

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: P1310398

Luminaire Tested: LDSQA3D13R409035DE010 3LSQCDR1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-38)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R409035DE010 3LSQCDR1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 90CRI , 3LSQCDR1MW TRIM
Light Source: -
Ballast/Driver: -

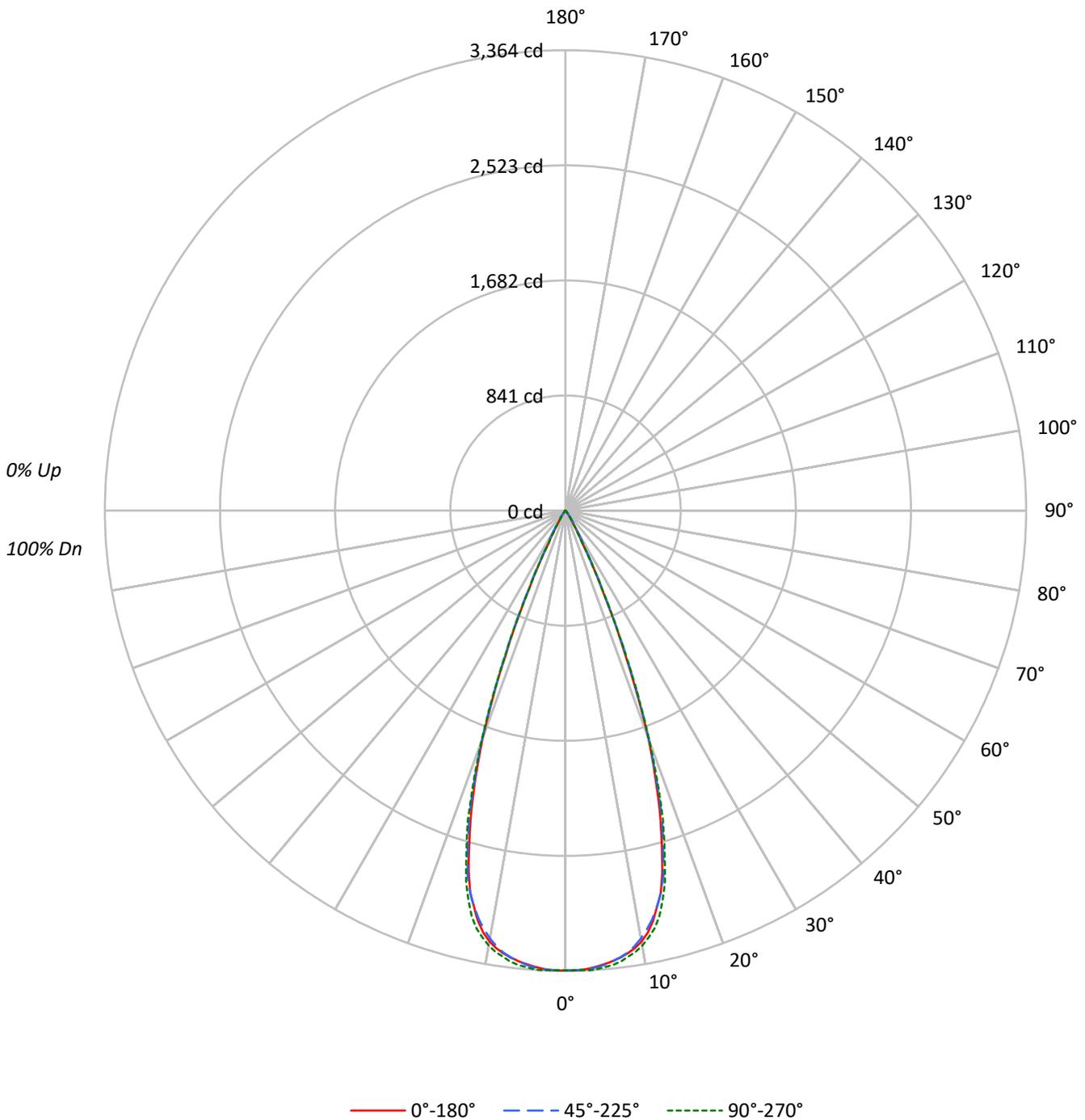
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1422.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.6
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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





TEST NUMBER: P1310398

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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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 115 | 112 | 110 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 98 | 98 | 98 | 98 | 96 |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 96 | 95 | 94 | 94 | 94 | 92 |
| 3 | 107 | 102 | 98 | 95 | 105 | 100 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 93 | 91 | 90 | 90 | 90 | 88 |
| 4 | 103 | 97 | 93 | 90 | 101 | 96 | 92 | 89 | 94 | 91 | 88 | 92 | 89 | 87 | 91 | 88 | 86 | 86 | 86 | 85 |
| 5 | 99 | 93 | 89 | 85 | 98 | 92 | 88 | 85 | 91 | 87 | 84 | 89 | 86 | 84 | 88 | 85 | 83 | 83 | 83 | 82 |
| 6 | 96 | 89 | 85 | 82 | 95 | 89 | 84 | 81 | 87 | 84 | 81 | 86 | 83 | 80 | 85 | 82 | 80 | 80 | 80 | 79 |
| 7 | 93 | 86 | 81 | 78 | 92 | 85 | 81 | 78 | 84 | 80 | 78 | 83 | 80 | 77 | 82 | 79 | 77 | 77 | 77 | 76 |
| 8 | 90 | 83 | 78 | 75 | 89 | 82 | 78 | 75 | 81 | 77 | 75 | 80 | 77 | 74 | 80 | 76 | 74 | 74 | 74 | 73 |
| 9 | 87 | 80 | 75 | 72 | 86 | 79 | 75 | 72 | 79 | 75 | 72 | 78 | 74 | 72 | 77 | 74 | 72 | 72 | 72 | 71 |
| 10 | 84 | 77 | 73 | 70 | 84 | 77 | 73 | 70 | 76 | 72 | 70 | 75 | 72 | 69 | 75 | 71 | 69 | 69 | 69 | 68 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 578651 | 578651 | 578651 |
| 5° | 574810 | 575675 | 578787 |
| 10° | 559247 | 555050 | 564319 |
| 15° | 487271 | 492263 | 499930 |
| 20° | 324563 | 326212 | 329328 |
| 25° | 118007 | 121617 | 118577 |
| 30° | 25057 | 33608 | 25057 |
| 35° | 8830 | 14927 | 8410 |
| 40° | 3147 | 4721 | 3147 |
| 45° | 731 | 1948 | 731 |
| 50° | 536 | 804 | 536 |
| 55° | 601 | 601 | 601 |
| 60° | 689 | 689 | 689 |
| 65° | 408 | 815 | 408 |
| 70° | 504 | 504 | 504 |
| 75° | 665 | 665 | 665 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1948 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 314.0 | 22.1 |
| 10°-20° | 731.6 | 51.5 |
| 20°-30° | 329.3 | 23.2 |
| 30°-40° | 37.5 | 2.6 |
| 40°-50° | 5.4 | 0.4 |
| 50°-60° | 1.8 | 0.1 |
| 60°-70° | 1.5 | 0.1 |
| 70°-80° | 0.9 | 0.1 |
| 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° | 1374.9 | 96.7 |
| 0°-40° | 1412.3 | 99.3 |
| 0°-60° | 1419.5 | 99.8 |
| 0°-90° | 1422.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1422.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3360 | 3360 | 3360 | 3360 | 3360 | |
| 5° | 3325 | 3321 | 3330 | 3345 | 3348 | 314 |
| 15° | 2733 | 2740 | 2761 | 2783 | 2804 | 726 |
| 25° | 621 | 625 | 640 | 640 | 624 | 321 |
| 35° | 42 | 47 | 71 | 45 | 40 | 31 |
| 45° | 3 | 5 | 8 | 5 | 3 | 4 |
| 55° | 2 | 2 | 2 | 2 | 2 | 2 |
| 65° | 1 | 2 | 2 | 2 | 1 | 1 |
| 75° | 1 | 1 | 1 | 1 | 1 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P1310398

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3359.9 | 3359.9 | 3359.9 | 3359.9 | 3359.9 |
| 1° | 3361.9 | 3358.9 | 3357.9 | 3363.9 | 3358.9 |
| 2° | 3358.9 | 3356.9 | 3357.9 | 3363.9 | 3359.9 |
| 3° | 3349.9 | 3350.9 | 3353.9 | 3364.9 | 3363.9 |
| 4° | 3338.9 | 3337.9 | 3343.9 | 3357.9 | 3357.9 |
| 5° | 3324.9 | 3320.9 | 3329.9 | 3344.9 | 3347.9 |
| 6° | 3308.9 | 3303.9 | 3310.9 | 3329.9 | 3336.9 |
| 7° | 3290.9 | 3280.9 | 3286.9 | 3309.9 | 3318.9 |
| 8° | 3266.9 | 3253.9 | 3260.9 | 3283.9 | 3290.9 |
| 9° | 3236.9 | 3216.9 | 3222.9 | 3250.9 | 3264.9 |
| 10° | 3197.9 | 3172.9 | 3173.9 | 3204.9 | 3226.9 |
| 11° | 3142.9 | 3114.9 | 3115.9 | 3154.9 | 3177.9 |
| 12° | 3069.9 | 3044.9 | 3049.9 | 3085.9 | 3122.9 |
| 13° | 2970.9 | 2963.9 | 2969.9 | 3008.9 | 3042.9 |
| 14° | 2874.9 | 2867.9 | 2878.9 | 2914.9 | 2930.9 |
| 15° | 2732.9 | 2739.9 | 2760.9 | 2782.9 | 2803.9 |
| 17.5° | 2282.9 | 2309.9 | 2334.9 | 2349.9 | 2367.9 |
| 20° | 1770.9 | 1739.9 | 1779.9 | 1761.9 | 1796.9 |
| 22.5° | 1143.0 | 1166.0 | 1176.0 | 1166.0 | 1170.0 |
| 25° | 621.0 | 625.0 | 640.0 | 640.0 | 624.0 |
| 27.5° | 264.0 | 285.0 | 304.0 | 297.0 | 264.0 |
| 30° | 126.0 | 145.0 | 169.0 | 146.0 | 126.0 |
| 32.5° | 71.0 | 84.0 | 109.0 | 82.0 | 69.0 |
| 35° | 42.0 | 47.0 | 71.0 | 45.0 | 40.0 |
| 37.5° | 25.0 | 26.0 | 39.0 | 27.0 | 24.0 |
| 40° | 14.0 | 17.0 | 21.0 | 17.0 | 14.0 |
| 42.5° | 7.0 | 10.0 | 13.0 | 10.0 | 7.0 |
| 45° | 3.0 | 5.0 | 8.0 | 5.0 | 3.0 |
| 47.5° | 3.0 | 3.0 | 5.0 | 3.0 | 3.0 |
| 50° | 2.0 | 2.0 | 3.0 | 2.0 | 2.0 |
| 52.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 55° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 57.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 60° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 62.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 65° | 1.0 | 2.0 | 2.0 | 2.0 | 1.0 |
| 67.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 70° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 72.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 75° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 77.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 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)