

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: P1317595

Luminaire Tested: LDSQA3D17R209827DE010 3LSQPHR1MW

Issue Date: 1/29/2026

**Test Information**

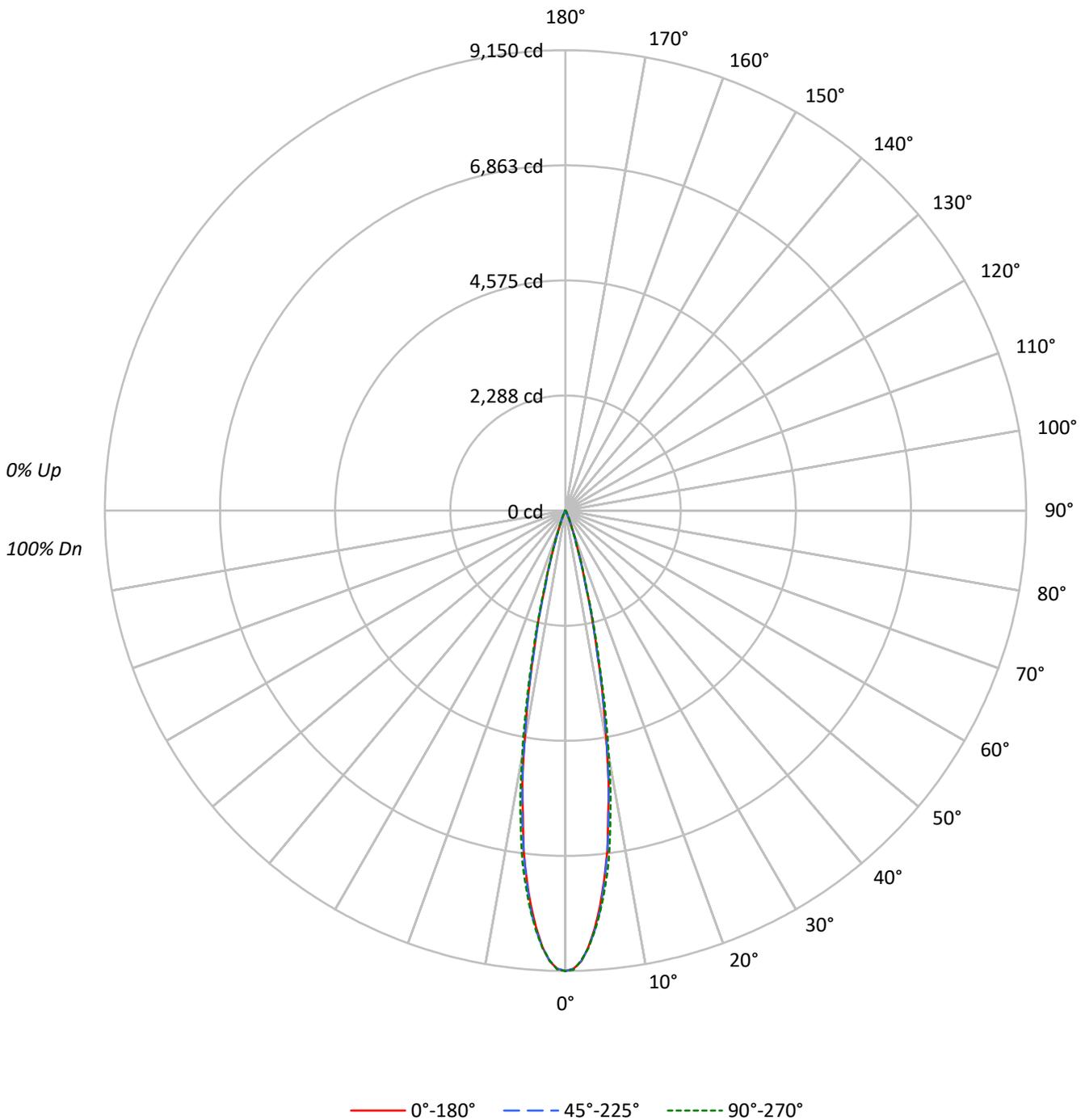
Test Method: LM-79-2019  
Report Number: P1317595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R209827DE010 3LSQPHR1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , 3LSQPHR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1229.0 lumens  
Efficiency: N/A  
Efficacy: 60.2 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): 20.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 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 | 100 | 98  |
| 2   | 113 | 109 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 101 | 102 | 101 | 99  | 99  | 98  | 97  | 97  | 98  | 97  | 96  |
| 3   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 100 | 102 | 100 | 98  | 100 | 98  | 97  | 98  | 96  | 95  | 95  | 98  | 96  | 94  |
| 4   | 107 | 103 | 99  | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  | 98  | 96  | 94  | 96  | 95  | 93  | 93  | 96  | 95  | 92  |
| 5   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 94  | 98  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 92  | 92  | 95  | 93  | 91  |
| 6   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 91  | 95  | 92  | 90  | 93  | 91  | 90  | 90  | 93  | 91  | 89  |
| 7   | 101 | 95  | 92  | 90  | 100 | 95  | 92  | 89  | 94  | 91  | 89  | 93  | 90  | 89  | 92  | 90  | 88  | 88  | 92  | 90  | 87  |
| 8   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 89  | 87  | 91  | 89  | 87  | 91  | 88  | 87  | 87  | 91  | 88  | 86  |
| 9   | 97  | 92  | 88  | 86  | 96  | 91  | 88  | 86  | 91  | 88  | 86  | 90  | 87  | 86  | 89  | 87  | 85  | 85  | 89  | 87  | 85  |
| 10  | 95  | 90  | 87  | 85  | 95  | 90  | 87  | 85  | 89  | 86  | 84  | 88  | 86  | 84  | 88  | 86  | 84  | 84  | 88  | 86  | 83  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1575889 | 1575889 | 1575889 |
| 5°  | 1361382 | 1374054 | 1379172 |
| 10° | 819538  | 827197  | 868364  |
| 15° | 283458  | 276825  | 298881  |
| 20° | 74447   | 70030   | 70231   |
| 25° | 16228   | 19554   | 22271   |
| 30° | 6960    | 6960    | 7179    |
| 35° | 3911    | 3448    | 3679    |
| 40° | 1731    | 1978    | 2226    |
| 45° | 536     | 804     | 804     |
| 50° | 295     | 295     | 295     |
| 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: 804 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 654.5  | 53.3      |
| 10°-20°   | 498.3  | 40.5      |
| 20°-30°   | 61.6   | 5.0       |
| 30°-40°   | 11.7   | 0.9       |
| 40°-50°   | 2.8    | 0.2       |
| 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       |
| 0°-30°    | 1214.4 | 98.8      |
| 0°-40°    | 1226.0 | 99.8      |
| 0°-60°    | 1229.0 | 100.0     |
| 0°-90°    | 1229.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1229.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 9150 | 9150  | 9150 | 9150  | 9150 |      |
| 5°  | 7875 | 7869  | 7948 | 7943  | 7978 | 649  |
| 15° | 1590 | 1533  | 1553 | 1646  | 1676 | 498  |
| 25° | 85   | 97    | 103  | 107   | 117  | 59   |
| 35° | 19   | 19    | 16   | 18    | 18   | 12   |
| 45° | 2    | 3     | 3    | 3     | 3    | 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°    | 9150.3 | 9150.3 | 9150.3 | 9150.3 | 9150.3 |
| 1°    | 9107.6 | 9096.6 | 9105.4 | 9086.8 | 9125.1 |
| 2°    | 8961.9 | 8951.0 | 8951.0 | 8940.0 | 8945.5 |
| 3°    | 8690.4 | 8707.9 | 8697.0 | 8674.0 | 8703.5 |
| 4°    | 8320.3 | 8340.0 | 8357.5 | 8358.6 | 8363.0 |
| 5°    | 7874.7 | 7869.2 | 7948.0 | 7942.6 | 7977.6 |
| 6°    | 7366.6 | 7360.1 | 7394.0 | 7450.9 | 7521.0 |
| 7°    | 6808.2 | 6728.3 | 6819.2 | 6934.1 | 7028.3 |
| 8°    | 6085.6 | 6106.4 | 6168.8 | 6304.6 | 6380.1 |
| 9°    | 5472.4 | 5350.9 | 5483.4 | 5645.4 | 5727.5 |
| 10°   | 4686.3 | 4587.7 | 4730.1 | 4900.9 | 4965.5 |
| 12.5° | 2949.7 | 2864.3 | 2910.3 | 3089.9 | 3118.3 |
| 15°   | 1589.8 | 1532.9 | 1552.6 | 1645.7 | 1676.3 |
| 17.5° | 811.3  | 759.9  | 748.9  | 808.1  | 814.6  |
| 20°   | 406.2  | 394.2  | 382.1  | 387.6  | 383.2  |
| 22.5° | 188.3  | 204.8  | 202.6  | 191.6  | 204.8  |
| 25°   | 85.4   | 97.4   | 102.9  | 107.3  | 117.2  |
| 27.5° | 52.6   | 50.4   | 58.0   | 62.4   | 63.5   |
| 30°   | 35.0   | 33.9   | 35.0   | 36.1   | 36.1   |
| 32.5° | 25.2   | 24.1   | 23.0   | 23.0   | 24.1   |
| 35°   | 18.6   | 18.6   | 16.4   | 17.5   | 17.5   |
| 37.5° | 13.1   | 13.1   | 12.0   | 13.1   | 13.1   |
| 40°   | 7.7    | 8.8    | 8.8    | 8.8    | 9.9    |
| 42.5° | 4.4    | 5.5    | 5.5    | 5.5    | 5.5    |
| 45°   | 2.2    | 3.3    | 3.3    | 3.3    | 3.3    |
| 47.5° | 1.1    | 1.1    | 1.1    | 2.2    | 2.2    |
| 50°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 52.5° | 1.1    | 0.0    | 0.0    | 0.0    | 1.1    |
| 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)