

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: P1311126

Luminaire Tested: LDSQA3D05R209040DE010 3LSQPHR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311126  
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: LDSQA3D05R209040DE010 3LSQPHR1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 4000K CCT AND, 90CRI , 3LSQPHR1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

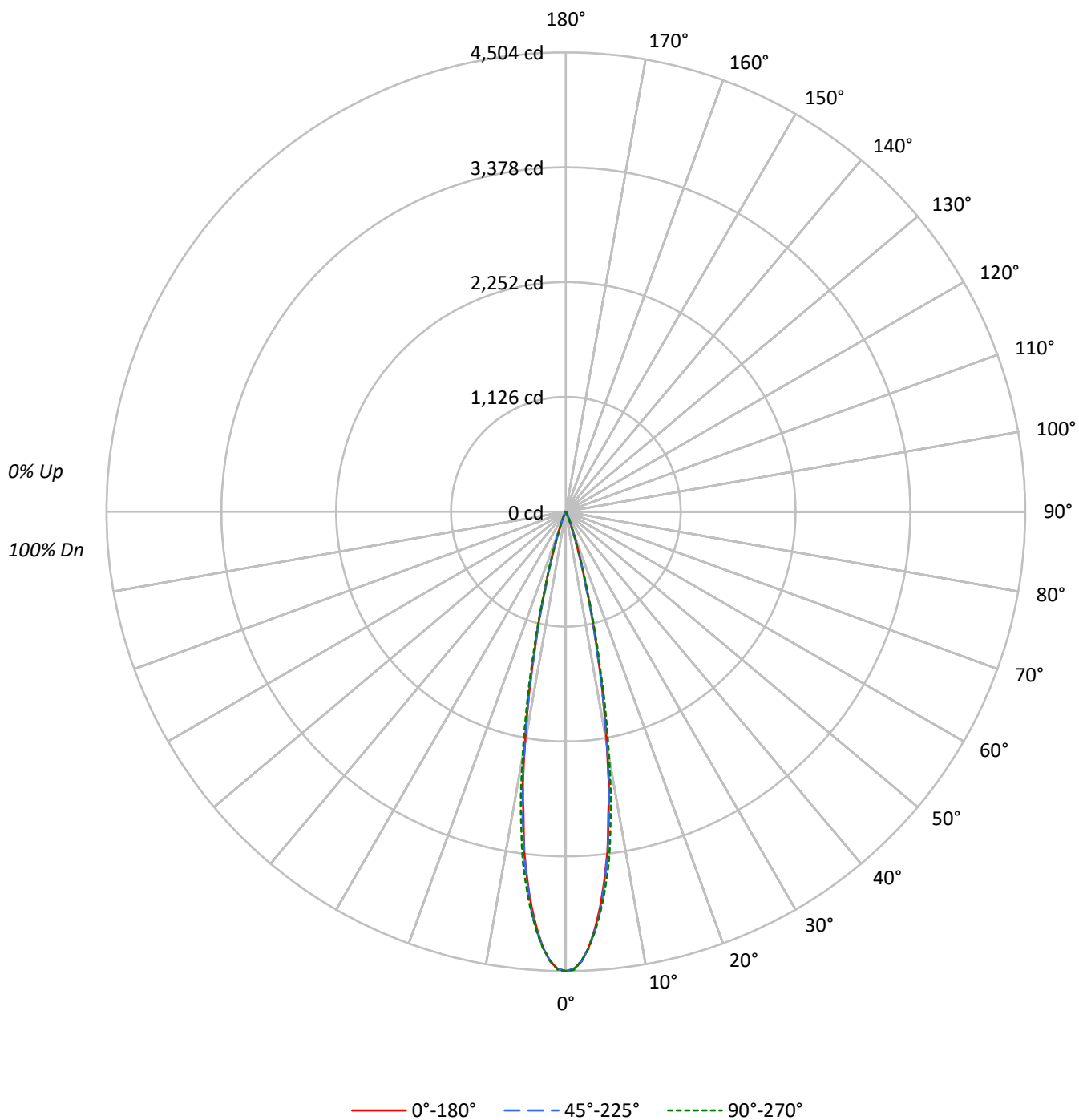
Lumens per Lamp: N/A  
Luminaire Lumens: 605.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Spacing Criteria (0/90/45): 0.35 / 0.36 / 0.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 |  | 104 | 103 | 102 |  | 101 |
| 2   | 113 | 109 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 101 |  | 102 | 101 | 99  |  | 99  |
| 3   | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 100 | 102 | 100 | 98  |  | 100 | 98  | 97  |  | 98  |
| 4   | 107 | 103 | 99  | 97  | 106 | 102 | 99  | 96  | 100 | 97  | 95  |  | 98  | 96  | 94  |  | 96  |
| 5   | 105 | 100 | 97  | 94  | 104 | 99  | 96  | 94  | 98  | 95  | 93  |  | 96  | 94  | 92  |  | 95  |
| 6   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 91  |  | 95  | 92  | 90  |  | 93  |
| 7   | 101 | 95  | 92  | 90  | 100 | 95  | 92  | 89  | 94  | 91  | 89  |  | 93  | 90  | 89  |  | 92  |
| 8   | 99  | 93  | 90  | 88  | 98  | 93  | 90  | 88  | 92  | 89  | 87  |  | 91  | 89  | 87  |  | 91  |
| 9   | 97  | 92  | 88  | 86  | 96  | 91  | 88  | 86  | 91  | 88  | 86  |  | 90  | 87  | 86  |  | 89  |
| 10  | 95  | 90  | 87  | 85  | 95  | 90  | 87  | 85  | 89  | 86  | 84  |  | 88  | 86  | 84  |  | 88  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 775760 | 775760 | 775760 |
| 5°  | 670171 | 676412 | 678919 |
| 10° | 403429 | 407207 | 427475 |
| 15° | 139536 | 136273 | 147132 |
| 20° | 36655  | 34474  | 34566  |
| 25° | 7981   | 9634   | 10965  |
| 30° | 3420   | 3420   | 3540   |
| 35° | 1934   | 1703   | 1808   |
| 40° | 854    | 967    | 1102   |
| 45° | 268    | 390    | 390    |
| 50° | 134    | 134    | 134    |
| 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: 390 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 322.2  | 53.3      |
| 10°-20°   | 245.3  | 40.5      |
| 20°-30°   | 30.3   | 5.0       |
| 30°-40°   | 5.7    | 0.9       |
| 40°-50°   | 1.4    | 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       |
| 0°-30°    | 597.8  | 98.8      |
| 0°-40°    | 603.5  | 99.8      |
| 0°-60°    | 605.0  | 100.0     |
| 0°-90°    | 605.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 605.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4504 | 4504  | 4504 | 4504  | 4504 |      |
| 5°  | 3876 | 3874  | 3913 | 3910  | 3927 | 320  |
| 15° | 783  | 755   | 764  | 810   | 825  | 245  |
| 25° | 42   | 48    | 51   | 53    | 58   | 29   |
| 35° | 9    | 9     | 8    | 9     | 9    | 6    |
| 45° | 1    | 2     | 2    | 2     | 2    | 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°    | 4504.4 | 4504.4 | 4504.4 | 4504.4 | 4504.4 |
| 1°    | 4483.4 | 4478.0 | 4482.3 | 4473.1 | 4492.0 |
| 2°    | 4411.7 | 4406.3 | 4406.3 | 4400.9 | 4403.6 |
| 3°    | 4278.0 | 4286.6 | 4281.3 | 4269.9 | 4284.5 |
| 4°    | 4095.8 | 4105.5 | 4114.2 | 4114.7 | 4116.9 |
| 5°    | 3876.5 | 3873.8 | 3912.6 | 3909.9 | 3927.1 |
| 6°    | 3626.4 | 3623.1 | 3639.9 | 3667.9 | 3702.4 |
| 7°    | 3351.5 | 3312.1 | 3356.9 | 3413.5 | 3459.8 |
| 8°    | 2995.7 | 3006.0 | 3036.7 | 3103.5 | 3140.7 |
| 9°    | 2693.9 | 2634.1 | 2699.3 | 2779.1 | 2819.5 |
| 10°   | 2306.9 | 2258.4 | 2328.5 | 2412.6 | 2444.4 |
| 12.5° | 1452.1 | 1410.0 | 1432.7 | 1521.1 | 1535.1 |
| 15°   | 782.6  | 754.6  | 764.3  | 810.1  | 825.2  |
| 17.5° | 399.4  | 374.1  | 368.7  | 397.8  | 401.0  |
| 20°   | 200.0  | 194.0  | 188.1  | 190.8  | 188.6  |
| 22.5° | 92.7   | 100.8  | 99.7   | 94.3   | 100.8  |
| 25°   | 42.0   | 48.0   | 50.7   | 52.8   | 57.7   |
| 27.5° | 25.9   | 24.8   | 28.6   | 30.7   | 31.3   |
| 30°   | 17.2   | 16.7   | 17.2   | 17.8   | 17.8   |
| 32.5° | 12.4   | 11.9   | 11.3   | 11.3   | 11.9   |
| 35°   | 9.2    | 9.2    | 8.1    | 8.6    | 8.6    |
| 37.5° | 6.5    | 6.5    | 5.9    | 6.5    | 6.5    |
| 40°   | 3.8    | 4.3    | 4.3    | 4.3    | 4.9    |
| 42.5° | 2.2    | 2.7    | 2.7    | 2.7    | 2.7    |
| 45°   | 1.1    | 1.6    | 1.6    | 1.6    | 1.6    |
| 47.5° | 0.5    | 0.5    | 0.5    | 1.1    | 1.1    |
| 50°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 52.5° | 0.5    | 0.0    | 0.0    | 0.0    | 0.5    |
| 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)