 | 98 | 96 | 95 | 95 | 98 | 96 | 94 |
| 4 | 107 | 103 | 99 | 97 | 106 | 102 | 99 | 96 | 100 | 97 | 95 | 98 | 96 | 94 | 96 | 95 | 93 | 93 | 96 | 95 | 92 |
| 5 | 105 | 100 | 97 | 94 | 104 | 99 | 96 | 94 | 98 | 95 | 93 | 96 | 94 | 92 | 95 | 93 | 92 | 92 | 95 | 93 | 91 |
| 6 | 103 | 98 | 94 | 92 | 102 | 97 | 94 | 91 | 96 | 93 | 91 | 95 | 92 | 90 | 93 | 91 | 90 | 90 | 93 | 91 | 89 |
| 7 | 101 | 95 | 92 | 90 | 100 | 95 | 92 | 89 | 94 | 91 | 89 | 93 | 90 | 89 | 92 | 90 | 88 | 88 | 92 | 90 | 87 |
| 8 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 87 | 91 | 88 | 86 |
| 9 | 97 | 92 | 88 | 86 | 96 | 91 | 88 | 86 | 91 | 88 | 86 | 90 | 87 | 86 | 89 | 87 | 85 | 85 | 89 | 87 | 85 |
| 10 | 95 | 90 | 87 | 85 | 95 | 90 | 87 | 85 | 89 | 86 | 84 | 88 | 86 | 84 | 88 | 86 | 84 | 84 | 88 | 86 | 83 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1089911 | 1089911 | 1089911 |
| 5° | 941559 | 950324 | 953868 |
| 10° | 566802 | 572101 | 600571 |
| 15° | 196056 | 191456 | 206719 |
| 20° | 51482 | 48440 | 48568 |
| 25° | 11231 | 13530 | 15392 |
| 30° | 4813 | 4813 | 4972 |
| 35° | 2712 | 2397 | 2544 |
| 40° | 1192 | 1371 | 1529 |
| 45° | 365 | 560 | 560 |
| 50° | 214 | 214 | 214 |
| 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: 22.5°
 Vertical Angle: 45°
 Luminance: 560 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 452.6 | 53.2 |
| 10°-20° | 344.6 | 40.5 |
| 20°-30° | 42.6 | 5.0 |
| 30°-40° | 8.1 | 0.9 |
| 40°-50° | 2.0 | 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° | 839.9 | 98.8 |
| 0°-40° | 847.9 | 99.8 |
| 0°-60° | 850.0 | 100.0 |
| 0°-90° | 850.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 850.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6328 | 6328 | 6328 | 6328 | 6328 | |
| 5° | 5446 | 5442 | 5497 | 5493 | 5518 | 449 |
| 15° | 1100 | 1060 | 1074 | 1138 | 1159 | 344 |
| 25° | 59 | 67 | 71 | 74 | 81 | 41 |
| 35° | 13 | 13 | 11 | 12 | 12 | 8 |
| 45° | 2 | 2 | 2 | 2 | 2 | 2 |
| 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° | 6328.5 | 6328.5 | 6328.5 | 6328.5 | 6328.5 |
| 1° | 6299.0 | 6291.4 | 6297.5 | 6284.6 | 6311.1 |
| 2° | 6198.2 | 6190.7 | 6190.7 | 6183.1 | 6186.9 |
| 3° | 6010.4 | 6022.6 | 6015.0 | 5999.1 | 6019.5 |
| 4° | 5754.5 | 5768.1 | 5780.2 | 5781.0 | 5784.0 |
| 5° | 5446.3 | 5442.5 | 5497.0 | 5493.2 | 5517.5 |
| 6° | 5094.9 | 5090.4 | 5113.8 | 5153.2 | 5201.7 |
| 7° | 4708.7 | 4653.4 | 4716.3 | 4795.8 | 4860.9 |
| 8° | 4208.9 | 4223.3 | 4266.5 | 4360.4 | 4412.6 |
| 9° | 3784.8 | 3700.8 | 3792.4 | 3904.5 | 3961.3 |
| 10° | 3241.1 | 3173.0 | 3271.4 | 3389.5 | 3434.2 |
| 12.5° | 2040.1 | 1981.0 | 2012.8 | 2137.0 | 2156.7 |
| 15° | 1099.6 | 1060.2 | 1073.8 | 1138.2 | 1159.4 |
| 17.5° | 561.1 | 525.5 | 518.0 | 558.9 | 563.4 |
| 20° | 280.9 | 272.6 | 264.3 | 268.1 | 265.0 |
| 22.5° | 130.3 | 141.6 | 140.1 | 132.5 | 141.6 |
| 25° | 59.1 | 67.4 | 71.2 | 74.2 | 81.0 |
| 27.5° | 36.3 | 34.8 | 40.1 | 43.2 | 43.9 |
| 30° | 24.2 | 23.5 | 24.2 | 25.0 | 25.0 |
| 32.5° | 17.4 | 16.7 | 15.9 | 15.9 | 16.7 |
| 35° | 12.9 | 12.9 | 11.4 | 12.1 | 12.1 |
| 37.5° | 9.1 | 9.1 | 8.3 | 9.1 | 9.1 |
| 40° | 5.3 | 6.1 | 6.1 | 6.1 | 6.8 |
| 42.5° | 3.0 | 3.8 | 3.8 | 3.8 | 3.8 |
| 45° | 1.5 | 2.3 | 2.3 | 2.3 | 2.3 |
| 47.5° | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 |
| 50° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 52.5° | 0.8 | 0.0 | 0.0 | 0.0 | 0.8 |
| 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 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)