

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: P1311515

Luminaire Tested: LDSQA3D13R409040DE010 3LSQCDR1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-26)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R409040DE010 3LSQCDR1MMS
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , 3LSQCDR1MMS TRIM
Light Source: -
Ballast/Driver: -

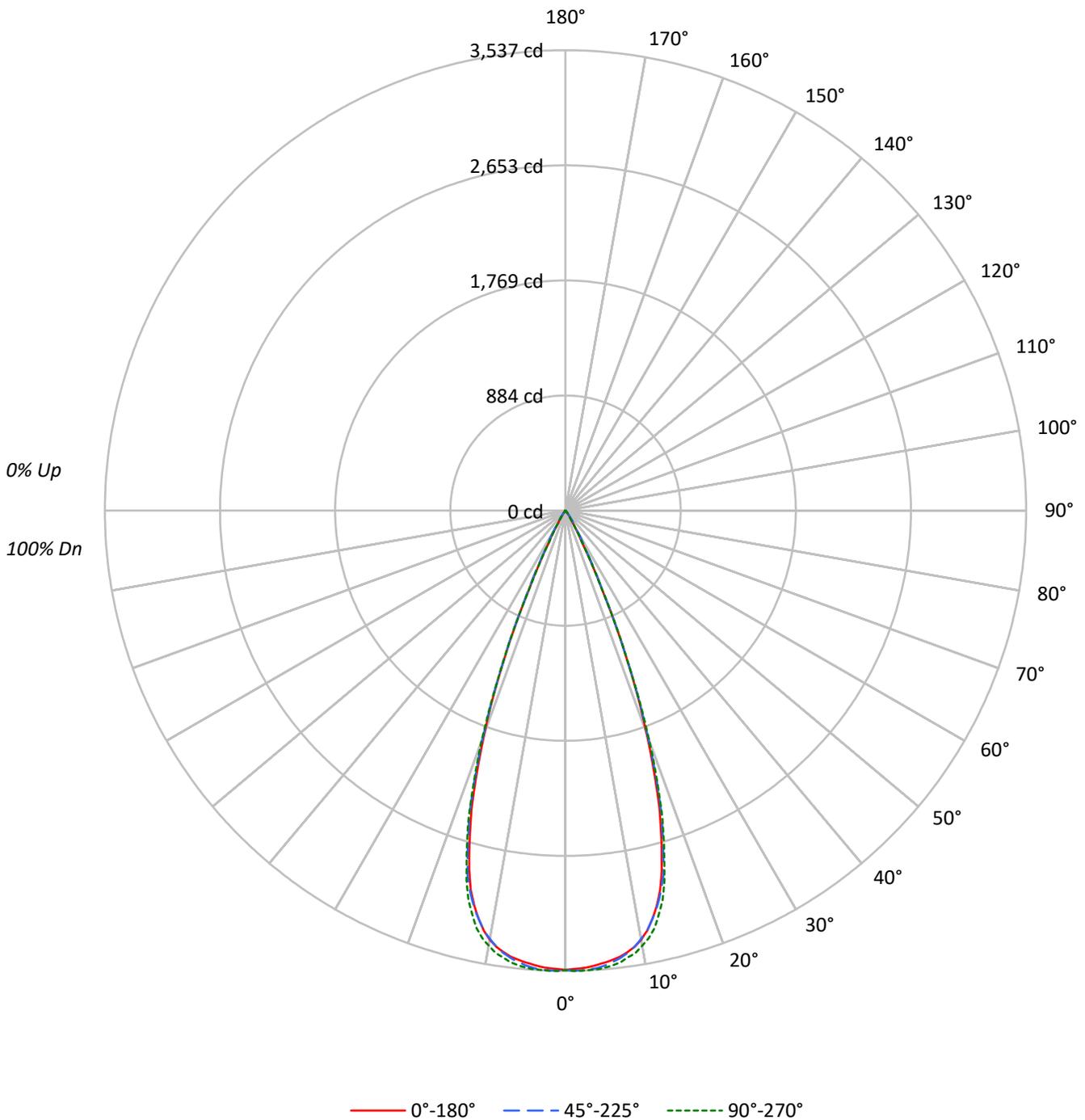
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1484.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 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 (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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 98 | 98 | 96 |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 94 | 94 | 92 |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 90 | 90 | 89 |
| 4 | 103 | 97 | 93 | 90 | 102 | 96 | 92 | 89 | 94 | 91 | 88 | 92 | 90 | 87 | 91 | 88 | 87 | 87 | 87 | 85 |
| 5 | 100 | 93 | 89 | 86 | 98 | 93 | 88 | 85 | 91 | 87 | 85 | 89 | 86 | 84 | 88 | 85 | 83 | 83 | 83 | 82 |
| 6 | 96 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 86 | 83 | 81 | 85 | 82 | 80 | 80 | 80 | 79 |
| 7 | 93 | 86 | 82 | 79 | 92 | 86 | 81 | 78 | 85 | 81 | 78 | 83 | 80 | 78 | 82 | 80 | 77 | 77 | 77 | 76 |
| 8 | 90 | 83 | 79 | 76 | 89 | 83 | 78 | 75 | 82 | 78 | 75 | 81 | 77 | 75 | 80 | 77 | 75 | 75 | 75 | 73 |
| 9 | 87 | 80 | 76 | 73 | 86 | 80 | 75 | 73 | 79 | 75 | 72 | 78 | 75 | 72 | 77 | 74 | 72 | 72 | 72 | 71 |
| 10 | 85 | 77 | 73 | 70 | 84 | 77 | 73 | 70 | 76 | 72 | 70 | 76 | 72 | 70 | 75 | 72 | 70 | 70 | 70 | 69 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 607774 | 607774 | 607774 |
| 5° | 602506 | 606292 | 609196 |
| 10° | 585357 | 584255 | 593383 |
| 15° | 509219 | 517421 | 523750 |
| 20° | 334203 | 340727 | 345126 |
| 25° | 119147 | 126102 | 118558 |
| 30° | 25972 | 35120 | 26191 |
| 35° | 8347 | 14507 | 8136 |
| 40° | 2585 | 4474 | 2361 |
| 45° | 244 | 1534 | 244 |
| 50° | 0 | 268 | 0 |
| 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: 45°
 Vertical Angle: 45°
 Luminance: 1534 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 330.0 | 22.2 |
| 10°-20° | 768.6 | 51.8 |
| 20°-30° | 344.7 | 23.2 |
| 30°-40° | 37.2 | 2.5 |
| 40°-50° | 3.5 | 0.2 |
| 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° | 1443.3 | 97.3 |
| 0°-40° | 1480.5 | 99.8 |
| 0°-60° | 1484.0 | 100.0 |
| 0°-90° | 1484.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1484.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3529 | 3529 | 3529 | 3529 | 3529 | |
| 5° | 3485 | 3494 | 3507 | 3512 | 3524 | 329 |
| 15° | 2856 | 2877 | 2902 | 2919 | 2938 | 759 |
| 25° | 627 | 646 | 664 | 675 | 624 | 335 |
| 35° | 40 | 46 | 69 | 45 | 39 | 31 |
| 45° | 1 | 2 | 6 | 2 | 1 | 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° | 3529.0 | 3529.0 | 3529.0 | 3529.0 | 3529.0 |
| 1° | 3521.7 | 3529.0 | 3535.3 | 3530.0 | 3537.4 |
| 2° | 3518.5 | 3526.9 | 3536.3 | 3531.1 | 3537.4 |
| 3° | 3510.2 | 3520.6 | 3531.1 | 3527.9 | 3534.2 |
| 4° | 3498.7 | 3507.0 | 3522.7 | 3522.7 | 3532.1 |
| 5° | 3485.1 | 3494.5 | 3507.0 | 3512.3 | 3523.8 |
| 6° | 3470.5 | 3475.7 | 3485.1 | 3495.6 | 3511.2 |
| 7° | 3451.7 | 3451.7 | 3463.2 | 3473.6 | 3494.5 |
| 8° | 3425.5 | 3423.4 | 3431.8 | 3445.4 | 3464.2 |
| 9° | 3393.1 | 3385.8 | 3392.1 | 3412.0 | 3440.2 |
| 10° | 3347.2 | 3340.9 | 3340.9 | 3366.0 | 3393.1 |
| 11° | 3287.6 | 3285.5 | 3286.6 | 3310.6 | 3347.2 |
| 12° | 3207.1 | 3209.2 | 3209.2 | 3236.4 | 3281.3 |
| 13° | 3116.2 | 3115.2 | 3124.6 | 3154.9 | 3185.2 |
| 14° | 3005.4 | 3011.7 | 3021.1 | 3048.3 | 3079.6 |
| 15° | 2856.0 | 2876.9 | 2902.0 | 2918.7 | 2937.5 |
| 17.5° | 2401.4 | 2422.3 | 2456.8 | 2470.4 | 2474.6 |
| 20° | 1823.5 | 1853.8 | 1859.1 | 1886.2 | 1883.1 |
| 22.5° | 1222.7 | 1220.6 | 1224.7 | 1227.9 | 1228.9 |
| 25° | 627.0 | 645.8 | 663.6 | 675.1 | 623.9 |
| 27.5° | 272.7 | 305.1 | 328.1 | 297.8 | 275.9 |
| 30° | 130.6 | 148.4 | 176.6 | 149.4 | 131.7 |
| 32.5° | 71.1 | 82.6 | 111.8 | 81.5 | 70.0 |
| 35° | 39.7 | 46.0 | 69.0 | 44.9 | 38.7 |
| 37.5° | 23.0 | 25.1 | 37.6 | 25.1 | 21.9 |
| 40° | 11.5 | 14.6 | 19.9 | 14.6 | 10.5 |
| 42.5° | 4.2 | 7.3 | 10.5 | 7.3 | 4.2 |
| 45° | 1.0 | 2.1 | 6.3 | 2.1 | 1.0 |
| 47.5° | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 |
| 50° | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)