

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: P1317890

Luminaire Tested: LDSQA3D02R209830DE010 3LSQPHRL1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317890  
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: LDSQA3D02R209830DE010 3LSQPHRL1MW  
Description: 3in Adjustable LED luminaire with, R20 optic, 3000K CCT AND, 98CRI , 3LSQPHRL1MW TRIM  
Light Source: -  
Ballast/Driver: -

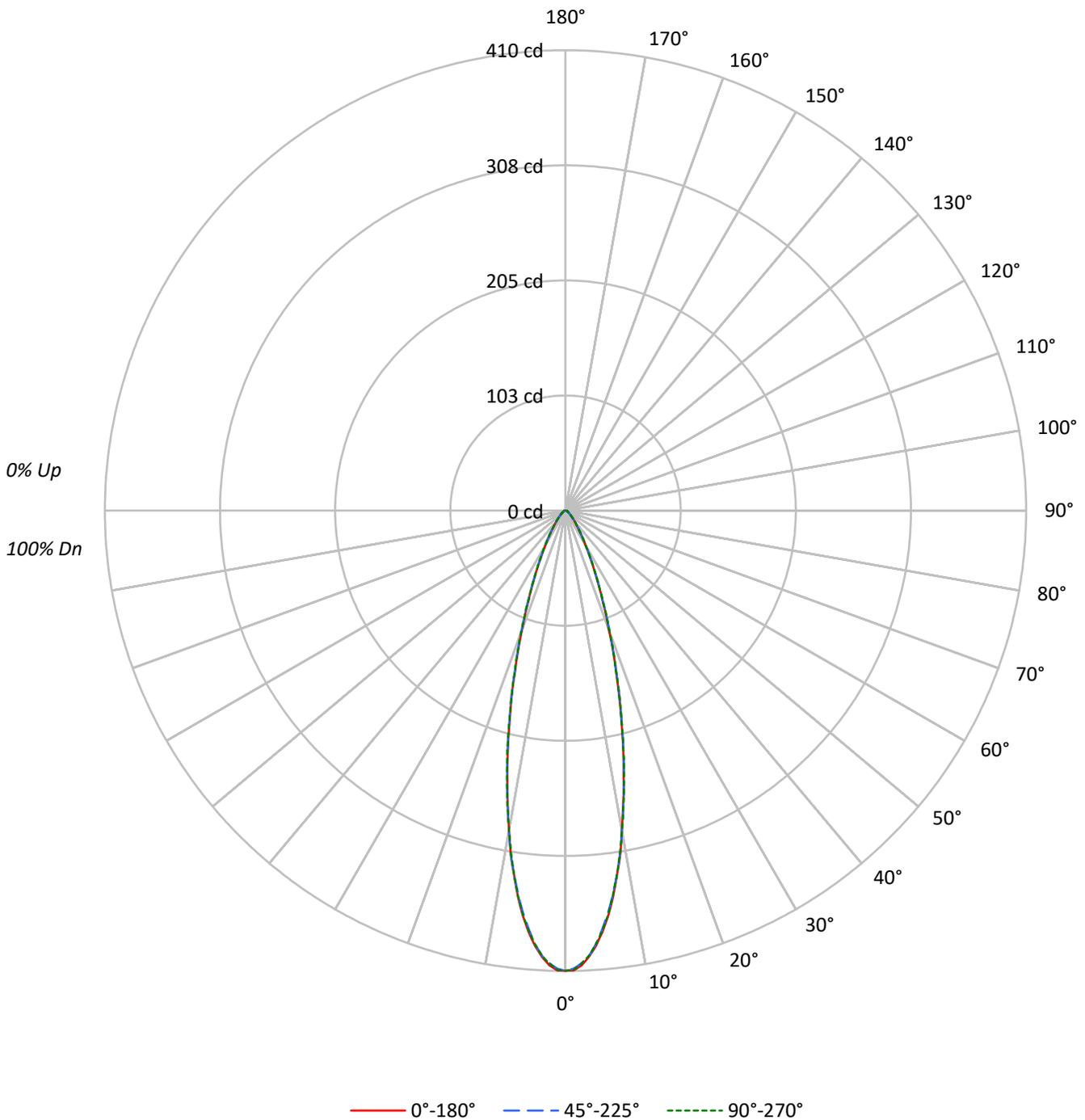
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 144.0 lumens  
Efficiency: N/A  
Efficacy: 40.0 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): 3.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P1317890  
CATALOG NUMBER: LDSQA3D02R209830DE010 3LSQPHRL1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1317890  
 CATALOG NUMBER: LDSQA3D02R209830DE010 3LSQPHRL1MW

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 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  | 68  | 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°  | 70577 | 70577 | 70577 |
| 5°  | 65107 | 64726 | 64951 |
| 10° | 50523 | 50593 | 50593 |
| 15° | 34144 | 34305 | 34305 |
| 20° | 20747 | 21003 | 21095 |
| 25° | 12162 | 12333 | 12295 |
| 30° | 7100  | 7239  | 7278  |
| 35° | 4331  | 4457  | 4457  |
| 40° | 2833  | 2855  | 2900  |
| 45° | 1973  | 1997  | 2046  |
| 50° | 1447  | 1500  | 1500  |
| 55° | 1141  | 1171  | 1171  |
| 60° | 999   | 999   | 1033  |
| 65° | 897   | 897   | 937   |
| 70° | 806   | 806   | 806   |
| 75° | 732   | 732   | 732   |
| 80° | 496   | 496   | 694   |
| 85° | 395   | 395   | 790   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 2046 cd/sqm



TEST NUMBER: P1317890

CATALOG NUMBER: LDSQA3D02R209830DE010 3LSQPHRL1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.0   | 22.9      |
| 10°-20°   | 52.9   | 36.7      |
| 20°-30°   | 30.6   | 21.3      |
| 30°-40°   | 13.7   | 9.5       |
| 40°-50°   | 6.5    | 4.5       |
| 50°-60°   | 3.6    | 2.5       |
| 60°-70°   | 2.2    | 1.5       |
| 70°-80°   | 1.2    | 0.8       |
| 80°-90°   | 0.3    | 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°    | 116.6  | 81.0      |
| 0°-40°    | 130.3  | 90.5      |
| 0°-60°    | 140.4  | 97.5      |
| 0°-90°    | 144.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 144.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 410 | 410   | 410 | 410   | 410 |      |
| 5°  | 377 | 375   | 374 | 375   | 376 | 33   |
| 15° | 192 | 192   | 192 | 192   | 192 | 53   |
| 25° | 64  | 64    | 65  | 64    | 65  | 30   |
| 35° | 21  | 21    | 21  | 21    | 21  | 13   |
| 45° | 8   | 8     | 8   | 8     | 8   | 6    |
| 55° | 4   | 4     | 4   | 4     | 4   | 3    |
| 65° | 2   | 2     | 2   | 2     | 2   | 2    |
| 75° | 1   | 1     | 1   | 1     | 1   | 1    |
| 85° | 0   | 0     | 0   | 0     | 0   | 0    |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



TEST NUMBER: P1317890  
 CATALOG NUMBER: LDSQA3D02R209830DE010 3LSQPHRL1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 409.8 | 409.8 | 409.8 | 409.8 | 409.8 |
| 1°    | 409.6 | 408.5 | 408.1 | 407.8 | 408.9 |
| 2°    | 405.5 | 404.2 | 403.5 | 403.8 | 404.0 |
| 3°    | 398.1 | 397.4 | 397.4 | 396.9 | 397.2 |
| 4°    | 388.6 | 387.2 | 387.2 | 387.3 | 387.3 |
| 5°    | 376.6 | 375.3 | 374.4 | 375.2 | 375.7 |
| 6°    | 363.1 | 361.5 | 360.8 | 361.0 | 362.2 |
| 7°    | 346.6 | 344.5 | 344.8 | 345.7 | 345.7 |
| 8°    | 328.0 | 327.8 | 328.2 | 327.8 | 328.2 |
| 9°    | 310.8 | 308.3 | 310.4 | 308.6 | 309.5 |
| 10°   | 288.9 | 288.7 | 289.3 | 289.8 | 289.3 |
| 12.5° | 239.0 | 239.9 | 240.3 | 239.6 | 241.2 |
| 15°   | 191.5 | 191.5 | 192.4 | 191.5 | 192.4 |
| 17.5° | 149.0 | 148.8 | 149.6 | 148.8 | 149.9 |
| 20°   | 113.2 | 114.4 | 114.6 | 114.6 | 115.1 |
| 22.5° | 85.4  | 85.4  | 86.1  | 86.3  | 85.9  |
| 25°   | 64.0  | 64.0  | 64.9  | 64.4  | 64.7  |
| 27.5° | 47.3  | 47.7  | 48.4  | 48.8  | 48.8  |
| 30°   | 35.7  | 35.9  | 36.4  | 36.6  | 36.6  |
| 32.5° | 26.9  | 27.3  | 27.6  | 27.8  | 28.0  |
| 35°   | 20.6  | 20.8  | 21.2  | 21.3  | 21.2  |
| 37.5° | 15.8  | 16.0  | 16.3  | 16.5  | 16.5  |
| 40°   | 12.6  | 12.6  | 12.7  | 12.9  | 12.9  |
| 42.5° | 9.9   | 10.0  | 10.0  | 10.2  | 10.2  |
| 45°   | 8.1   | 8.1   | 8.2   | 8.2   | 8.4   |
| 47.5° | 6.5   | 6.5   | 6.6   | 6.8   | 6.8   |
| 50°   | 5.4   | 5.4   | 5.6   | 5.6   | 5.6   |
| 52.5° | 4.5   | 4.5   | 4.7   | 4.7   | 4.7   |
| 55°   | 3.8   | 3.8   | 3.9   | 3.9   | 3.9   |
| 57.5° | 3.2   | 3.2   | 3.4   | 3.4   | 3.4   |
| 60°   | 2.9   | 2.9   | 2.9   | 2.9   | 3.0   |
| 62.5° | 2.5   | 2.5   | 2.5   | 2.5   | 2.5   |
| 65°   | 2.2   | 2.2   | 2.2   | 2.2   | 2.3   |
| 67.5° | 1.8   | 1.8   | 1.8   | 1.8   | 2.0   |
| 70°   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   |
| 72.5° | 1.3   | 1.3   | 1.3   | 1.4   | 1.4   |
| 75°   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   |
| 77.5° | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   |
| 80°   | 0.5   | 0.5   | 0.5   | 0.7   | 0.7   |
| 82.5° | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 85°   | 0.2   | 0.2   | 0.2   | 0.2   | 0.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)