

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: P1318620

Luminaire Tested: LDSQA3D20R209830D010 3LSQPHRL1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318620  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R209830D010 3LSQPHRL1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , 3LSQPHRL1MW TRIM  
Light Source: -  
Ballast/Driver: -

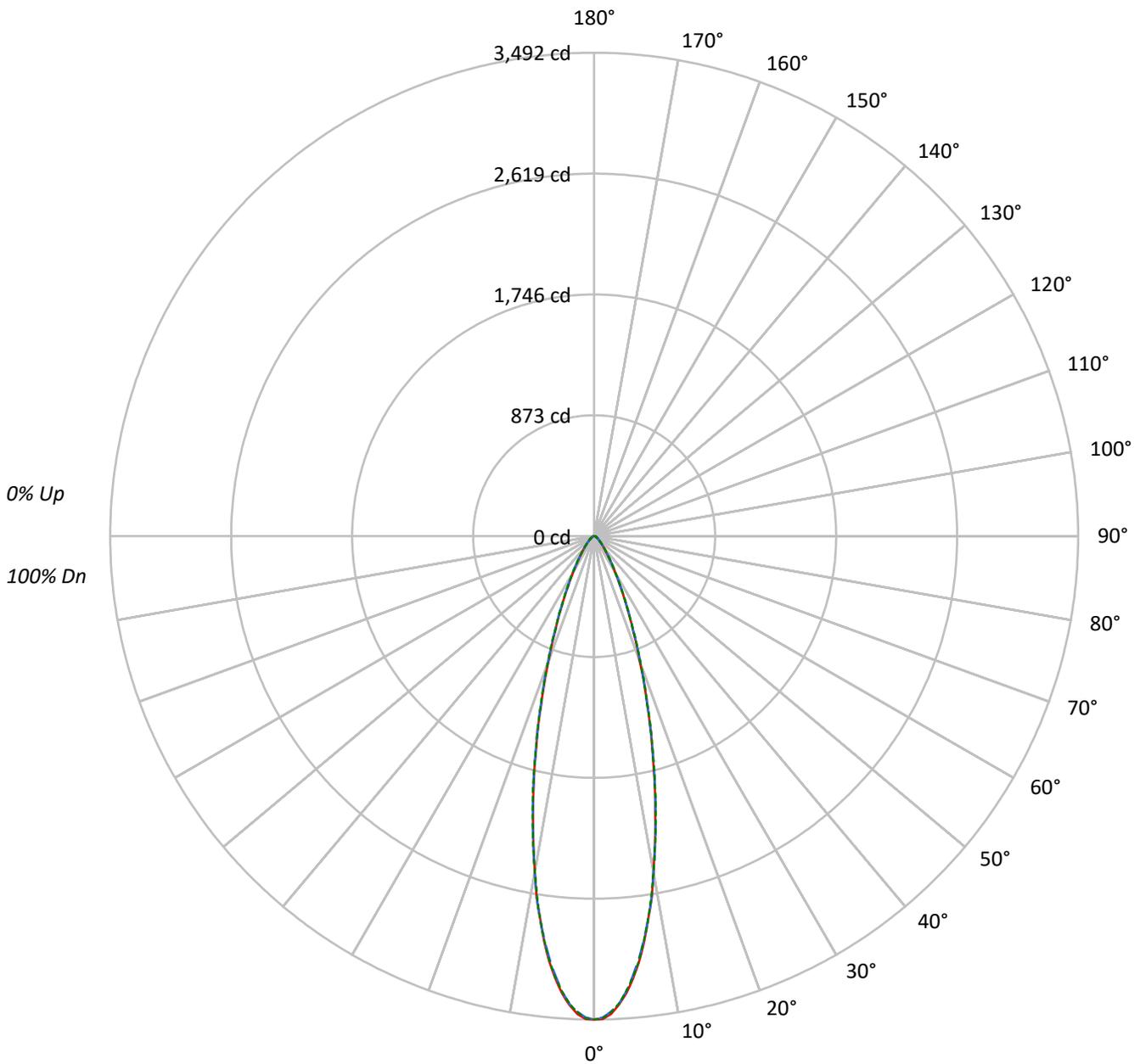
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1227.0 lumens  
Efficiency: N/A  
Efficacy: 44.8 lumens/watt  
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 27.4  
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



— 0°-180°    - - 45°-225°    - · - · 90°-270°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     |     |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |     | 30  |     |     |     | 10  |     |     | 0   |     |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 96  | 96  | 96  | 94  |
| 2   | 109 | 104 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  | 96  | 94  | 92  | 94  | 92  | 90  | 94  | 92  | 90  | 89  |
| 3   | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  | 92  | 89  | 87  | 90  | 87  | 85  | 90  | 87  | 85  | 84  |
| 4   | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  | 88  | 84  | 82  | 86  | 83  | 81  | 86  | 83  | 81  | 79  |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 82  | 79  | 86  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 77  | 82  | 79  | 77  | 75  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  | 80  | 77  | 74  | 79  | 76  | 73  | 79  | 76  | 73  | 72  |
| 7   | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 76  | 73  | 70  | 69  |
| 8   | 85  | 77  | 72  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 73  | 70  | 67  | 73  | 70  | 67  | 66  |
| 9   | 82  | 74  | 69  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 65  | 71  | 67  | 64  | 71  | 67  | 64  | 63  |
| 10  | 79  | 71  | 66  | 62  | 78  | 70  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 68  | 65  | 62  | 68  | 65  | 62  | 61  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 601315 | 601315 | 601315 |
| 5°  | 554739 | 551575 | 553425 |
| 10° | 430483 | 431025 | 431025 |
| 15° | 290965 | 292337 | 292337 |
| 20° | 176714 | 178950 | 179793 |
| 25° | 103660 | 105104 | 104819 |
| 30° | 60475  | 61688  | 61986  |
| 35° | 36940  | 37907  | 37907  |
| 40° | 24056  | 24393  | 24730  |
| 45° | 16757  | 17122  | 17488  |
| 50° | 12271  | 12700  | 12700  |
| 55° | 9638   | 10089  | 10089  |
| 60° | 8404   | 8404   | 8956   |
| 65° | 7457   | 7457   | 8110   |
| 70° | 6949   | 6949   | 6949   |
| 75° | 6122   | 6122   | 6122   |
| 80° | 4562   | 4562   | 6050   |
| 85° | 2964   | 2964   | 6126   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 17488 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 281.5  | 22.9      |
| 10°-20°   | 450.9  | 36.7      |
| 20°-30°   | 261.1  | 21.3      |
| 30°-40°   | 117.1  | 9.5       |
| 40°-50°   | 55.5   | 4.5       |
| 50°-60°   | 30.4   | 2.5       |
| 60°-70°   | 18.4   | 1.5       |
| 70°-80°   | 9.9    | 0.8       |
| 80°-90°   | 2.2    | 0.2       |
| 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°    | 993.5  | 81.0      |
| 0°-40°    | 1110.6 | 90.5      |
| 0°-60°    | 1196.5 | 97.5      |
| 0°-90°    | 1227.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1227.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3492 | 3492  | 3492 | 3492  | 3492 |      |
| 5°  | 3209 | 3198  | 3190 | 3197  | 3201 | 282  |
| 15° | 1632 | 1632  | 1640 | 1632  | 1640 | 450  |
| 25° | 546  | 546   | 553  | 549   | 552  | 258  |
| 35° | 176  | 177   | 180  | 182   | 180  | 115  |
| 45° | 69   | 69    | 70   | 70    | 72   | 54   |
| 55° | 32   | 32    | 34   | 34    | 34   | 30   |
| 65° | 18   | 18    | 18   | 18    | 20   | 18   |
| 75° | 9    | 9     | 9    | 9     | 9    | 10   |
| 85° | 2    | 2     | 2    | 2     | 3    | 2    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3491.5 | 3491.5 | 3491.5 | 3491.5 | 3491.5 |
| 1°    | 3490.0 | 3480.8 | 3477.8 | 3474.7 | 3483.9 |
| 2°    | 3454.8 | 3444.1 | 3438.0 | 3441.1 | 3442.6 |
| 3°    | 3392.2 | 3386.1 | 3386.1 | 3381.5 | 3384.6 |
| 4°    | 3311.2 | 3299.0 | 3299.0 | 3300.5 | 3300.5 |
| 5°    | 3208.8 | 3198.1 | 3190.5 | 3196.6 | 3201.2 |
| 6°    | 3094.2 | 3080.5 | 3074.4 | 3075.9 | 3086.6 |
| 7°    | 2953.7 | 2935.3 | 2938.4 | 2946.0 | 2946.0 |
| 8°    | 2794.7 | 2793.2 | 2796.3 | 2793.2 | 2796.3 |
| 9°    | 2648.1 | 2626.7 | 2645.0 | 2629.7 | 2637.4 |
| 10°   | 2461.6 | 2460.1 | 2464.7 | 2469.3 | 2464.7 |
| 12.5° | 2036.8 | 2044.5 | 2047.5 | 2041.4 | 2055.2 |
| 15°   | 1631.9 | 1631.9 | 1639.6 | 1631.9 | 1639.6 |
| 17.5° | 1269.8 | 1268.3 | 1274.4 | 1268.3 | 1277.4 |
| 20°   | 964.2  | 974.9  | 976.4  | 976.4  | 981.0  |
| 22.5° | 727.3  | 727.3  | 733.4  | 735.0  | 731.9  |
| 25°   | 545.5  | 545.5  | 553.1  | 548.6  | 551.6  |
| 27.5° | 403.4  | 406.5  | 412.6  | 415.6  | 415.6  |
| 30°   | 304.1  | 305.6  | 310.2  | 311.7  | 311.7  |
| 32.5° | 229.2  | 232.3  | 235.3  | 236.8  | 238.4  |
| 35°   | 175.7  | 177.2  | 180.3  | 181.8  | 180.3  |
| 37.5° | 134.5  | 136.0  | 139.0  | 140.6  | 140.6  |
| 40°   | 107.0  | 107.0  | 108.5  | 110.0  | 110.0  |
| 42.5° | 84.0   | 85.6   | 85.6   | 87.1   | 87.1   |
| 45°   | 68.8   | 68.8   | 70.3   | 70.3   | 71.8   |
| 47.5° | 55.0   | 55.0   | 56.5   | 58.1   | 58.1   |
| 50°   | 45.8   | 45.8   | 47.4   | 47.4   | 47.4   |
| 52.5° | 38.2   | 38.2   | 39.7   | 39.7   | 39.7   |
| 55°   | 32.1   | 32.1   | 33.6   | 33.6   | 33.6   |
| 57.5° | 27.5   | 27.5   | 29.0   | 29.0   | 29.0   |
| 60°   | 24.4   | 24.4   | 24.4   | 24.4   | 26.0   |
| 62.5° | 21.4   | 21.4   | 21.4   | 21.4   | 21.4   |
| 65°   | 18.3   | 18.3   | 18.3   | 18.3   | 19.9   |
| 67.5° | 15.3   | 15.3   | 15.3   | 15.3   | 16.8   |
| 70°   | 13.8   | 13.8   | 13.8   | 13.8   | 13.8   |
| 72.5° | 10.7   | 10.7   | 10.7   | 12.2   | 12.2   |
| 75°   | 9.2    | 9.2    | 9.2    | 9.2    | 9.2    |
| 77.5° | 7.6    | 7.6    | 7.6    | 7.6    | 7.6    |
| 80°   | 4.6    | 4.6    | 4.6    | 6.1    | 6.1    |
| 82.5° | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    |
| 85°   | 1.5    | 1.5    | 1.5    | 1.5    | 3.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.5    | 1.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)