

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: P1319199

Luminaire Tested: LDSQA3D13R209835DE010 3LSQPHR1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319199  
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: LDSQA3D13R209835DE010 3LSQPHR1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , 3LSQPHR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

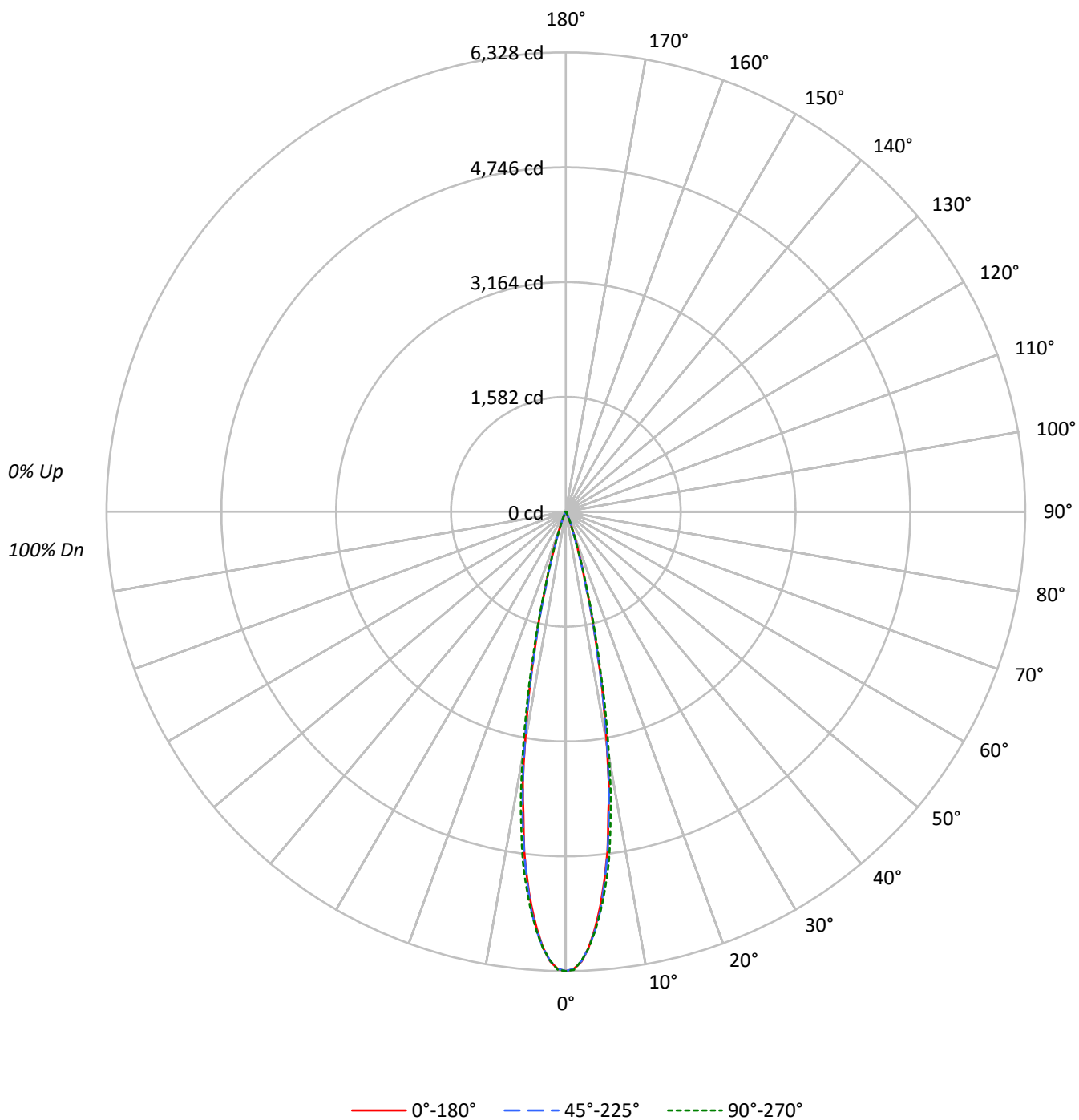
Lumens per Lamp: N/A  
Luminaire Lumens: 850.0 lumens  
Efficiency: N/A  
Efficacy: 58.6 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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°  | 1089911 | 1089911 | 1089911 |
| 5°  | 941559  | 950324  | 953868  |
| 10° | 566802  | 572101  | 600571  |
| 15° | 196056  | 191456  | 206719  |
| 20° | 51482   | 48440   | 48568   |
| 25° | 11231   | 13530   | 15392   |
| 30° | 4813    | 4813    | 4972    |
| 35° | 2712    | 2397    | 2544    |
| 40° | 1192    | 1371    | 1529    |
| 45° | 365     | 560     | 560     |
| 50° | 214     | 214     | 214     |
| 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: 560 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 452.6  | 53.2      |
| 10°-20°   | 344.6  | 40.5      |
| 20°-30°   | 42.6   | 5.0       |
| 30°-40°   | 8.1    | 0.9       |
| 40°-50°   | 2.0    | 0.2       |
| 50°-60°   | 0.1    | 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°    | 839.9  | 98.8      |
| 0°-40°    | 847.9  | 99.8      |
| 0°-60°    | 850.0  | 100.0     |
| 0°-90°    | 850.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 850.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6328 | 6328  | 6328 | 6328  | 6328 |      |
| 5°  | 5446 | 5442  | 5497 | 5493  | 5518 | 449  |
| 15° | 1100 | 1060  | 1074 | 1138  | 1159 | 344  |
| 25° | 59   | 67    | 71   | 74    | 81   | 41   |
| 35° | 13   | 13    | 11   | 12    | 12   | 8    |
| 45° | 2    | 2     | 2    | 2     | 2    | 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    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 6328.5 | 6328.5 | 6328.5 | 6328.5 | 6328.5 |
| 1°    | 6299.0 | 6291.4 | 6297.5 | 6284.6 | 6311.1 |
| 2°    | 6198.2 | 6190.7 | 6190.7 | 6183.1 | 6186.9 |
| 3°    | 6010.4 | 6022.6 | 6015.0 | 5999.1 | 6019.5 |
| 4°    | 5754.5 | 5768.1 | 5780.2 | 5781.0 | 5784.0 |
| 5°    | 5446.3 | 5442.5 | 5497.0 | 5493.2 | 5517.5 |
| 6°    | 5094.9 | 5090.4 | 5113.8 | 5153.2 | 5201.7 |
| 7°    | 4708.7 | 4653.4 | 4716.3 | 4795.8 | 4860.9 |
| 8°    | 4208.9 | 4223.3 | 4266.5 | 4360.4 | 4412.6 |
| 9°    | 3784.8 | 3700.8 | 3792.4 | 3904.5 | 3961.3 |
| 10°   | 3241.1 | 3173.0 | 3271.4 | 3389.5 | 3434.2 |
| 12.5° | 2040.1 | 1981.0 | 2012.8 | 2137.0 | 2156.7 |
| 15°   | 1099.6 | 1060.2 | 1073.8 | 1138.2 | 1159.4 |
| 17.5° | 561.1  | 525.5  | 518.0  | 558.9  | 563.4  |
| 20°   | 280.9  | 272.6  | 264.3  | 268.1  | 265.0  |
| 22.5° | 130.3  | 141.6  | 140.1  | 132.5  | 141.6  |
| 25°   | 59.1   | 67.4   | 71.2   | 74.2   | 81.0   |
| 27.5° | 36.3   | 34.8   | 40.1   | 43.2   | 43.9   |
| 30°   | 24.2   | 23.5   | 24.2   | 25.0   | 25.0   |
| 32.5° | 17.4   | 16.7   | 15.9   | 15.9   | 16.7   |
| 35°   | 12.9   | 12.9   | 11.4   | 12.1   | 12.1   |
| 37.5° | 9.1    | 9.1    | 8.3    | 9.1    | 9.1    |
| 40°   | 5.3    | 6.1    | 6.1    | 6.1    | 6.8    |
| 42.5° | 3.0    | 3.8    | 3.8    | 3.8    | 3.8    |
| 45°   | 1.5    | 2.3    | 2.3    | 2.3    | 2.3    |
| 47.5° | 0.8    | 0.8    | 0.8    | 1.5    | 1.5    |
| 50°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 52.5° | 0.8    | 0.0    | 0.0    | 0.0    | 0.8    |
| 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)