

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: P1309516

Luminaire Tested: LDSQA3D20R209030D010 3LSQPHR1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1309516  
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: LDSQA3D20R209030D010 3LSQPHR1MB  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , 3LSQPHR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

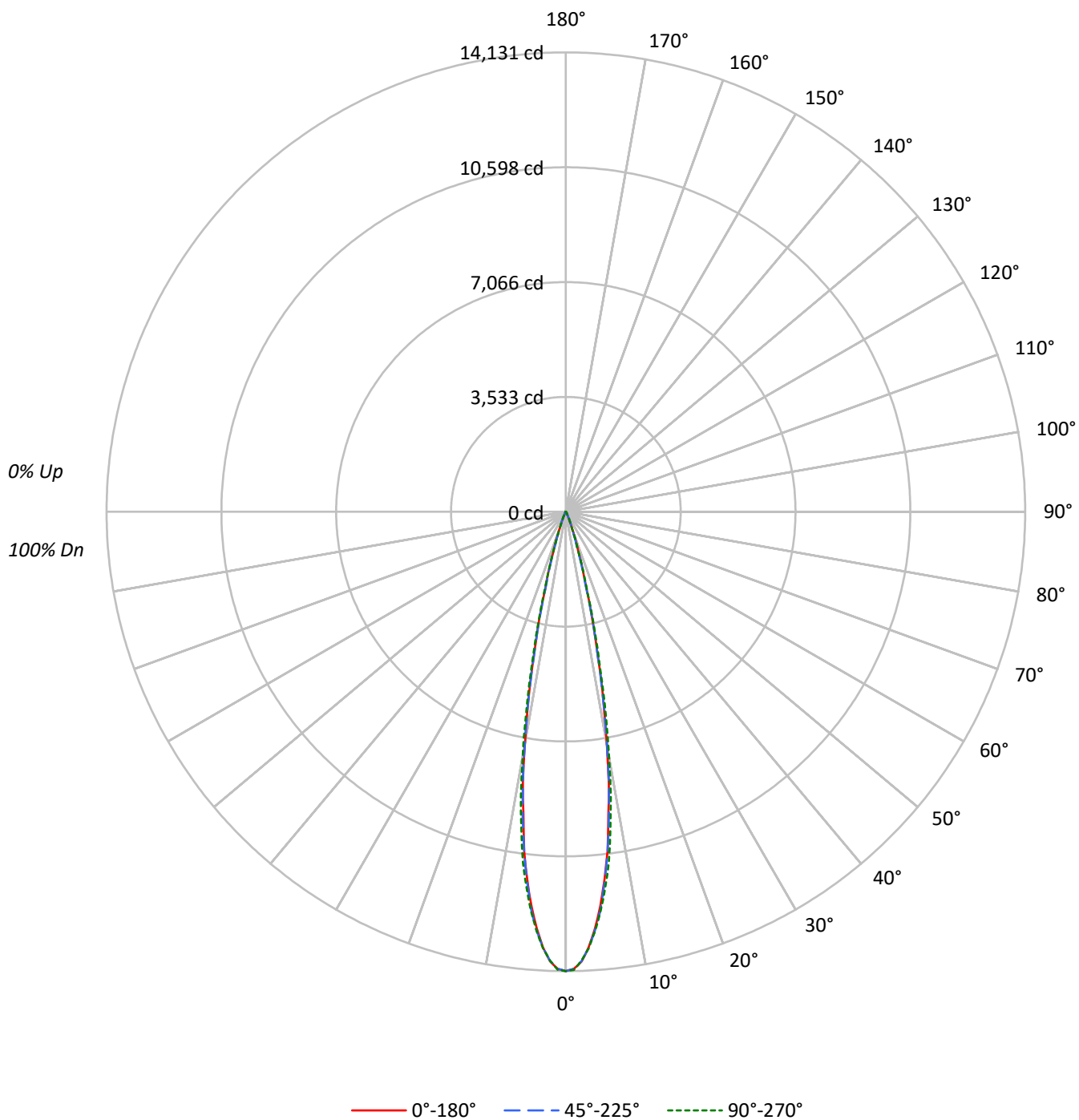
Lumens per Lamp: N/A  
Luminaire Lumens: 1898.0 lumens  
Efficiency: N/A  
Efficacy: 65.9 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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°  | 2433713 | 2433713 | 2433713 |
| 5°  | 2102434 | 2122022 | 2129922 |
| 10° | 1265638 | 1277477 | 1341046 |
| 15° | 437757  | 427505  | 461578  |
| 20° | 114969  | 108151  | 108462  |
| 25° | 25065   | 30195   | 34376   |
| 30° | 10759   | 10759   | 11097   |
| 35° | 6034    | 5340    | 5698    |
| 40° | 2653    | 3035    | 3417    |
| 45° | 828     | 1242    | 1242    |
| 50° | 455     | 455     | 455     |
| 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: 1242 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1010.7 | 53.3      |
| 10°-20°   | 769.5  | 40.5      |
| 20°-30°   | 95.2   | 5.0       |
| 30°-40°   | 18.0   | 0.9       |
| 40°-50°   | 4.3    | 0.2       |
| 50°-60°   | 0.3    | 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°    | 1875.4 | 98.8      |
| 0°-40°    | 1893.4 | 99.8      |
| 0°-60°    | 1898.0 | 100.0     |
| 0°-90°    | 1898.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1898.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 22.5° | 45°   | 67.5° | 90°   | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 14131 | 14131 | 14131 | 14131 | 14131 |      |
| 5°  | 12161 | 12153 | 12274 | 12266 | 12320 | 1003 |
| 15° | 2455  | 2367  | 2398  | 2542  | 2589  | 769  |
| 25° | 132   | 150   | 159   | 166   | 181   | 91   |
| 35° | 29    | 29    | 25    | 27    | 27    | 18   |
| 45° | 3     | 5     | 5     | 5     | 5     | 4    |
| 55° | 0     | 0     | 0     | 0     | 0     | 1    |
| 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°    | 14131.2 | 14131.2 | 14131.2 | 14131.2 | 14131.2 |
| 1°    | 14065.2 | 14048.3 | 14061.8 | 14033.1 | 14092.3 |
| 2°    | 13840.3 | 13823.4 | 13823.4 | 13806.5 | 13815.0 |
| 3°    | 13421.0 | 13448.0 | 13431.1 | 13395.6 | 13441.3 |
| 4°    | 12849.4 | 12879.9 | 12906.9 | 12908.6 | 12915.4 |
| 5°    | 12161.2 | 12152.8 | 12274.5 | 12266.1 | 12320.2 |
| 6°    | 11376.6 | 11366.5 | 11418.9 | 11506.8 | 11615.1 |
| 7°    | 10514.3 | 10390.8 | 10531.2 | 10708.7 | 10854.1 |
| 8°    | 9398.2  | 9430.4  | 9526.7  | 9736.4  | 9853.1  |
| 9°    | 8451.3  | 8263.6  | 8468.2  | 8718.5  | 8845.3  |
| 10°   | 7237.2  | 7085.0  | 7304.9  | 7568.6  | 7668.4  |
| 12.5° | 4555.4  | 4423.5  | 4494.5  | 4771.8  | 4815.8  |
| 15°   | 2455.2  | 2367.3  | 2397.7  | 2541.5  | 2588.8  |
| 17.5° | 1253.0  | 1173.5  | 1156.6  | 1247.9  | 1258.1  |
| 20°   | 627.3   | 608.7   | 590.1   | 598.6   | 591.8   |
| 22.5° | 290.8   | 316.2   | 312.8   | 295.9   | 316.2   |
| 25°   | 131.9   | 150.5   | 158.9   | 165.7   | 180.9   |
| 27.5° | 81.2    | 77.8    | 89.6    | 96.4    | 98.1    |
| 30°   | 54.1    | 52.4    | 54.1    | 55.8    | 55.8    |
| 32.5° | 38.9    | 37.2    | 35.5    | 35.5    | 37.2    |
| 35°   | 28.7    | 28.7    | 25.4    | 27.1    | 27.1    |
| 37.5° | 20.3    | 20.3    | 18.6    | 20.3    | 20.3    |
| 40°   | 11.8    | 13.5    | 13.5    | 13.5    | 15.2    |
| 42.5° | 6.8     | 8.5     | 8.5     | 8.5     | 8.5     |
| 45°   | 3.4     | 5.1     | 5.1     | 5.1     | 5.1     |
| 47.5° | 1.7     | 1.7     | 1.7     | 3.4     | 3.4     |
| 50°   | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     |
| 52.5° | 1.7     | 0.0     | 0.0     | 0.0     | 1.7     |
| 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)