

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: P1314920

Luminaire Tested: LDSQA3D20R209730D010 3LSQPHR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314920  
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: LDSQA3D20R209730D010 3LSQPHR1MMS  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 97CRI , 3LSQPHR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

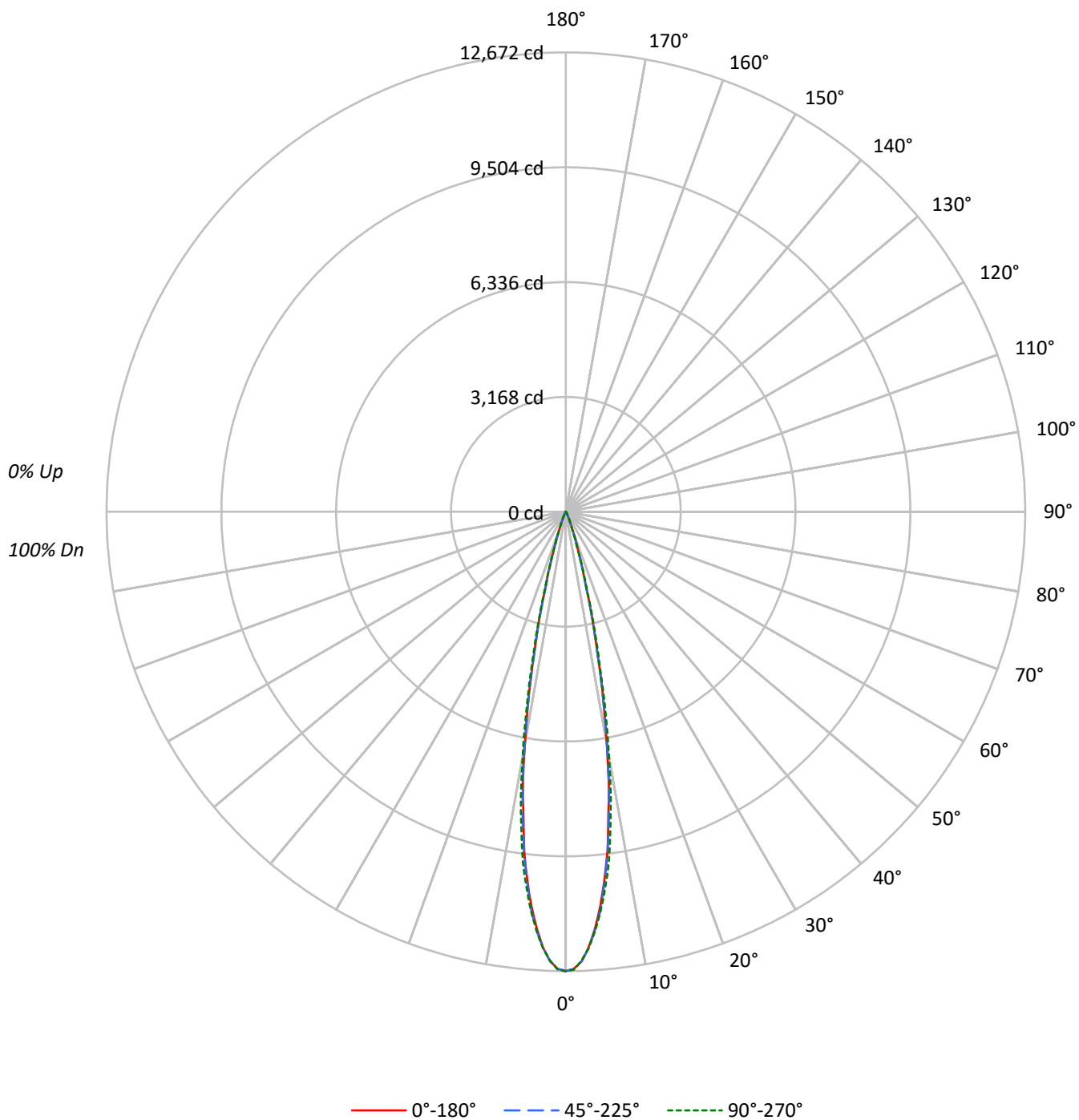
Lumens per Lamp: N/A  
Luminaire Lumens: 1702.0 lumens  
Efficiency: N/A  
Efficacy: 59.1 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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  | 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°  | 2182388 | 2182388 | 2182388 |
| 5°  | 1885331 | 1902896 | 1909967 |
| 10° | 1134950 | 1145548 | 1202559 |
| 15° | 392559  | 383359  | 413919  |
| 20° | 103111  | 96989   | 97264   |
| 25° | 22480   | 27079   | 30822   |
| 30° | 9645    | 9645    | 9943    |
| 35° | 5424    | 4773    | 5109    |
| 40° | 2383    | 2720    | 3058    |
| 45° | 731     | 1096    | 1096    |
| 50° | 402     | 402     | 402     |
| 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: 1096 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 906.3  | 53.3      |
| 10°-20°   | 690.1  | 40.5      |
| 20°-30°   | 85.3   | 5.0       |
| 30°-40°   | 16.1   | 0.9       |
| 40°-50°   | 3.9    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 1681.7 | 98.8      |
| 0°-40°    | 1697.9 | 99.8      |
| 0°-60°    | 1702.0 | 100.0     |
| 0°-90°    | 1702.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1702.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 12672 | 12672 | 12672 | 12672 | 12672 |      |
| 5°  | 10905 | 10898 | 11007 | 10999 | 11048 | 899  |
| 15° | 2202  | 2123  | 2150  | 2279  | 2322  | 689  |
| 25° | 118   | 135   | 142   | 149   | 162   | 81   |
| 35° | 26    | 26    | 23    | 24    | 24    | 17   |
| 45° | 3     | 4     | 4     | 4     | 4     | 3    |
| 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°    | 12671.9 | 12671.9 | 12671.9 | 12671.9 | 12671.9 |
| 1°    | 12612.8 | 12597.6 | 12609.7 | 12583.9 | 12637.0 |
| 2°    | 12411.1 | 12395.9 | 12395.9 | 12380.8 | 12388.3 |
| 3°    | 12035.0 | 12059.3 | 12044.1 | 12012.3 | 12053.2 |
| 4°    | 11522.5 | 11549.8 | 11574.1 | 11575.6 | 11581.7 |
| 5°    | 10905.4 | 10897.8 | 11007.0 | 10999.4 | 11047.9 |
| 6°    | 10201.8 | 10192.7 | 10239.7 | 10318.6 | 10415.6 |
| 7°    | 9428.5  | 9317.8  | 9443.6  | 9602.9  | 9733.3  |
| 8°    | 8427.7  | 8456.5  | 8542.9  | 8731.0  | 8835.6  |
| 9°    | 7578.6  | 7410.3  | 7593.7  | 7818.1  | 7931.9  |
| 10°   | 6489.9  | 6353.4  | 6550.5  | 6787.0  | 6876.5  |
| 12.5° | 4085.0  | 3966.7  | 4030.4  | 4279.1  | 4318.5  |
| 15°   | 2201.7  | 2122.8  | 2150.1  | 2279.0  | 2321.5  |
| 17.5° | 1123.6  | 1052.3  | 1037.2  | 1119.0  | 1128.1  |
| 20°   | 562.6   | 545.9   | 529.2   | 536.8   | 530.7   |
| 22.5° | 260.8   | 283.6   | 280.5   | 265.4   | 283.6   |
| 25°   | 118.3   | 135.0   | 142.5   | 148.6   | 162.2   |
| 27.5° | 72.8    | 69.8    | 80.4    | 86.4    | 87.9    |
| 30°   | 48.5    | 47.0    | 48.5    | 50.0    | 50.0    |
| 32.5° | 34.9    | 33.4    | 31.8    | 31.8    | 33.4    |
| 35°   | 25.8    | 25.8    | 22.7    | 24.3    | 24.3    |
| 37.5° | 18.2    | 18.2    | 16.7    | 18.2    | 18.2    |
| 40°   | 10.6    | 12.1    | 12.1    | 12.1    | 13.6    |
| 42.5° | 6.1     | 7.6     | 7.6     | 7.6     | 7.6     |
| 45°   | 3.0     | 4.5     | 4.5     | 4.5     | 4.5     |
| 47.5° | 1.5     | 1.5     | 1.5     | 3.0     | 3.0     |
| 50°   | 1.5     | 1.5     | 1.5     | 1.5     | 1.5     |
| 52.5° | 1.5     | 0.0     | 0.0     | 0.0     | 1.5     |
| 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)