

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: P1313153

Luminaire Tested: LDSQA3D02R209727DE010 3LSQPHR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313153  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R209727DE010 3LSQPHR1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 97CRI , 3LSQPHR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

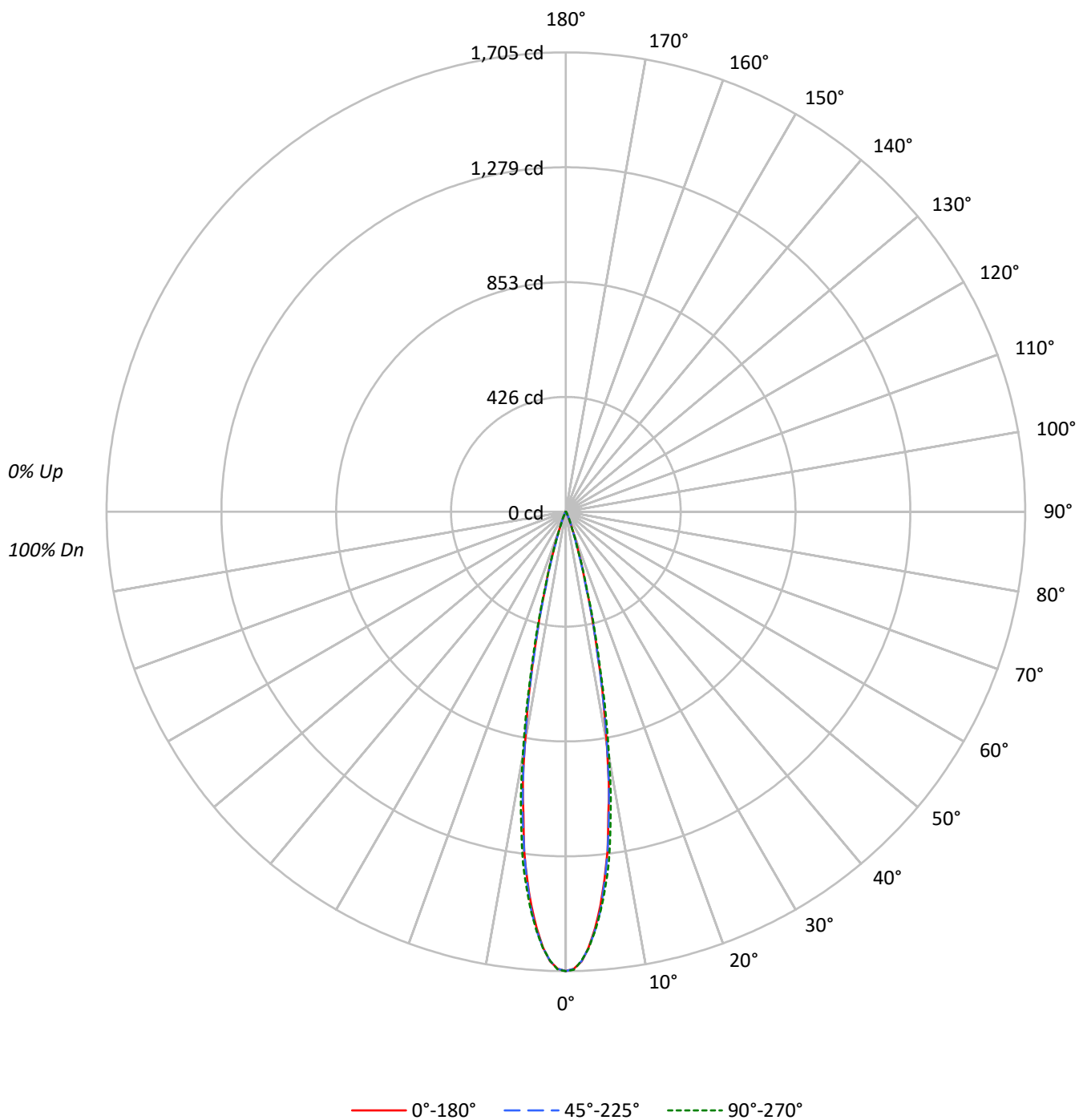
Lumens per Lamp: N/A  
Luminaire Lumens: 229.0 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
Input Voltage (V): NR  
Input Current (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  |     |     |     |     | 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   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 100 | 100 | 100 | 98  |
| 2   | 113 | 109 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 101 | 102 | 101 | 99  | 99  | 98  | 97  | 97  | 97  | 96  |
| 3   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 100 | 102 | 100 | 98  | 100 | 98  | 97  | 98  | 96  | 95  | 95  | 95  | 94  |
| 4   | 107 | 103 | 99  | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  | 98  | 96  | 94  | 96  | 95  | 93  | 93  | 93  | 92  |
| 5   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 94  | 98  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 92  | 92  | 92  | 91  |
| 6   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 91  | 95  | 92  | 90  | 93  | 91  | 90  | 90  | 90  | 89  |
| 7   | 101 | 95  | 92  | 90  | 100 | 95  | 92  | 89  | 94  | 91  | 89  | 93  | 90  | 89  | 92  | 90  | 88  | 88  | 88  | 87  |
| 8   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 89  | 87  | 91  | 89  | 87  | 91  | 88  | 87  | 87  | 87  | 86  |
| 9   | 97  | 92  | 88  | 86  | 96  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 87  | 86  | 89  | 87  | 85  | 85  | 85  | 85  |
| 10  | 95  | 90  | 87  | 85  | 95  | 90  | 87  | 85  | 89  | 86  | 84  | 88  | 86  | 84  | 88  | 86  | 84  | 84  | 84  | 83  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 293640 | 293640 | 293640 |
| 5°  | 253668 | 256036 | 256987 |
| 10° | 152705 | 154139 | 161798 |
| 15° | 52812  | 51582  | 55700  |
| 20° | 13874  | 13049  | 13086  |
| 25° | 3021   | 3649   | 4143   |
| 30° | 1293   | 1293   | 1332   |
| 35° | 736    | 652    | 694    |
| 40° | 315    | 360    | 405    |
| 45° | 97     | 146    | 146    |
| 50° | 54     | 54     | 54     |
| 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: 22.5°

Vertical Angle: 45°

Luminance: 146 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 121.9  | 53.3      |
| 10°-20°   | 92.8   | 40.5      |
| 20°-30°   | 11.5   | 5.0       |
| 30°-40°   | 2.2    | 0.9       |
| 40°-50°   | 0.5    | 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°    | 226.3  | 98.8      |
| 0°-40°    | 228.4  | 99.8      |
| 0°-60°    | 229.0  | 100.0     |
| 0°-90°    | 229.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 229.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1705 | 1705  | 1705 | 1705  | 1705 |      |
| 5°  | 1467 | 1466  | 1481 | 1480  | 1486 | 121  |
| 15° | 296  | 286   | 289  | 307   | 312  | 93   |
| 25° | 16   | 18    | 19   | 20    | 22   | 11   |
| 35° | 4    | 4     | 3    | 3     | 3    | 2    |
| 45° | 0    | 1     | 1    | 1     | 1    | 0    |
| 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°    | 1705.0 | 1705.0 | 1705.0 | 1705.0 | 1705.0 |
| 1°    | 1697.0 | 1695.0 | 1696.6 | 1693.1 | 1700.3 |
| 2°    | 1669.9 | 1667.8 | 1667.8 | 1665.8 | 1666.8 |
| 3°    | 1619.3 | 1622.5 | 1620.5 | 1616.2 | 1621.7 |
| 4°    | 1550.3 | 1554.0 | 1557.3 | 1557.5 | 1558.3 |
| 5°    | 1467.3 | 1466.3 | 1481.0 | 1479.9 | 1486.5 |
| 6°    | 1372.6 | 1371.4 | 1377.7 | 1388.3 | 1401.4 |
| 7°    | 1268.6 | 1253.7 | 1270.6 | 1292.0 | 1309.6 |
| 8°    | 1133.9 | 1137.8 | 1149.4 | 1174.7 | 1188.8 |
| 9°    | 1019.7 | 997.0  | 1021.7 | 1051.9 | 1067.2 |
| 10°   | 873.2  | 854.8  | 881.4  | 913.2  | 925.2  |
| 12.5° | 549.6  | 533.7  | 542.3  | 575.7  | 581.0  |
| 15°   | 296.2  | 285.6  | 289.3  | 306.6  | 312.4  |
| 17.5° | 151.2  | 141.6  | 139.5  | 150.6  | 151.8  |
| 20°   | 75.7   | 73.4   | 71.2   | 72.2   | 71.4   |
| 22.5° | 35.1   | 38.2   | 37.7   | 35.7   | 38.2   |
| 25°   | 15.9   | 18.2   | 19.2   | 20.0   | 21.8   |
| 27.5° | 9.8    | 9.4    | 10.8   | 11.6   | 11.8   |
| 30°   | 6.5    | 6.3    | 6.5    | 6.7    | 6.7    |
| 32.5° | 4.7    | 4.5    | 4.3    | 4.3    | 4.5    |
| 35°   | 3.5    | 3.5    | 3.1    | 3.3    | 3.3    |
| 37.5° | 2.4    | 2.4    | 2.2    | 2.4    | 2.4    |
| 40°   | 1.4    | 1.6    | 1.6    | 1.6    | 1.8    |
| 42.5° | 0.8    | 1.0    | 1.0    | 1.0    | 1.0    |
| 45°   | 0.4    | 0.6    | 0.6    | 0.6    | 0.6    |
| 47.5° | 0.2    | 0.2    | 0.2    | 0.4    | 0.4    |
| 50°   | 0.2    | 0.2    | 0.2    | 0.2    | 0.2    |
| 52.5° | 0.2    | 0.0    | 0.0    | 0.0    | 0.2    |
| 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    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)