

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: P1306942

Luminaire Tested: LDSQA3D09R159024DE010 3LSQPHR1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R159024DE010 3LSQPHR1MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , 3LSQPHR1MMS TRIM
Light Source: -
Ballast/Driver: -

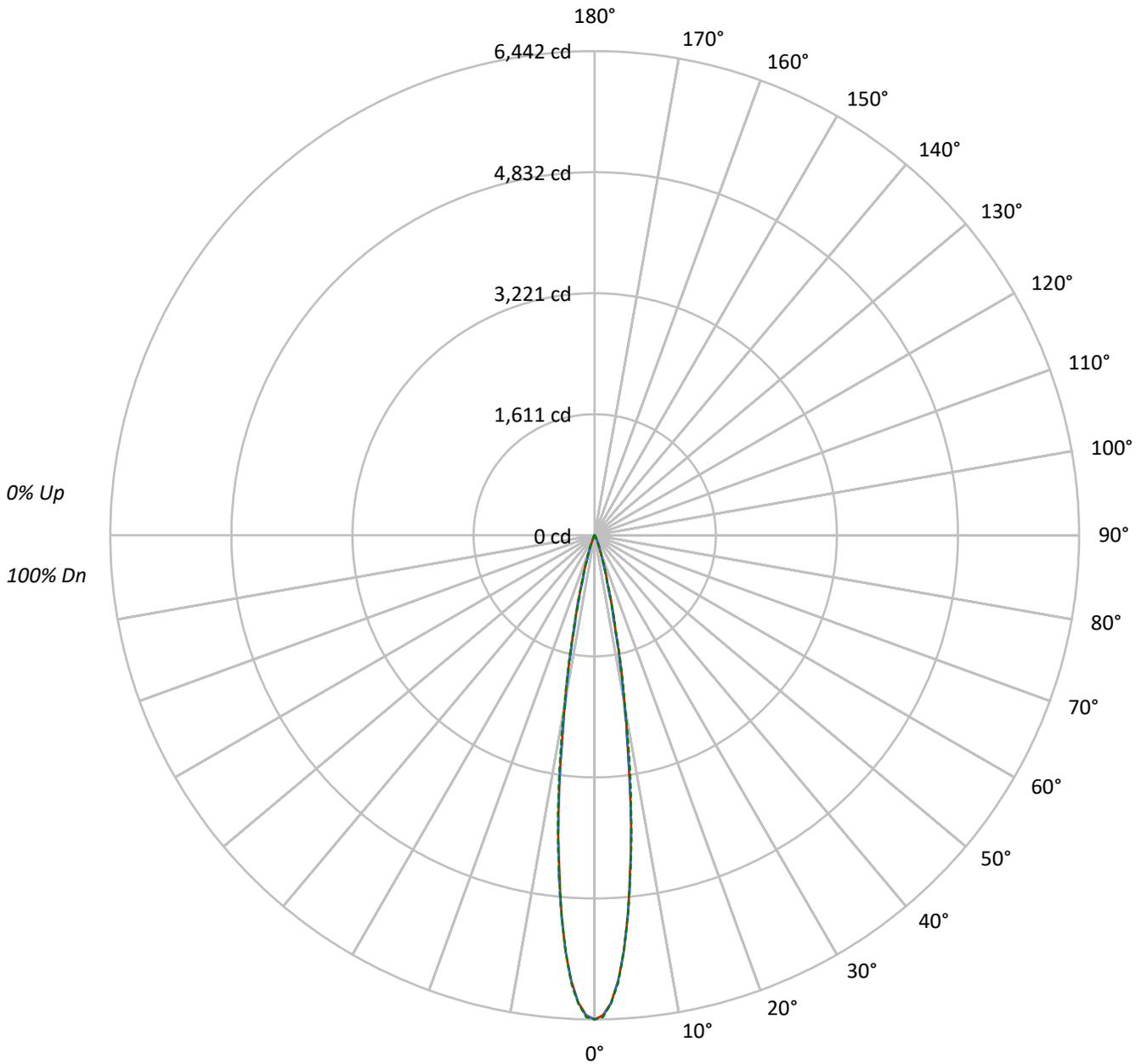
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 645.0 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28
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 (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



— 0°-180° - - 45°-225° - - - 90°-270°



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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 | 104 | 103 | 101 | 100 | 100 | 100 | 100 | 100 | 98 |
| 2 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 104 | 102 | 102 | 101 | 100 | 100 | 99 | 98 | 98 | 98 | 98 | 97 |
| 3 | 110 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 103 | 101 | 99 | 101 | 99 | 97 | 99 | 97 | 96 | 96 | 96 | 96 | 95 |
| 4 | 108 | 104 | 100 | 98 | 106 | 103 | 100 | 98 | 101 | 98 | 96 | 99 | 97 | 95 | 97 | 96 | 94 | 94 | 94 | 94 | 93 |
| 5 | 106 | 101 | 98 | 95 | 104 | 100 | 97 | 95 | 99 | 96 | 94 | 97 | 95 | 94 | 96 | 94 | 93 | 93 | 93 | 93 | 92 |
| 6 | 104 | 99 | 96 | 93 | 103 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 94 | 92 | 95 | 93 | 91 | 91 | 91 | 91 | 91 |
| 7 | 102 | 97 | 94 | 91 | 101 | 96 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 90 | 94 | 92 | 90 | 90 | 90 | 90 | 89 |
| 8 | 100 | 95 | 92 | 90 | 99 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 89 | 89 | 89 | 88 |
| 9 | 98 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 89 | 88 | 91 | 89 | 87 | 87 | 87 | 87 | 87 |
| 10 | 97 | 92 | 89 | 87 | 96 | 92 | 89 | 87 | 91 | 88 | 87 | 90 | 88 | 86 | 90 | 88 | 86 | 86 | 86 | 86 | 86 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1109389 | 1109389 | 1109389 |
| 5° | 875087 | 877420 | 874309 |
| 10° | 400352 | 389859 | 408816 |
| 15° | 119032 | 106266 | 116625 |
| 20° | 35354 | 34291 | 37113 |
| 25° | 10052 | 12998 | 11649 |
| 30° | 3599 | 3858 | 3460 |
| 35° | 1367 | 1219 | 1219 |
| 40° | 585 | 292 | 427 |
| 45° | 317 | 146 | 317 |
| 50° | 161 | 0 | 161 |
| 55° | 180 | 0 | 180 |
| 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: 47.5°

Luminance: 331 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 389.2 | 60.3 |
| 10°-20° | 216.1 | 33.5 |
| 20°-30° | 34.4 | 5.3 |
| 30°-40° | 4.5 | 0.7 |
| 40°-50° | 0.7 | 0.1 |
| 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° | 639.7 | 99.2 |
| 0°-40° | 644.2 | 99.9 |
| 0°-60° | 645.0 | 100.0 |
| 0°-90° | 645.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 645.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6442 | 6442 | 6442 | 6442 | 6442 | |
| 5° | 5062 | 5104 | 5075 | 5054 | 5057 | 388 |
| 15° | 668 | 659 | 596 | 633 | 654 | 220 |
| 25° | 53 | 59 | 68 | 68 | 61 | 32 |
| 35° | 6 | 6 | 6 | 6 | 6 | 5 |
| 45° | 1 | 1 | 1 | 1 | 1 | 1 |
| 55° | 1 | 0 | 0 | 0 | 1 | 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° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6441.6 | 6441.6 | 6441.6 | 6441.6 | 6441.6 | 6441.6 | 6441.6 | 6441.6 | 6441.6 | 6441.6 | 6441.6 |
| 1° | 6386.1 | 6393.2 | 6402.2 | 6393.9 | 6386.1 | 6393.2 | 6383.5 | 6384.8 | 6377.1 | 6393.9 | 6412.6 |
| 2° | 6223.6 | 6232.6 | 6227.4 | 6215.8 | 6233.9 | 6235.2 | 6215.2 | 6205.5 | 6204.2 | 6221.0 | 6227.4 |
| 3° | 5935.9 | 5956.5 | 5957.1 | 5953.3 | 5947.5 | 5935.9 | 5915.2 | 5928.8 | 5910.1 | 5898.4 | 5964.2 |
| 4° | 5553.3 | 5571.4 | 5592.7 | 5578.5 | 5535.9 | 5539.8 | 5553.3 | 5507.5 | 5510.1 | 5536.6 | 5538.5 |
| 5° | 5061.8 | 5116.6 | 5119.2 | 5099.2 | 5065.7 | 5075.3 | 5065.7 | 5052.8 | 5057.3 | 5074.1 | 5057.3 |
| 6° | 4483.2 | 4545.1 | 4499.3 | 4543.2 | 4533.5 | 4545.8 | 4549.0 | 4535.4 | 4545.1 | 4534.8 | 4531.6 |
| 7° | 3983.3 | 3936.2 | 3942.6 | 3924.6 | 3943.9 | 3956.8 | 3964.6 | 3941.3 | 3960.0 | 3989.7 | 3998.1 |
| 8° | 3363.4 | 3349.8 | 3336.3 | 3368.5 | 3359.5 | 3375.0 | 3384.6 | 3410.4 | 3409.2 | 3418.2 | 3447.9 |
| 9° | 2773.1 | 2793.1 | 2805.4 | 2777.0 | 2801.5 | 2753.8 | 2770.5 | 2839.6 | 2821.5 | 2839.6 | 2892.5 |
| 10° | 2289.3 | 2305.5 | 2287.4 | 2286.7 | 2260.9 | 2229.3 | 2227.4 | 2253.2 | 2307.4 | 2350.0 | 2337.7 |
| 12.5° | 1263.0 | 1277.2 | 1279.2 | 1277.9 | 1231.4 | 1179.2 | 1188.8 | 1209.5 | 1243.0 | 1257.2 | 1280.4 |
| 15° | 667.6 | 667.0 | 674.1 | 654.1 | 629.6 | 596.0 | 598.6 | 627.0 | 652.2 | 658.6 | 654.1 |
| 17.5° | 342.5 | 343.8 | 349.0 | 343.8 | 318.0 | 321.2 | 328.3 | 331.6 | 346.4 | 352.2 | 349.0 |
| 20° | 192.9 | 193.5 | 192.9 | 194.8 | 184.5 | 187.1 | 196.1 | 196.7 | 200.0 | 203.2 | 202.5 |
| 22.5° | 110.3 | 111.0 | 114.8 | 113.5 | 111.0 | 114.2 | 116.1 | 119.3 | 120.6 | 119.3 | 123.2 |
| 25° | 52.9 | 53.5 | 53.5 | 61.3 | 65.2 | 68.4 | 69.7 | 68.4 | 67.1 | 61.9 | 61.3 |
| 27.5° | 30.3 | 30.3 | 31.6 | 32.3 | 33.5 | 39.3 | 38.7 | 32.3 | 27.1 | 27.1 | 27.7 |
| 30° | 18.1 | 17.4 | 17.4 | 18.1 | 18.7 | 19.4 | 18.1 | 17.4 | 17.4 | 18.1 | 17.4 |
| 32.5° | 11.0 | 11.0 | 11.0 | 10.3 | 10.3 | 9.7 | 9.7 | 11.0 | 11.0 | 11.0 | 11.0 |
| 35° | 6.5 | 6.5 | 6.5 | 6.5 | 5.8 | 5.8 | 5.8 | 6.5 | 6.5 | 5.8 | 5.8 |
| 37.5° | 3.9 | 3.9 | 3.9 | 3.2 | 3.2 | 2.6 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 40° | 2.6 | 2.6 | 1.9 | 1.9 | 1.3 | 1.3 | 1.3 | 1.9 | 1.9 | 1.9 | 1.9 |
| 42.5° | 1.9 | 1.9 | 1.3 | 1.3 | 0.6 | 0.6 | 0.6 | 1.3 | 1.3 | 1.3 | 1.3 |
| 45° | 1.3 | 1.3 | 1.3 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.3 | 1.3 |
| 47.5° | 1.3 | 1.3 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 |
| 50° | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 |
| 52.5° | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 |
| 55° | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)