

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: P1312327

Luminaire Tested: LDSQA3D05R709050DE010 3LSQCDR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-31)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R709050DE010 3LSQCDR1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

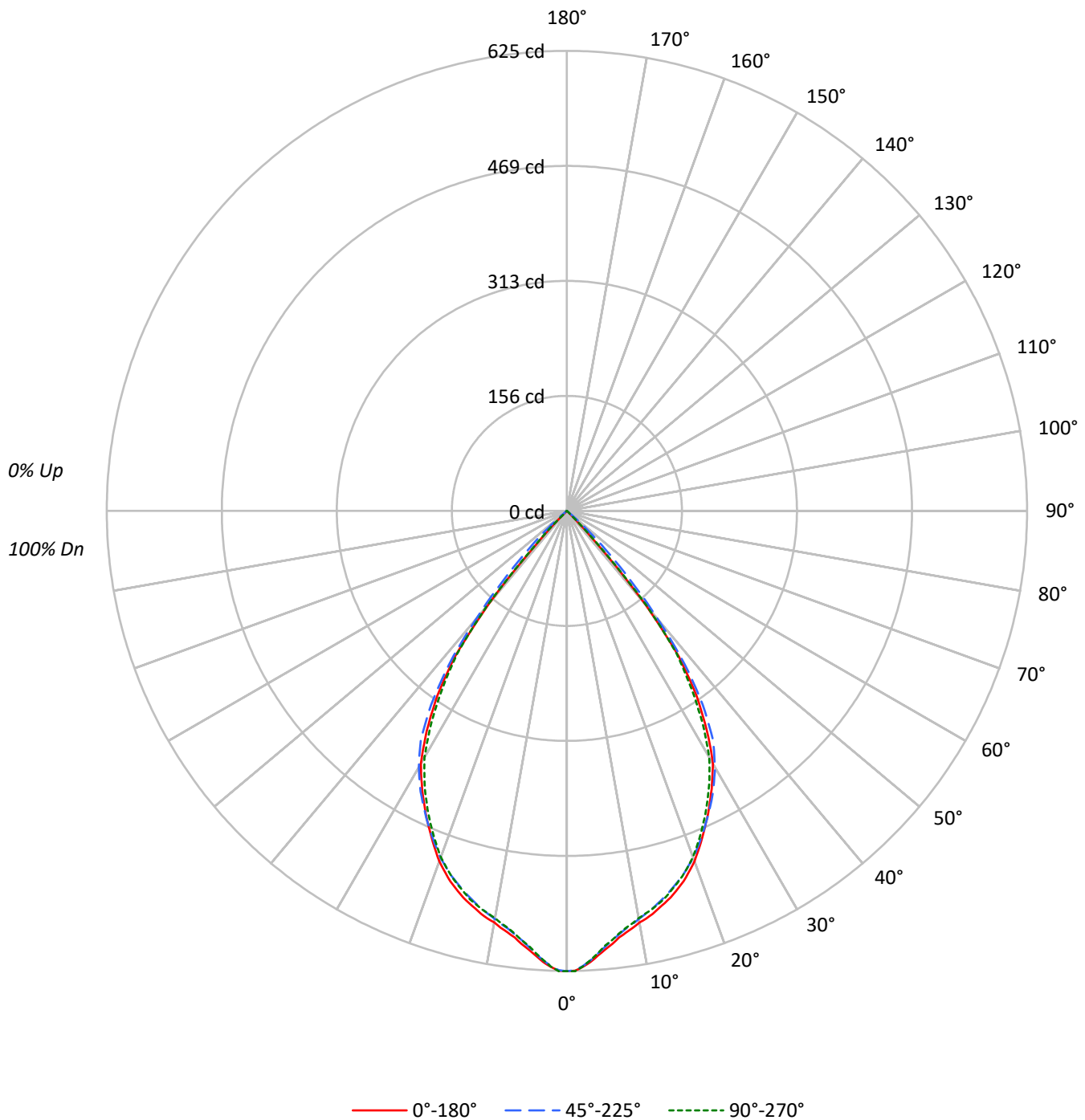
Lumens per Lamp: N/A  
Luminaire Lumens: 647.0 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Spacing Criteria (0/90/45): 1 / 0.99 / 1.03  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 |  | 101 | 99  | 98  |  | 97  |
| 2   | 108 | 103 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 92  |  | 95  | 92  | 90  |  | 92  |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  |  | 89  | 86  | 83  |  | 87  |
| 4   | 96  | 89  | 83  | 79  | 95  | 88  | 82  | 78  | 85  | 81  | 77  |  | 83  | 79  | 76  |  | 81  |
| 5   | 91  | 83  | 77  | 72  | 90  | 82  | 76  | 72  | 80  | 75  | 71  |  | 78  | 74  | 71  |  | 77  |
| 6   | 86  | 77  | 71  | 67  | 85  | 76  | 71  | 66  | 75  | 70  | 66  |  | 73  | 69  | 65  |  | 72  |
| 7   | 82  | 72  | 66  | 62  | 80  | 71  | 66  | 61  | 70  | 65  | 61  |  | 69  | 64  | 61  |  | 68  |
| 8   | 78  | 68  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 61  | 57  |  | 65  | 60  | 57  |  | 64  |
| 9   | 74  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 57  | 53  |  | 61  | 56  | 53  |  | 60  |
| 10  | 70  | 60  | 54  | 50  | 69  | 59  | 53  | 50  | 58  | 53  | 49  |  | 58  | 53  | 49  |  | 57  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 107708 | 107708 | 107708 |
| 5°  | 103383 | 102812 | 102535 |
| 10° | 99314  | 98457  | 98265  |
| 15° | 96976  | 95603  | 95800  |
| 20° | 92866  | 91949  | 91748  |
| 25° | 86196  | 86405  | 85056  |
| 30° | 78890  | 79964  | 76921  |
| 35° | 64524  | 67636  | 62001  |
| 40° | 37140  | 43300  | 38130  |
| 45° | 536    | 17999  | 1875   |
| 50° | 0      | 1902   | 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: 17999 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.8   | 8.6       |
| 10°-20°   | 151.2  | 23.4      |
| 20°-30°   | 207.7  | 32.1      |
| 30°-40°   | 188.3  | 29.1      |
| 40°-50°   | 43.8   | 6.8       |
| 50°-60°   | 0.2    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 414.7  | 64.1      |
| 0°-40°    | 603.0  | 93.2      |
| 0°-60°    | 647.0  | 100.0     |
| 0°-90°    | 647.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 647.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 625 | 625   | 625 | 625   | 625 |      |
| 5°  | 598 | 596   | 595 | 594   | 593 | 56   |
| 15° | 544 | 540   | 536 | 536   | 537 | 153  |
| 25° | 454 | 456   | 455 | 450   | 448 | 208  |
| 35° | 307 | 311   | 322 | 308   | 295 | 184  |
| 45° | 2   | 25    | 74  | 32    | 8   | 26   |
| 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   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 625.4 | 625.4 | 625.4 | 625.4 | 625.4 |
| 1°    | 624.8 | 623.7 | 624.3 | 624.8 | 625.4 |
| 2°    | 619.9 | 618.8 | 618.8 | 619.4 | 619.4 |
| 3°    | 613.9 | 611.7 | 611.7 | 611.2 | 611.2 |
| 4°    | 605.7 | 604.0 | 602.9 | 602.4 | 602.4 |
| 5°    | 598.0 | 596.4 | 594.7 | 593.6 | 593.1 |
| 6°    | 591.5 | 588.7 | 586.5 | 586.0 | 586.5 |
| 7°    | 583.8 | 582.2 | 580.0 | 578.3 | 578.9 |
| 8°    | 578.3 | 576.1 | 573.4 | 572.3 | 572.3 |
| 9°    | 573.4 | 571.2 | 568.5 | 566.3 | 567.4 |
| 10°   | 567.9 | 565.7 | 563.0 | 561.4 | 561.9 |
| 11°   | 564.1 | 561.4 | 558.1 | 557.0 | 557.5 |
| 12°   | 559.7 | 556.4 | 553.2 | 552.6 | 553.7 |
| 13°   | 554.3 | 551.0 | 547.7 | 547.7 | 548.8 |
| 14°   | 549.3 | 545.5 | 542.2 | 542.2 | 543.9 |
| 15°   | 543.9 | 540.0 | 536.2 | 536.2 | 537.3 |
| 17.5° | 527.4 | 524.2 | 520.3 | 520.3 | 520.9 |
| 20°   | 506.7 | 505.0 | 501.7 | 500.1 | 500.6 |
| 22.5° | 480.4 | 480.4 | 478.7 | 476.0 | 474.9 |
| 25°   | 453.6 | 455.8 | 454.7 | 450.3 | 447.6 |
| 27.5° | 425.7 | 429.5 | 430.1 | 423.5 | 418.6 |
| 30°   | 396.7 | 400.0 | 402.1 | 394.5 | 386.8 |
| 32.5° | 354.0 | 363.8 | 369.3 | 358.9 | 343.1 |
| 35°   | 306.9 | 311.3 | 321.7 | 308.0 | 294.9 |
| 37.5° | 249.5 | 255.0 | 263.7 | 252.8 | 245.1 |
| 40°   | 165.2 | 187.1 | 192.6 | 187.1 | 169.6 |
| 42.5° | 59.6  | 105.1 | 126.4 | 107.2 | 70.0  |
| 45°   | 2.2   | 24.6  | 73.9  | 31.7  | 7.7   |
| 47.5° | 0.0   | 0.5   | 33.4  | 1.1   | 0.0   |
| 50°   | 0.0   | 0.0   | 7.1   | 0.0   | 0.0   |
| 52.5° | 0.0   | 0.0   | 0.5   | 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)