

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: P1314396

Luminaire Tested: LDSQA3D05R659730DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R659730DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

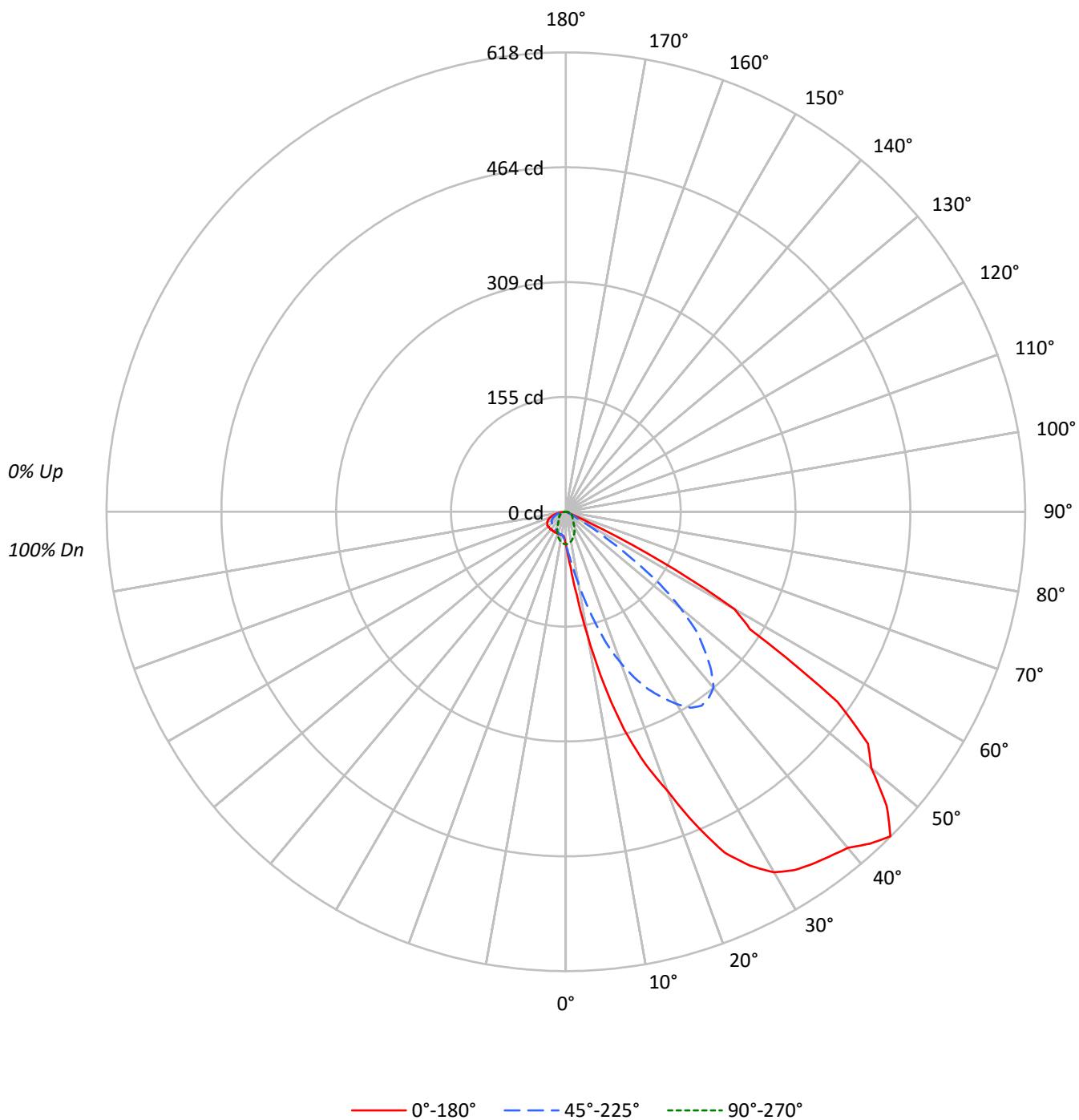
Lumens per Lamp: N/A  
Luminaire Lumens: 448.0 lumens  
Efficiency: N/A  
Efficacy: 62.2 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |     |    | 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 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 94  | 91  | 92  | 90  | 89  | 87  |    |    |
| 2   | 101 | 93  | 87  | 82  | 98  | 92  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 79  | 76  | 74  |    |    |
| 3   | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 62  |    |    |
| 4   | 84  | 73  | 64  | 58  | 82  | 71  | 63  | 57  | 69  | 62  | 57  | 67  | 61  | 56  | 64  | 59  | 55  | 53  |    |    |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |
| 6   | 71  | 57  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 46  | 41  | 39  |    |    |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |    |    |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |
| 10  | 52  | 38  | 30  | 25  | 50  | 38  | 30  | 25  | 37  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 23  |    |    |

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

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 7509   | 7509  | 7509 | 7509 | 7509  |
| 5°  | 13122  | 10719 | 7382 | 5982 | 5740  |
| 10° | 29695  | 17278 | 7065 | 5491 | 5579  |
| 15° | 53989  | 27797 | 6561 | 5527 | 5688  |
| 20° | 73182  | 39679 | 5920 | 5517 | 5755  |
| 25° | 96191  | 50110 | 5207 | 5378 | 5891  |
| 30° | 111385 | 59401 | 4474 | 5369 | 6165  |
| 35° | 121648 | 66963 | 3784 | 5487 | 6518  |
| 40° | 132689 | 69470 | 3327 | 5755 | 6969  |
| 45° | 150422 | 64446 | 3166 | 6138 | 7550  |
| 50° | 143691 | 53801 | 3135 | 6511 | 8306  |
| 55° | 133916 | 30206 | 3243 | 7026 | 9158  |
| 60° | 90210  | 6510  | 3238 | 7440 | 9886  |
| 65° | 13896  | 1630  | 3097 | 7702 | 10799 |
| 70° | 1561   | 1561  | 2921 | 7906 | 11531 |
| 75° | 1464   | 1464  | 2662 | 7785 | 11645 |
| 80° | 1289   | 1785  | 2678 | 7141 | 11604 |
| 85° | 790    | 1778  | 2569 | 7114 | 10671 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 150422 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 5.3    | 1.2       |
| 10°-20°   | 28.5   | 6.4       |
| 20°-30°   | 66.9   | 14.9      |
| 30°-40°   | 101.1  | 22.6      |
| 40°-50°   | 116.2  | 25.9      |
| 50°-60°   | 92.3   | 20.6      |
| 60°-70°   | 27.6   | 6.2       |
| 70°-80°   | 7.5    | 1.7       |
| 80°-90°   | 2.5    | 0.6       |
| 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°    | 100.7  | 22.5      |
| 0°-40°    | 201.8  | 45.1      |
| 0°-60°    | 410.3  | 91.6      |
| 0°-90°    | 448.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 448.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 44  | 44  | 44  | 44   | 44   |      |
| 5°  | 76  | 62  | 43  | 35   | 33   | 10   |
| 15° | 303 | 156 | 37  | 31   | 32   | 87   |
| 25° | 506 | 264 | 27  | 28   | 31   | 231  |
| 35° | 579 | 318 | 18  | 26   | 31   | 363  |
| 45° | 618 | 265 | 13  | 25   | 31   | 459  |
| 55° | 446 | 101 | 11  | 23   | 30   | 367  |
| 65° | 34  | 4   | 8   | 19   | 26   | 77   |
| 75° | 2   | 2   | 4   | 12   | 18   | 2    |
| 85° | 0   | 1   | 1   | 4    | 5    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 45°   | 67.5° | 90°  | 112.5° | 135° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|------|
| 0°    | 43.6  | 43.6  | 43.6  | 43.6  | 43.6  | 43.6  | 43.6  | 43.6  | 43.6 | 43.6   | 43.6 |
| 2.5°  | 55.3  | 55.7  | 55.3  | 55.3  | 54.8  | 54.4  | 51.2  | 47.6  | 43.6 | 40.4   | 38.2 |
| 5°    | 75.9  | 76.4  | 75.0  | 75.0  | 74.1  | 72.8  | 62.0  | 51.7  | 42.7 | 37.7   | 34.6 |
| 7.5°  | 112.3 | 114.1 | 111.8 | 109.2 | 104.2 | 103.3 | 77.3  | 55.7  | 41.8 | 35.0   | 32.3 |
| 10°   | 169.8 | 168.4 | 166.2 | 160.8 | 152.3 | 148.2 | 98.8  | 59.7  | 40.4 | 33.2   | 31.4 |
| 12.5° | 239.4 | 235.8 | 233.1 | 223.2 | 211.6 | 204.8 | 125.8 | 63.3  | 38.6 | 31.4   | 31.0 |
| 15°   | 302.8 | 300.1 | 293.8 | 284.3 | 270.0 | 264.6 | 155.9 | 65.6  | 36.8 | 30.1   | 31.0 |
| 17.5° | 356.2 | 353.5 | 349.9 | 340.5 | 325.7 | 317.6 | 189.6 | 66.9  | 34.6 | 29.2   | 30.5 |
| 20°   | 399.3 | 397.5 | 392.6 | 385.0 | 370.1 | 362.5 | 216.5 | 66.9  | 32.3 | 28.3   | 30.1 |
| 22.5° | 455.0 | 451.0 | 444.7 | 433.5 | 415.1 | 403.4 | 242.1 | 65.6  | 30.1 | 27.4   | 29.2 |
| 25°   | 506.2 | 503.5 | 495.5 | 482.0 | 462.2 | 450.5 | 263.7 | 62.9  | 27.4 | 26.1   | 28.3 |
| 27.5° | 536.8 | 535.0 | 527.4 | 513.4 | 491.4 | 482.4 | 281.6 | 58.8  | 24.7 | 24.7   | 27.9 |
| 30°   | 560.1 | 556.6 | 548.9 | 535.4 | 513.0 | 502.2 | 298.7 | 53.9  | 22.5 | 23.4   | 27.0 |
| 32.5° | 571.8 | 570.5 | 563.7 | 552.1 | 530.0 | 517.9 | 312.6 | 47.6  | 19.8 | 22.5   | 26.5 |
| 35°   | 578.6 | 577.2 | 571.8 | 560.6 | 539.9 | 528.3 | 318.5 | 41.8  | 18.0 | 21.6   | 26.1 |
| 37.5° | 584.0 | 582.6 | 575.9 | 564.6 | 544.0 | 531.8 | 315.8 | 35.5  | 16.2 | 20.7   | 25.6 |
| 40°   | 590.2 | 585.3 | 575.0 | 563.7 | 544.9 | 533.2 | 309.0 | 29.6  | 14.8 | 20.2   | 25.6 |
| 42.5° | 605.5 | 588.4 | 572.3 | 561.9 | 544.0 | 530.5 | 289.7 | 23.4  | 13.5 | 19.3   | 25.2 |
| 45°   | 617.6 | 587.5 | 566.9 | 558.8 | 540.4 | 525.1 | 264.6 | 17.1  | 13.0 | 18.9   | 25.2 |
| 47.5° | 585.7 | 567.3 | 557.9 | 553.4 | 533.6 | 517.0 | 238.5 | 11.7  | 12.6 | 18.4   | 24.7 |
| 50°   | 536.3 | 534.1 | 530.5 | 530.9 | 513.0 | 499.5 | 200.8 | 8.1   | 11.7 | 18.0   | 24.3 |
| 52.5° | 512.5 | 509.8 | 503.5 | 499.1 | 481.1 | 469.4 | 159.0 | 6.3   | 11.2 | 17.5   | 23.8 |
| 55°   | 446.0 | 447.8 | 441.1 | 443.8 | 438.4 | 432.6 | 100.6 | 5.8   | 10.8 | 16.6   | 23.4 |
| 57.5° | 293.8 | 302.8 | 318.5 | 337.3 | 354.4 | 366.1 | 54.4  | 5.8   | 9.9  | 16.2   | 22.5 |
| 60°   | 261.9 | 259.6 | 259.2 | 262.8 | 270.4 | 276.7 | 18.9  | 5.4   | 9.4  | 14.8   | 21.6 |
| 62.5° | 143.3 | 142.4 | 155.9 | 178.8 | 192.3 | 193.6 | 5.4   | 5.4   | 8.5  | 13.9   | 20.2 |
| 65°   | 34.1  | 35.5  | 39.5  | 49.4  | 58.4  | 64.2  | 4.0   | 4.9   | 7.6  | 13.0   | 18.9 |
| 67.5° | 5.4   | 5.8   | 5.8   | 7.2   | 8.1   | 8.1   | 3.6   | 4.5   | 6.7  | 11.7   | 17.5 |
| 70°   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   | 4.0   | 5.8  | 10.3   | 15.7 |
| 72.5° | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   | 3.1   | 3.6   | 4.9  | 9.0    | 13.5 |
| 75°   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   | 3.1   | 4.0  | 7.2    | 11.7 |
| 77.5° | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 2.2   | 2.7   | 3.6  | 5.8    | 9.4  |
| 80°   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.8   | 2.2   | 2.7  | 4.5    | 7.2  |
| 82.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 1.3   | 1.8   | 2.2  | 3.6    | 5.4  |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4   | 0.9   | 0.9   | 0.9   | 1.3   | 1.3  | 2.2    | 3.6  |
| 87.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.9   | 0.9   | 0.9  | 1.3    | 1.8  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0    | 0.0  |

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**CANDELA DISTRIBUTION (continued):**

|       | 157.5° | 180° |
|-------|--------|------|
| 0°    | 43.6   | 43.6 |
| 2.5°  | 36.8   | 36.4 |
| 5°    | 33.2   | 33.2 |
| 7.5°  | 31.9   | 31.9 |
| 10°   | 31.4   | 31.9 |
| 12.5° | 31.4   | 31.9 |
| 15°   | 31.4   | 31.9 |
| 17.5° | 31.4   | 31.9 |
| 20°   | 31.0   | 31.4 |
| 22.5° | 30.5   | 31.0 |
| 25°   | 30.1   | 31.0 |
| 27.5° | 29.6   | 31.0 |
| 30°   | 29.6   | 31.0 |
| 32.5° | 29.6   | 31.0 |
| 35°   | 29.2   | 31.0 |
| 37.5° | 29.2   | 31.0 |
| 40°   | 29.2   | 31.0 |
| 42.5° | 29.2   | 31.0 |
| 45°   | 29.2   | 31.0 |
| 47.5° | 29.2   | 31.0 |
| 50°   | 29.2   | 31.0 |
| 52.5° | 28.7   | 31.0 |
| 55°   | 28.7   | 30.5 |
| 57.5° | 27.9   | 29.6 |
| 60°   | 27.0   | 28.7 |
| 62.5° | 26.1   | 27.9 |
| 65°   | 24.7   | 26.5 |
| 67.5° | 23.4   | 24.7 |
| 70°   | 21.1   | 22.9 |
| 72.5° | 18.9   | 20.2 |
| 75°   | 16.2   | 17.5 |
| 77.5° | 13.5   | 14.8 |
| 80°   | 10.8   | 11.7 |
| 82.5° | 7.6    | 8.5  |
| 85°   | 4.9    | 5.4  |
| 87.5° | 2.2    | 2.2  |
| 90°   | 0.0    | 0.0  |

(END OF REPORT)