

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: P1324354

Luminaire Tested: LDSQA3D05R20W2N902750DE010 3LSQPHR1MB\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1324354  
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: LDSQA3D05R20W2N902750DE010 3LSQPHR1MB\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 90CRI ,  
3LSQPHR1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

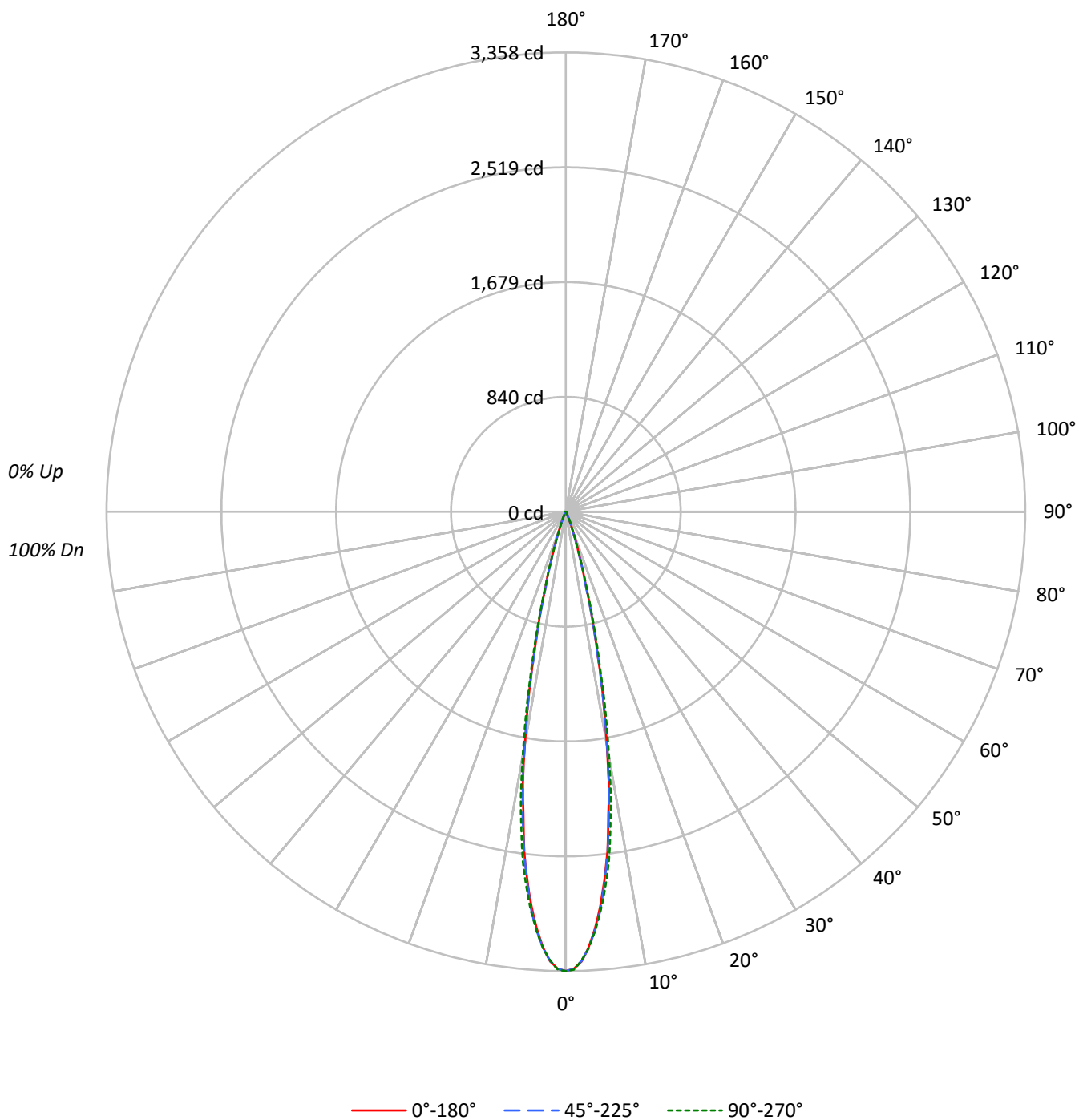
Lumens per Lamp: N/A  
Luminaire Lumens: 451.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.9  
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°  | 578289 | 578289 | 578289 |
| 5°  | 499573 | 504241 | 506108 |
| 10° | 300740 | 303556 | 318665 |
| 15° | 104019 | 101576 | 109689 |
| 20° | 27326  | 25695  | 25769  |
| 25° | 5948   | 7183   | 8171   |
| 30° | 2565   | 2565   | 2645   |
| 35° | 1430   | 1261   | 1346   |
| 40° | 629    | 719    | 809    |
| 45° | 195    | 292    | 292    |
| 50° | 107    | 107    | 107    |
| 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: 292 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 240.2  | 53.3      |
| 10°-20°   | 182.8  | 40.5      |
| 20°-30°   | 22.6   | 5.0       |
| 30°-40°   | 4.3    | 0.9       |
| 40°-50°   | 1.0    | 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°    | 445.6  | 98.8      |
| 0°-40°    | 449.9  | 99.8      |
| 0°-60°    | 451.0  | 100.0     |
| 0°-90°    | 451.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 451.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3358 | 3358  | 3358 | 3358  | 3358 |      |
| 5°  | 2890 | 2888  | 2917 | 2915  | 2928 | 238  |
| 15° | 583  | 562   | 570  | 604   | 615  | 183  |
| 25° | 31   | 36    | 38   | 39    | 43   | 22   |
| 35° | 7    | 7     | 6    | 6     | 6    | 4    |
| 45° | 1    | 1     | 1    | 1     | 1    | 1    |
| 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°    | 3357.8 | 3357.8 | 3357.8 | 3357.8 | 3357.8 |
| 1°    | 3342.2 | 3338.1 | 3341.4 | 3334.5 | 3348.6 |
| 2°    | 3288.7 | 3284.7 | 3284.7 | 3280.7 | 3282.7 |
| 3°    | 3189.1 | 3195.5 | 3191.5 | 3183.0 | 3193.9 |
| 4°    | 3053.3 | 3060.5 | 3066.9 | 3067.3 | 3068.9 |
| 5°    | 2889.7 | 2887.7 | 2916.7 | 2914.6 | 2927.5 |
| 6°    | 2703.3 | 2700.9 | 2713.3 | 2734.2 | 2760.0 |
| 7°    | 2498.4 | 2469.0 | 2502.4 | 2544.6 | 2579.1 |
| 8°    | 2233.2 | 2240.8 | 2263.7 | 2313.6 | 2341.3 |
| 9°    | 2008.2 | 1963.6 | 2012.2 | 2071.7 | 2101.8 |
| 10°   | 1719.7 | 1683.5 | 1735.8 | 1798.4 | 1822.2 |
| 12.5° | 1082.4 | 1051.1 | 1068.0 | 1133.9 | 1144.3 |
| 15°   | 583.4  | 562.5  | 569.7  | 603.9  | 615.2  |
| 17.5° | 297.7  | 278.8  | 274.8  | 296.5  | 298.9  |
| 20°   | 149.1  | 144.6  | 140.2  | 142.2  | 140.6  |
| 22.5° | 69.1   | 75.1   | 74.3   | 70.3   | 75.1   |
| 25°   | 31.3   | 35.8   | 37.8   | 39.4   | 43.0   |
| 27.5° | 19.3   | 18.5   | 21.3   | 22.9   | 23.3   |
| 30°   | 12.9   | 12.5   | 12.9   | 13.3   | 13.3   |
| 32.5° | 9.2    | 8.8    | 8.4    | 8.4    | 8.8    |
| 35°   | 6.8    | 6.8    | 6.0    | 6.4    | 6.4    |
| 37.5° | 4.8    | 4.8    | 4.4    | 4.8    | 4.8    |
| 40°   | 2.8    | 3.2    | 3.2    | 3.2    | 3.6    |
| 42.5° | 1.6    | 2.0    | 2.0    | 2.0    | 2.0    |
| 45°   | 0.8    | 1.2    | 1.2    | 1.2    | 1.2    |
| 47.5° | 0.4    | 0.4    | 0.4    | 0.8    | 0.8    |
| 50°   | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 52.5° | 0.4    | 0.0    | 0.0    | 0.0    | 0.4    |
| 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)