

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: P1327659

Luminaire Tested: LDSQA3D13R20W2N902765DE010 3LSQPHR1MW\_3500K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327659  
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: LDSQA3D13R20W2N902765DE010 3LSQPHR1MW\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 3500K CCT AND, 90CRI ,  
3LSQPHR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

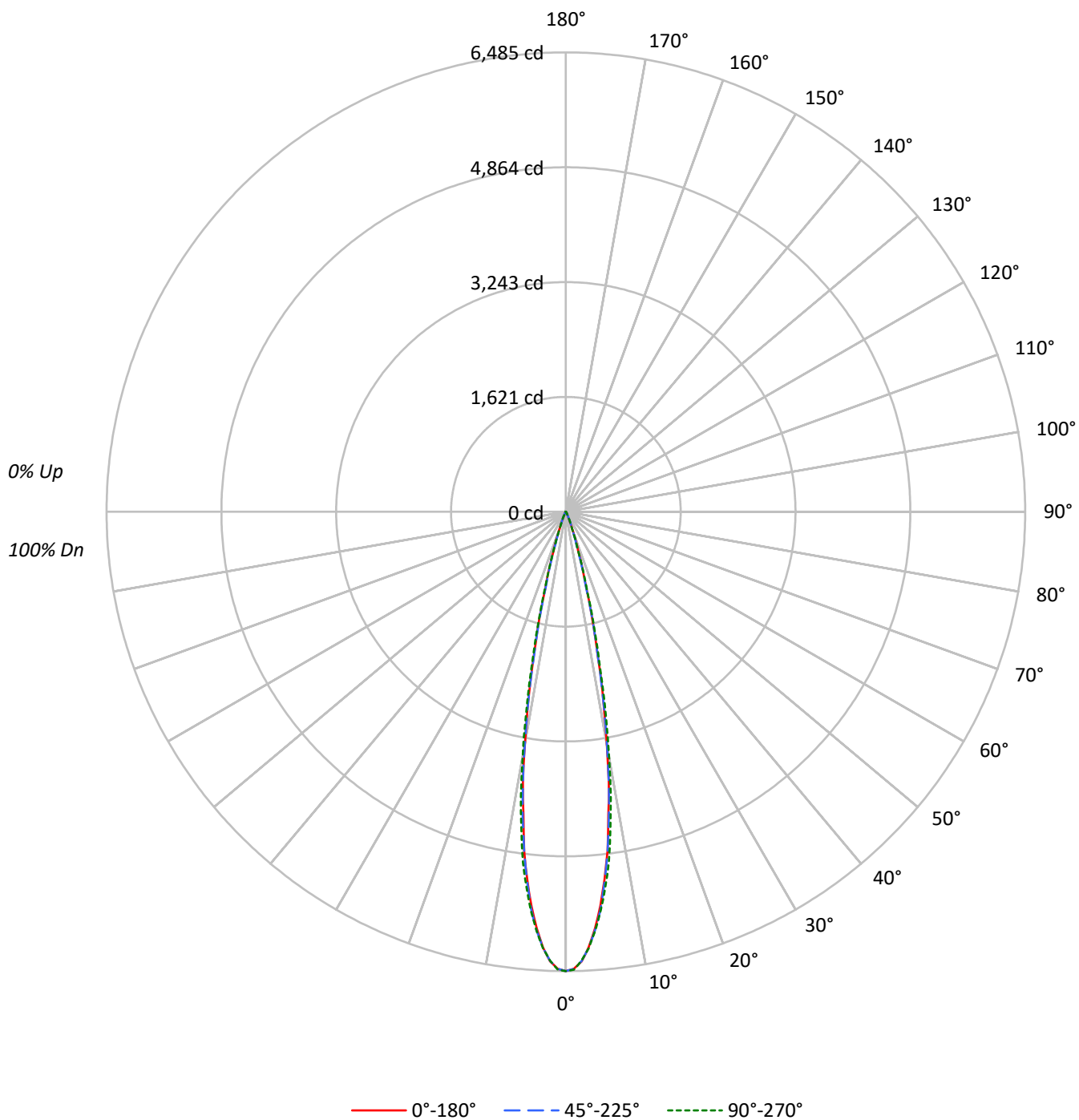
Lumens per Lamp: N/A  
Luminaire Lumens: 871.0 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.3  
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°  | 1116847 | 1116847 | 1116847 |
| 5°  | 964812  | 973801  | 977432  |
| 10° | 580810  | 586231  | 615418  |
| 15° | 200888  | 196181  | 211818  |
| 20° | 52765   | 49631   | 49778   |
| 25° | 11497   | 13853   | 15772   |
| 30° | 4932    | 4932    | 5091    |
| 35° | 2775    | 2439    | 2607    |
| 40° | 1214    | 1394    | 1574    |
| 45° | 390     | 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°    | 463.8  | 53.3      |
| 10°-20°   | 353.1  | 40.5      |
| 20°-30°   | 43.7   | 5.0       |
| 30°-40°   | 8.3    | 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       |
| <hr/>     |        |           |
| 0°-30°    | 860.6  | 98.8      |
| 0°-40°    | 868.9  | 99.8      |
| 0°-60°    | 871.0  | 100.0     |
| 0°-90°    | 871.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 871.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 6485 | 6485  | 6485 | 6485  | 6485 |      |
| 5°  | 5581 | 5577  | 5633 | 5629  | 5654 | 460  |
| 15° | 1127 | 1086  | 1100 | 1166  | 1188 | 353  |
| 25° | 60   | 69    | 73   | 76    | 83   | 42   |
| 35° | 13   | 13    | 12   | 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    | 0    |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 6484.9 | 6484.9 | 6484.9 | 6484.9 | 6484.9 |
| 1°    | 6454.6 | 6446.8 | 6453.0 | 6439.8 | 6467.0 |
| 2°    | 6351.4 | 6343.6 | 6343.6 | 6335.9 | 6339.7 |
| 3°    | 6158.9 | 6171.4 | 6163.6 | 6147.3 | 6168.3 |
| 4°    | 5896.7 | 5910.6 | 5923.0 | 5923.8 | 5926.9 |
| 5°    | 5580.8 | 5577.0 | 5632.8 | 5628.9 | 5653.8 |
| 6°    | 5220.8 | 5216.1 | 5240.2 | 5280.5 | 5330.2 |
| 7°    | 4825.0 | 4768.4 | 4832.8 | 4914.3 | 4981.0 |
| 8°    | 4312.9 | 4327.6 | 4371.9 | 4468.1 | 4521.6 |
| 9°    | 3878.3 | 3792.2 | 3886.1 | 4000.9 | 4059.1 |
| 10°   | 3321.2 | 3251.3 | 3352.2 | 3473.3 | 3519.1 |
| 12.5° | 2090.5 | 2030.0 | 2062.6 | 2189.8 | 2210.0 |
| 15°   | 1126.7 | 1086.4 | 1100.3 | 1166.3 | 1188.0 |
| 17.5° | 575.0  | 538.5  | 530.8  | 572.7  | 577.3  |
| 20°   | 287.9  | 279.4  | 270.8  | 274.7  | 271.6  |
| 22.5° | 133.5  | 145.1  | 143.6  | 135.8  | 145.1  |
| 25°   | 60.5   | 69.1   | 72.9   | 76.0   | 83.0   |
| 27.5° | 37.2   | 35.7   | 41.1   | 44.2   | 45.0   |
| 30°   | 24.8   | 24.1   | 24.8   | 25.6   | 25.6   |
| 32.5° | 17.8   | 17.1   | 16.3   | 16.3   | 17.1   |
| 35°   | 13.2   | 13.2   | 11.6   | 12.4   | 12.4   |
| 37.5° | 9.3    | 9.3    | 8.5    | 9.3    | 9.3    |
| 40°   | 5.4    | 6.2    | 6.2    | 6.2    | 7.0    |
| 42.5° | 3.1    | 3.9    | 3.9    | 3.9    | 3.9    |
| 45°   | 1.6    | 2.3    | 2.3    | 2.3    | 2.3    |
| 47.5° | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    |
| 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)