

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: P1319628

Luminaire Tested: LDSQA3D02R159840DE010 3LSQPHRL1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R159840DE010 3LSQPHRL1MW
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQPHRL1MW TRIM
Light Source: -
Ballast/Driver: -

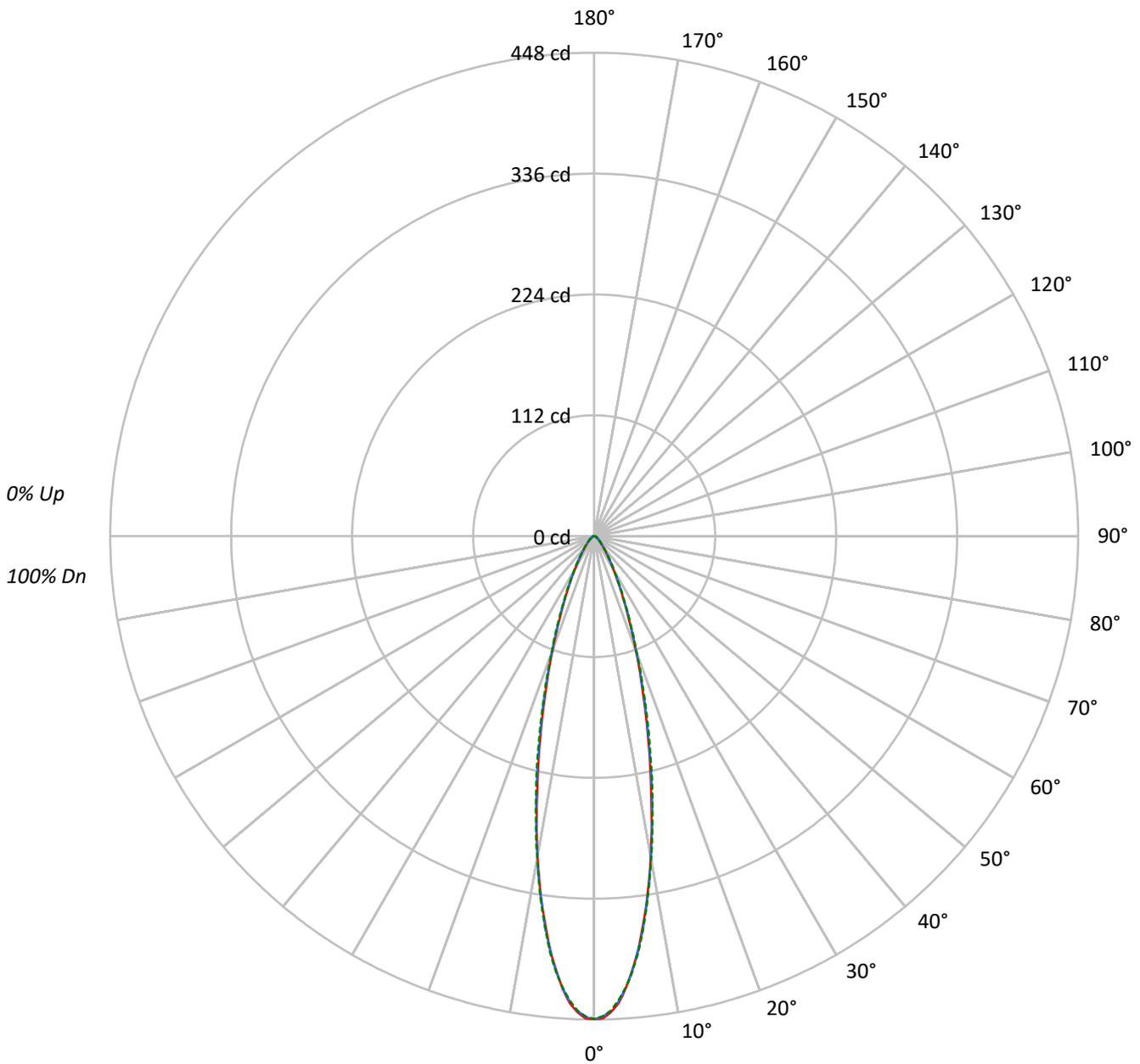
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 148.0 lumens
Efficiency: N/A
Efficacy: 41.1 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.46 / 0.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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



— 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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 96 | 96 | 96 | 94 |
| 2 | 109 | 104 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 90 | 90 | 90 | 89 |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 89 | 94 | 91 | 88 | 92 | 89 | 87 | 90 | 87 | 85 | 85 | 85 | 85 | 84 |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 81 | 81 | 81 | 80 |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 78 | 83 | 79 | 77 | 77 | 77 | 77 | 76 |
| 6 | 92 | 84 | 79 | 75 | 91 | 83 | 78 | 75 | 82 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 73 | 73 | 73 | 72 |
| 7 | 88 | 80 | 75 | 71 | 87 | 80 | 75 | 71 | 79 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 70 | 70 | 70 | 70 | 69 |
| 8 | 85 | 77 | 72 | 68 | 84 | 76 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 68 | 74 | 70 | 67 | 67 | 67 | 67 | 66 |
| 9 | 82 | 74 | 69 | 65 | 81 | 73 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 65 | 65 | 65 | 65 | 64 |
| 10 | 79 | 71 | 66 | 63 | 78 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 62 | 69 | 65 | 62 | 62 | 62 | 62 | 61 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 77070 | 77070 | 77070 |
| 5° | 69809 | 69947 | 70051 |
| 10° | 52709 | 52849 | 53111 |
| 15° | 34180 | 34554 | 35232 |
| 20° | 20582 | 20820 | 21113 |
| 25° | 12029 | 12276 | 12466 |
| 30° | 7060 | 7298 | 7398 |
| 35° | 4352 | 4520 | 4604 |
| 40° | 2855 | 2945 | 2990 |
| 45° | 1997 | 2046 | 2095 |
| 50° | 1474 | 1527 | 1581 |
| 55° | 1201 | 1261 | 1261 |
| 60° | 1033 | 1033 | 1033 |
| 65° | 937 | 937 | 937 |
| 70° | 755 | 856 | 856 |
| 75° | 732 | 732 | 732 |
| 80° | 595 | 793 | 793 |
| 85° | 395 | 395 | 395 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°
 Vertical Angle: 45°
 Luminance: 2095 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 35.3 | 23.8 |
| 10°-20° | 53.9 | 36.4 |
| 20°-30° | 30.6 | 20.7 |
| 30°-40° | 14.0 | 9.4 |
| 40°-50° | 6.7 | 4.5 |
| 50°-60° | 3.7 | 2.5 |
| 60°-70° | 2.3 | 1.6 |
| 70°-80° | 1.2 | 0.8 |
| 80°-90° | 0.3 | 0.2 |
| 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° | 119.8 | 80.9 |
| 0°-40° | 133.8 | 90.4 |
| 0°-60° | 144.2 | 97.4 |
| 0°-90° | 148.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 148.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 448 | 448 | 448 | 448 | 448 | |
| 5° | 404 | 404 | 405 | 405 | 405 | 35 |
| 15° | 192 | 193 | 194 | 196 | 198 | 53 |
| 25° | 63 | 63 | 65 | 65 | 66 | 30 |
| 35° | 21 | 21 | 22 | 22 | 22 | 14 |
| 45° | 8 | 8 | 8 | 9 | 9 | 7 |
| 55° | 4 | 4 | 4 | 4 | 4 | 4 |
| 65° | 2 | 2 | 2 | 2 | 2 | 2 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 |
| 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° | 447.5 | 447.5 | 447.5 | 447.5 | 447.5 |
| 1° | 447.2 | 446.0 | 445.6 | 445.5 | 445.1 |
| 2° | 441.5 | 440.5 | 440.3 | 440.3 | 440.1 |
| 3° | 433.5 | 431.8 | 432.0 | 431.4 | 430.8 |
| 4° | 420.0 | 419.2 | 419.6 | 420.0 | 419.2 |
| 5° | 403.8 | 403.6 | 404.6 | 404.6 | 405.2 |
| 6° | 387.1 | 386.9 | 386.3 | 387.9 | 388.6 |
| 7° | 365.8 | 367.0 | 368.5 | 367.7 | 368.3 |
| 8° | 346.4 | 345.1 | 345.7 | 347.6 | 347.8 |
| 9° | 323.6 | 322.7 | 325.2 | 325.9 | 326.1 |
| 10° | 301.4 | 302.4 | 302.2 | 304.8 | 303.7 |
| 12.5° | 243.4 | 245.0 | 246.7 | 247.8 | 249.0 |
| 15° | 191.7 | 192.7 | 193.8 | 196.5 | 197.6 |
| 17.5° | 147.5 | 148.6 | 149.8 | 152.0 | 152.4 |
| 20° | 112.3 | 112.9 | 113.6 | 115.7 | 115.2 |
| 22.5° | 84.0 | 84.9 | 85.7 | 86.7 | 87.2 |
| 25° | 63.3 | 63.3 | 64.6 | 65.2 | 65.6 |
| 27.5° | 47.1 | 47.5 | 48.5 | 49.2 | 49.0 |
| 30° | 35.5 | 36.1 | 36.7 | 37.1 | 37.2 |
| 32.5° | 27.4 | 27.4 | 27.9 | 28.5 | 28.7 |
| 35° | 20.7 | 21.1 | 21.5 | 21.9 | 21.9 |
| 37.5° | 16.2 | 16.3 | 16.7 | 16.9 | 16.9 |
| 40° | 12.7 | 12.7 | 13.1 | 13.3 | 13.3 |
| 42.5° | 10.1 | 10.3 | 10.5 | 10.6 | 10.6 |
| 45° | 8.2 | 8.2 | 8.4 | 8.6 | 8.6 |
| 47.5° | 6.7 | 6.7 | 6.8 | 7.0 | 7.0 |
| 50° | 5.5 | 5.7 | 5.7 | 5.9 | 5.9 |
| 52.5° | 4.8 | 4.8 | 4.8 | 4.9 | 4.9 |
| 55° | 4.0 | 4.0 | 4.2 | 4.2 | 4.2 |
| 57.5° | 3.4 | 3.4 | 3.4 | 3.6 | 3.6 |
| 60° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 62.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 65° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 67.5° | 1.9 | 1.9 | 1.9 | 2.1 | 2.1 |
| 70° | 1.5 | 1.7 | 1.7 | 1.7 | 1.7 |
| 72.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 75° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 77.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 80° | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 85° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)