

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: P1327602

Luminaire Tested: LDSQA3D13R20W2N902750DE010 3LSQPHRLP1MW\_5000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1327602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R20W2N902750DE010 3LSQPHRLP1MW\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 90CRI ,  
3LSQPHRLP1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

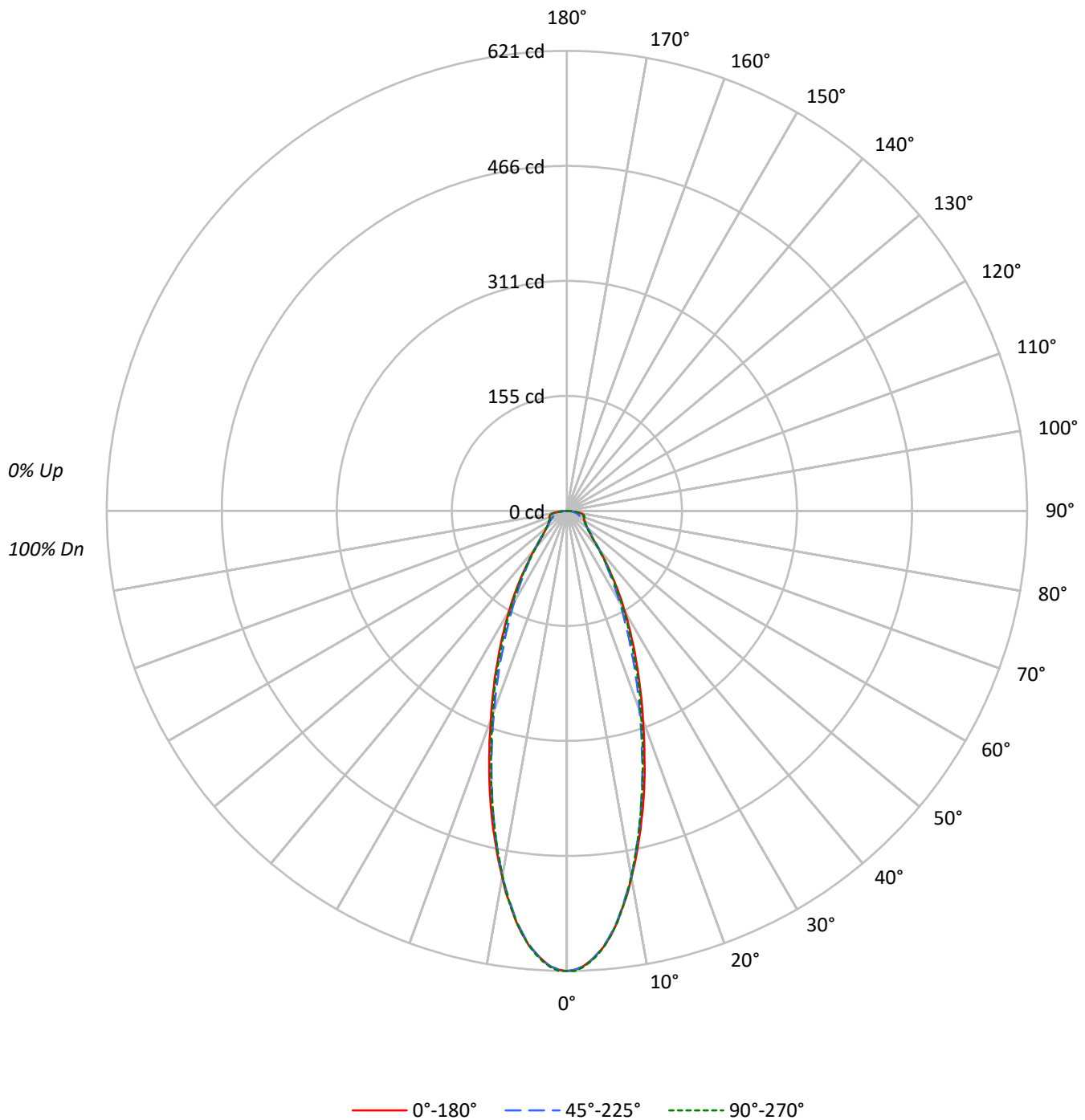
Lumens per Lamp: N/A  
Luminaire Lumens: 438.0 lumens  
Efficiency: N/A  
Efficacy: 35.6 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.6 / 0.65  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99  | 96  |  | 97  | 95  | 94  |  | 94  |
| 2   | 104 | 98  | 93  | 88  | 102 | 96  | 91  | 87  | 93  | 89  | 85  |  | 90  | 86  | 83  |  | 87  |
| 3   | 98  | 90  | 84  | 79  | 96  | 88  | 83  | 78  | 85  | 81  | 77  |  | 83  | 79  | 75  |  | 81  |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 75  | 71  | 79  | 74  | 70  |  | 77  | 73  | 69  |  | 75  |
| 5   | 87  | 77  | 70  | 65  | 85  | 76  | 70  | 65  | 74  | 68  | 64  |  | 72  | 67  | 64  |  | 71  |
| 6   | 82  | 72  | 65  | 60  | 81  | 71  | 65  | 60  | 69  | 64  | 59  |  | 68  | 63  | 59  |  | 67  |
| 7   | 78  | 67  | 61  | 56  | 77  | 67  | 60  | 56  | 65  | 60  | 55  |  | 64  | 59  | 55  |  | 63  |
| 8   | 74  | 63  | 57  | 52  | 73  | 63  | 57  | 52  | 62  | 56  | 52  |  | 61  | 55  | 52  |  | 60  |
| 9   | 71  | 60  | 53  | 49  | 69  | 59  | 53  | 49  | 58  | 53  | 49  |  | 58  | 52  | 49  |  | 57  |
| 10  | 67  | 57  | 50  | 46  | 66  | 56  | 50  | 46  | 55  | 50  | 46  |  | 55  | 50  | 46  |  | 54  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 106967 | 106967 | 106967 |
| 5°  | 101775 | 101515 | 101775 |
| 10° | 87859  | 87597  | 87457  |
| 15° | 71301  | 69661  | 69928  |
| 20° | 54946  | 52545  | 53516  |
| 25° | 41730  | 38651  | 40552  |
| 30° | 30963  | 28199  | 30029  |
| 35° | 21865  | 20415  | 21550  |
| 40° | 15063  | 15063  | 14726  |
| 45° | 11082  | 11642  | 11082  |
| 50° | 9699   | 9699   | 9699   |
| 55° | 9248   | 9038   | 9248   |
| 60° | 9541   | 8749   | 9541   |
| 65° | 10351  | 8802   | 10351  |
| 70° | 12438  | 8913   | 12438  |
| 75° | 15903  | 9715   | 15903  |
| 80° | 19836  | 9918   | 19142  |
| 85° | 15215  | 9090   | 16796  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 80°

Luminance: 19836 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.3   | 12.2      |
| 10°-20°   | 108.8  | 24.8      |
| 20°-30°   | 97.1   | 22.2      |
| 30°-40°   | 63.7   | 14.6      |
| 40°-50°   | 37.1   | 8.5       |
| 50°-60°   | 27.5   | 6.3       |
| 60°-70°   | 23.2   | 5.3       |
| 70°-80°   | 19.2   | 4.4       |
| 80°-90°   | 8.0    | 1.8       |
| 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°    | 259.2  | 59.2      |
| 0°-40°    | 323.0  | 73.7      |
| 0°-60°    | 387.5  | 88.5      |
| 0°-90°    | 438.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 438.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 621 | 621   | 621 | 621   | 621 |      |
| 5°  | 589 | 588   | 587 | 588   | 589 | 53   |
| 15° | 400 | 396   | 391 | 392   | 392 | 111  |
| 25° | 220 | 213   | 203 | 209   | 213 | 101  |
| 35° | 104 | 101   | 97  | 100   | 102 | 66   |
| 45° | 46  | 46    | 48  | 46    | 46  | 37   |
| 55° | 31  | 30    | 30  | 30    | 31  | 28   |
| 65° | 25  | 23    | 22  | 23    | 25  | 25   |
| 75° | 24  | 18    | 15  | 18    | 24  | 24   |
| 85° | 8   | 8     | 5   | 8     | 8   | 9    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 621.1 | 621.1 | 621.1 | 621.1 | 621.1 |
| 1°    | 619.5 | 620.3 | 619.5 | 620.3 | 621.1 |
| 2°    | 615.7 | 616.5 | 615.7 | 615.7 | 616.5 |
| 3°    | 608.0 | 608.8 | 608.8 | 608.8 | 609.5 |
| 4°    | 598.7 | 599.5 | 598.7 | 599.5 | 600.3 |
| 5°    | 588.7 | 587.9 | 587.2 | 587.9 | 588.7 |
| 6°    | 574.8 | 574.1 | 573.3 | 574.1 | 574.8 |
| 7°    | 559.4 | 558.7 | 557.9 | 557.9 | 558.7 |
| 8°    | 540.2 | 540.9 | 538.6 | 540.2 | 540.9 |
| 9°    | 523.2 | 521.7 | 520.1 | 520.1 | 521.7 |
| 10°   | 502.4 | 500.9 | 500.9 | 500.1 | 500.1 |
| 12.5° | 451.6 | 448.5 | 446.2 | 446.2 | 446.9 |
| 15°   | 399.9 | 396.1 | 390.7 | 391.5 | 392.2 |
| 17.5° | 348.3 | 343.7 | 336.7 | 338.3 | 339.8 |
| 20°   | 299.8 | 295.1 | 286.7 | 289.7 | 292.0 |
| 22.5° | 258.1 | 251.2 | 243.5 | 245.8 | 253.5 |
| 25°   | 219.6 | 213.4 | 203.4 | 208.8 | 213.4 |
| 27.5° | 185.7 | 178.8 | 170.3 | 175.7 | 180.3 |
| 30°   | 155.7 | 149.5 | 141.8 | 146.4 | 151.0 |
| 32.5° | 128.7 | 123.3 | 117.9 | 121.0 | 124.8 |
| 35°   | 104.0 | 100.9 | 97.1  | 100.2 | 102.5 |
| 37.5° | 84.0  | 82.5  | 80.9  | 82.5  | 81.7  |
| 40°   | 67.0  | 67.8  | 67.0  | 67.0  | 65.5  |
| 42.5° | 53.2  | 55.5  | 56.3  | 54.7  | 53.2  |
| 45°   | 45.5  | 46.2  | 47.8  | 46.2  | 45.5  |
| 47.5° | 40.1  | 40.1  | 40.8  | 40.1  | 39.3  |
| 50°   | 36.2  | 36.2  | 36.2  | 36.2  | 36.2  |
| 52.5° | 33.1  | 33.1  | 32.4  | 33.1  | 33.1  |
| 55°   | 30.8  | 30.1  | 30.1  | 30.1  | 30.8  |
| 57.5° | 29.3  | 28.5  | 27.7  | 28.5  | 29.3  |
| 60°   | 27.7  | 26.2  | 25.4  | 26.2  | 27.7  |
| 62.5° | 26.2  | 24.7  | 23.9  | 24.7  | 26.2  |
| 65°   | 25.4  | 23.1  | 21.6  | 23.1  | 25.4  |
| 67.5° | 24.7  | 21.6  | 20.0  | 21.6  | 25.4  |
| 70°   | 24.7  | 20.0  | 17.7  | 20.8  | 24.7  |
| 72.5° | 23.9  | 19.3  | 16.2  | 19.3  | 23.9  |
| 75°   | 23.9  | 17.7  | 14.6  | 17.7  | 23.9  |
| 77.5° | 22.3  | 16.2  | 12.3  | 16.2  | 22.3  |
| 80°   | 20.0  | 14.6  | 10.0  | 14.6  | 19.3  |
| 82.5° | 14.6  | 12.3  | 7.7   | 12.3  | 14.6  |
| 85°   | 7.7   | 8.5   | 4.6   | 8.5   | 8.5   |
| 87.5° | 0.8   | 3.1   | 1.5   | 4.6   | 3.9   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)