

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: P1316223

Luminaire Tested: LDSQA3D05R159740DE010 3LSQPHR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R159740DE010 3LSQPHR1MW  
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 97CRI , 3LSQPHR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

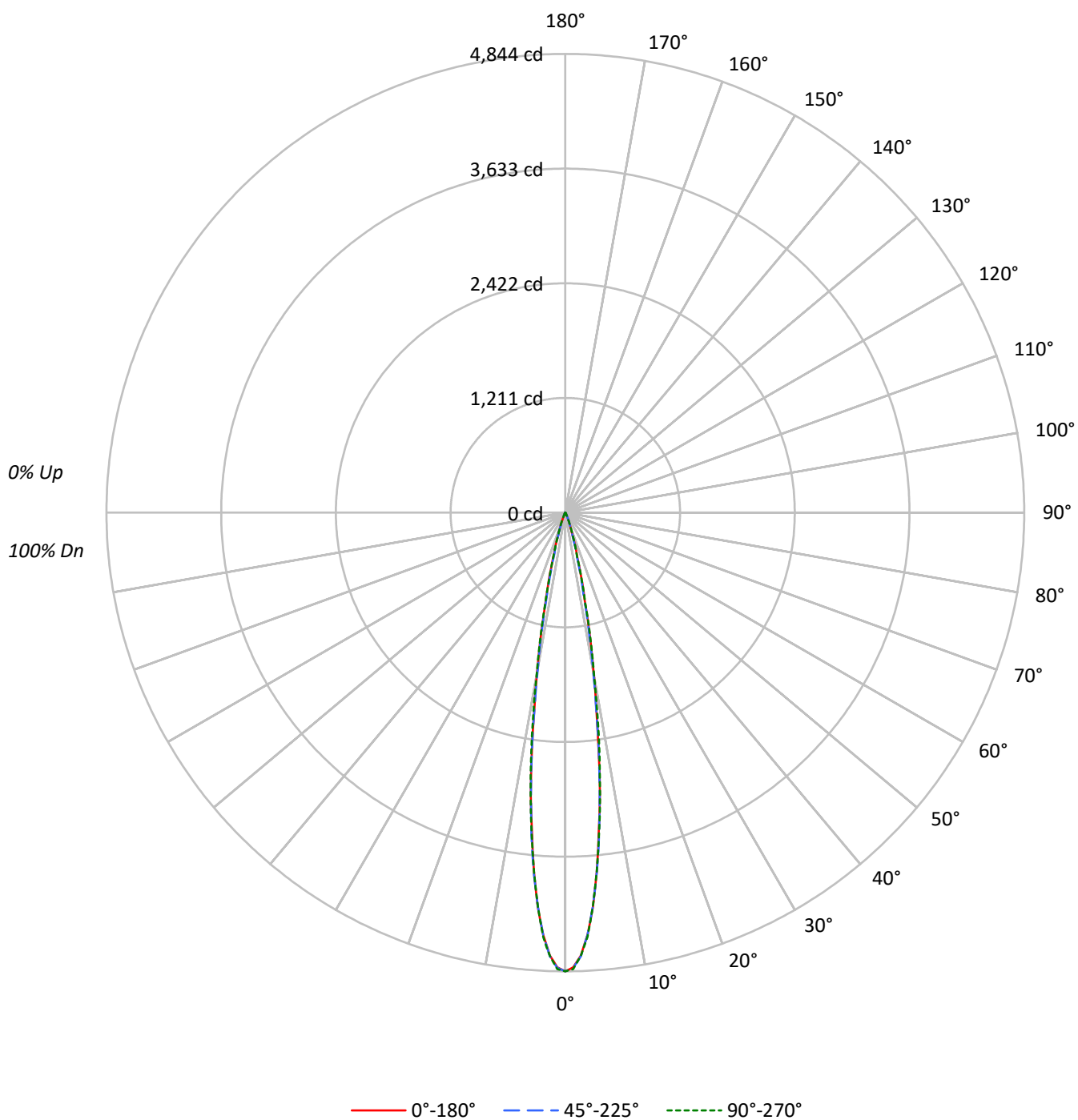
Lumens per Lamp: N/A  
Luminaire Lumens: 485.0 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.29 / 0.28  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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 | 100 | 100 | 100 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 104 | 103 | 101 | 100 | 100 | 98  | 98  | 98  |
| 2   | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 99  | 98  | 97  | 97  | 97  |
| 3   | 110 | 107 | 104 | 101 | 109 | 105 | 103 | 100 | 103 | 101 | 99  | 101 | 99  | 97  | 99  | 97  | 96  | 95  | 95  | 95  |
| 4   | 108 | 104 | 100 | 98  | 106 | 103 | 100 | 98  | 101 | 98  | 96  | 99  | 97  | 95  | 97  | 96  | 94  | 93  | 93  | 93  |
| 5   | 106 | 101 | 98  | 95  | 104 | 100 | 97  | 95  | 99  | 96  | 94  | 97  | 95  | 94  | 96  | 94  | 93  | 92  | 92  | 92  |
| 6   | 104 | 99  | 96  | 93  | 103 | 98  | 95  | 93  | 97  | 94  | 92  | 96  | 94  | 92  | 95  | 93  | 91  | 90  | 90  | 90  |
| 7   | 102 | 97  | 94  | 91  | 101 | 96  | 93  | 91  | 95  | 93  | 91  | 94  | 92  | 90  | 94  | 92  | 90  | 89  | 89  | 89  |
| 8   | 100 | 95  | 92  | 90  | 99  | 95  | 92  | 90  | 94  | 91  | 89  | 93  | 91  | 89  | 92  | 90  | 89  | 88  | 88  | 88  |
| 9   | 98  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 90  | 88  | 92  | 89  | 88  | 91  | 89  | 87  | 87  | 87  | 87  |
| 10  | 97  | 92  | 89  | 87  | 96  | 92  | 89  | 87  | 91  | 88  | 87  | 90  | 88  | 86  | 90  | 88  | 86  | 86  | 86  | 86  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 834195 | 834195 | 834195 |
| 5°  | 658018 | 659764 | 657430 |
| 10° | 301037 | 293150 | 307403 |
| 15° | 89506  | 79913  | 87687  |
| 20° | 26575  | 25787  | 27913  |
| 25° | 7563   | 9767   | 8760   |
| 30° | 2705   | 2903   | 2605   |
| 35° | 1030   | 925    | 925    |
| 40° | 427    | 225    | 337    |
| 45° | 244    | 122    | 244    |
| 50° | 134    | 0      | 134    |
| 55° | 150    | 0      | 150    |
| 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: 0°

Vertical Angle: 47.5°

Luminance: 255 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 292.7  | 60.3      |
| 10°-20°   | 162.5  | 33.5      |
| 20°-30°   | 25.9   | 5.3       |
| 30°-40°   | 3.4    | 0.7       |
| 40°-50°   | 0.5    | 0.1       |
| 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°    | 481.0  | 99.2      |
| 0°-40°    | 484.4  | 99.9      |
| 0°-60°    | 485.0  | 100.0     |
| 0°-90°    | 485.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 485.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4844 | 4844  | 4844 | 4844  | 4844 |      |
| 5°  | 3806 | 3838  | 3816 | 3800  | 3803 | 292  |
| 15° | 502  | 496   | 448  | 476   | 492  | 166  |
| 25° | 40   | 45    | 51   | 51    | 46   | 24   |
| 35° | 5    | 5     | 4    | 5     | 4    | 4    |
| 45° | 1    | 1     | 0    | 0     | 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°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4843.7 | 4843.7 | 4843.7 | 4843.7 | 4843.7 | 4843.7 | 4843.7 | 4843.7 | 4843.7 | 4843.7 | 4843.7 |
| 1°    | 4802.0 | 4807.3 | 4814.1 | 4807.8 | 4802.0 | 4807.3 | 4800.0 | 4801.0 | 4795.2 | 4807.8 | 4821.8 |
| 2°    | 4679.7 | 4686.5 | 4682.6 | 4673.9 | 4687.5 | 4688.5 | 4673.4 | 4666.1 | 4665.2 | 4677.8 | 4682.6 |
| 3°    | 4463.4 | 4478.9 | 4479.4 | 4476.5 | 4472.1 | 4463.4 | 4447.9 | 4458.1 | 4444.0 | 4435.3 | 4484.7 |
| 4°    | 4175.8 | 4189.3 | 4205.4 | 4194.7 | 4162.7 | 4165.6 | 4175.8 | 4141.3 | 4143.3 | 4163.2 | 4164.6 |
| 5°    | 3806.2 | 3847.4 | 3849.3 | 3834.3 | 3809.1 | 3816.3 | 3809.1 | 3799.4 | 3802.8 | 3815.4 | 3802.8 |
| 6°    | 3371.1 | 3417.6 | 3383.2 | 3416.2 | 3408.9 | 3418.1 | 3420.5 | 3410.4 | 3417.6 | 3409.9 | 3407.5 |
| 7°    | 2995.2 | 2959.8 | 2964.6 | 2951.0 | 2965.6 | 2975.3 | 2981.1 | 2963.6 | 2977.7 | 3000.0 | 3006.3 |
| 8°    | 2529.0 | 2518.8 | 2508.7 | 2532.9 | 2526.1 | 2537.8 | 2545.0 | 2564.4 | 2563.5 | 2570.3 | 2592.6 |
| 9°    | 2085.2 | 2100.3 | 2109.5 | 2088.1 | 2106.6 | 2070.7 | 2083.3 | 2135.2 | 2121.6 | 2135.2 | 2174.9 |
| 10°   | 1721.4 | 1733.6 | 1720.0 | 1719.5 | 1700.1 | 1676.3 | 1674.9 | 1694.3 | 1735.0 | 1767.0 | 1757.8 |
| 12.5° | 949.7  | 960.4  | 961.8  | 960.9  | 926.0  | 886.7  | 893.9  | 909.5  | 934.7  | 945.4  | 962.8  |
| 15°   | 502.0  | 501.5  | 506.9  | 491.8  | 473.4  | 448.2  | 450.1  | 471.5  | 490.4  | 495.2  | 491.8  |
| 17.5° | 257.6  | 258.5  | 262.4  | 258.5  | 239.1  | 241.6  | 246.9  | 249.3  | 260.5  | 264.8  | 262.4  |
| 20°   | 145.0  | 145.5  | 145.0  | 146.5  | 138.7  | 140.7  | 147.5  | 147.9  | 150.4  | 152.8  | 152.3  |
| 22.5° | 82.9   | 83.4   | 86.3   | 85.4   | 83.4   | 85.9   | 87.3   | 89.7   | 90.7   | 89.7   | 92.6   |
| 25°   | 39.8   | 40.3   | 40.3   | 46.1   | 49.0   | 51.4   | 52.4   | 51.4   | 50.4   | 46.6   | 46.1   |
| 27.5° | 22.8   | 22.8   | 23.8   | 24.3   | 25.2   | 29.6   | 29.1   | 24.3   | 20.4   | 20.4   | 20.9   |
| 30°   | 13.6   | 13.1   | 13.1   | 13.6   | 14.1   | 14.6   | 13.6   | 13.1   | 13.1   | 13.6   | 13.1   |
| 32.5° | 8.2    | 8.2    | 8.2    | 7.8    | 7.8    | 7.3    | 7.3    | 8.2    | 8.2    | 8.2    | 8.2    |
| 35°   | 4.9    | 4.9    | 4.9    | 4.9    | 4.4    | 4.4    | 4.4    | 4.9    | 4.9    | 4.4    | 4.4    |
| 37.5° | 2.9    | 2.9    | 2.9    | 2.4    | 2.4    | 1.9    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    |
| 40°   | 1.9    | 1.9    | 1.5    | 1.5    | 1.0    | 1.0    | 1.0    | 1.5    | 1.5    | 1.5    | 1.5    |
| 42.5° | 1.5    | 1.5    | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 1.0    | 1.0    | 1.0    | 1.0    |
| 45°   | 1.0    | 1.0    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 1.0    | 1.0    |
| 47.5° | 1.0    | 1.0    | 0.5    | 0.5    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    |
| 50°   | 0.5    | 0.5    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    |
| 52.5° | 0.5    | 0.5    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    |
| 55°   | 0.5    | 0.5    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    |
| 57.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 0.0    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)