

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: P1315966

Luminaire Tested: LDSQA3D20R459735D010 3LSQCDR1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315966  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-32)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R459735D010 3LSQCDR1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , 3LSQCDR1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

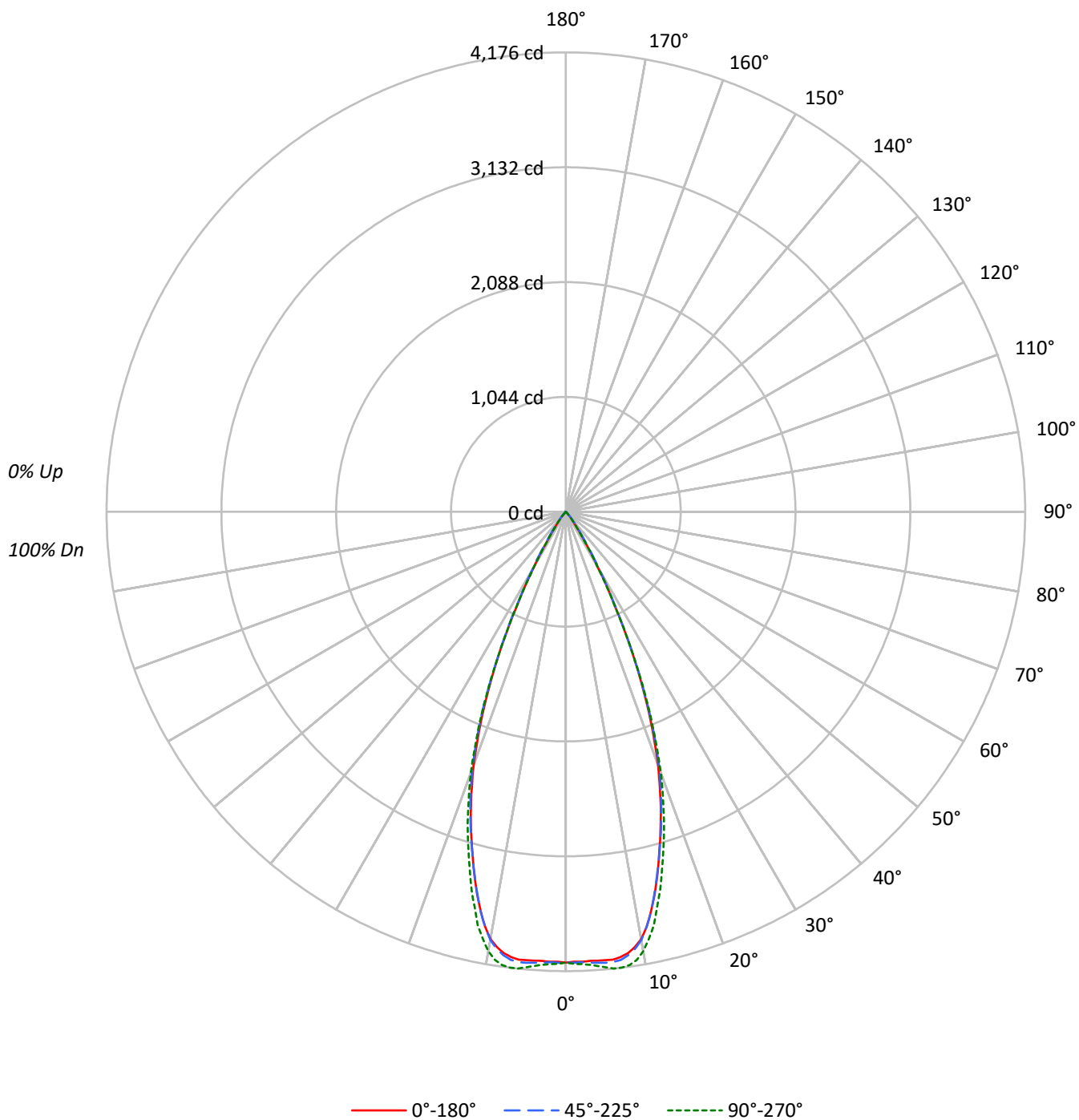
Lumens per Lamp: N/A  
Luminaire Lumens: 2119.0 lumens  
Efficiency: N/A  
Efficacy: 73.6 lumens/watt  
Spacing Criteria (0/90/45): 0.72 / 0.74 / 0.67  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 97  | 98  | 95  |
| 2   | 110 | 106 | 103 | 100 | 108 | 104 | 101 | 99  | 101 | 99  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 92  | 94  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 97  | 93  | 91  | 94  | 92  | 89  | 92  | 90  | 88  | 88  | 90  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  | 90  | 87  | 85  | 89  | 86  | 84  | 84  | 86  | 83  |
| 5   | 98  | 91  | 86  | 83  | 96  | 90  | 86  | 82  | 88  | 85  | 82  | 87  | 83  | 81  | 85  | 82  | 80  | 80  | 82  | 79  |
| 6   | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 81  | 78  | 83  | 80  | 77  | 82  | 79  | 77  | 77  | 79  | 75  |
| 7   | 91  | 83  | 78  | 75  | 89  | 82  | 78  | 74  | 81  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 73  | 76  | 72  |
| 8   | 87  | 79  | 75  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 70  | 73  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 68  | 73  | 70  | 67  | 67  | 70  | 66  |
| 10  | 81  | 73  | 68  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 71  | 67  | 65  | 65  | 67  | 64  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 705854 | 705854 | 705854 |
| 5°  | 707462 | 711542 | 718630 |
| 10° | 689760 | 691124 | 709311 |
| 15° | 581911 | 582196 | 601292 |
| 20° | 449190 | 455550 | 463046 |
| 25° | 278674 | 278959 | 280764 |
| 30° | 114964 | 122163 | 113075 |
| 35° | 35763  | 43710  | 34438  |
| 40° | 10971  | 15220  | 10274  |
| 45° | 779    | 5748   | 779    |
| 50° | 0      | 857    | 0      |
| 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: 45°

Vertical Angle: 45°

Luminance: 5748 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 390.1  | 18.4      |
| 10°-20°   | 907.0  | 42.8      |
| 20°-30°   | 665.3  | 31.4      |
| 30°-40°   | 143.0  | 6.7       |
| 40°-50°   | 13.6   | 0.6       |
| 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°    | 1962.3 | 92.6      |
| 0°-40°    | 2105.3 | 99.4      |
| 0°-60°    | 2119.0 | 100.0     |
| 0°-90°    | 2119.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2119.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 4098 | 4098  | 4098 | 4098  | 4098 |      |
| 5°  | 4092 | 4103  | 4116 | 4144  | 4157 | 387  |
| 15° | 3264 | 3257  | 3265 | 3317  | 3372 | 899  |
| 25° | 1466 | 1462  | 1468 | 1468  | 1478 | 658  |
| 35° | 170  | 183   | 208  | 178   | 164  | 134  |
| 45° | 3    | 10    | 24   | 10    | 3    | 8    |
| 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°    | 4098.5 | 4098.5 | 4098.5 | 4098.5 | 4098.5 |
| 1°    | 4090.6 | 4100.1 | 4100.1 | 4106.4 | 4109.5 |
| 2°    | 4093.8 | 4100.1 | 4098.5 | 4109.5 | 4114.3 |
| 3°    | 4089.1 | 4100.1 | 4103.2 | 4115.8 | 4123.7 |
| 4°    | 4090.6 | 4100.1 | 4109.5 | 4128.4 | 4139.5 |
| 5°    | 4092.2 | 4103.2 | 4115.8 | 4144.2 | 4156.8 |
| 6°    | 4093.8 | 4101.7 | 4115.8 | 4152.1 | 4175.7 |
| 7°    | 4078.0 | 4089.1 | 4104.8 | 4150.5 | 4175.7 |
| 8°    | 4052.8 | 4059.1 | 4071.7 | 4131.6 | 4161.5 |
| 9°    | 4005.6 | 4004.0 | 4022.9 | 4089.1 | 4123.7 |
| 10°   | 3944.2 | 3925.3 | 3952.0 | 4018.2 | 4056.0 |
| 11°   | 3844.9 | 3824.4 | 3848.1 | 3918.9 | 3955.2 |
| 12°   | 3715.8 | 3715.8 | 3720.5 | 3783.5 | 3846.5 |
| 13°   | 3578.7 | 3563.0 | 3572.4 | 3643.3 | 3687.4 |
| 14°   | 3427.5 | 3411.8 | 3421.2 | 3474.8 | 3544.1 |
| 15°   | 3263.7 | 3257.4 | 3265.3 | 3317.2 | 3372.4 |
| 17.5° | 2874.6 | 2860.5 | 2888.8 | 2940.8 | 2969.1 |
| 20°   | 2450.9 | 2474.5 | 2485.6 | 2518.6 | 2526.5 |
| 22.5° | 1964.2 | 1989.4 | 2005.2 | 2009.9 | 2014.6 |
| 25°   | 1466.5 | 1461.7 | 1468.0 | 1468.0 | 1477.5 |
| 27.5° | 964.0  | 964.0  | 981.3  | 970.3  | 959.3  |
| 30°   | 578.1  | 601.7  | 614.3  | 593.8  | 568.6  |
| 32.5° | 315.0  | 338.7  | 359.1  | 329.2  | 307.2  |
| 35°   | 170.1  | 182.7  | 207.9  | 178.0  | 163.8  |
| 37.5° | 92.9   | 104.0  | 119.7  | 100.8  | 92.9   |
| 40°   | 48.8   | 59.9   | 67.7   | 59.9   | 45.7   |
| 42.5° | 15.8   | 29.9   | 39.4   | 29.9   | 14.2   |
| 45°   | 3.2    | 9.5    | 23.6   | 9.5    | 3.2    |
| 47.5° | 0.0    | 1.6    | 11.0   | 1.6    | 0.0    |
| 50°   | 0.0    | 0.0    | 3.2    | 0.0    | 0.0    |
| 52.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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    |



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CANDELA DISTRIBUTION (continued):

|     | 0°  | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |

(END OF REPORT)