

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: P1310719

Luminaire Tested: LDSQA3D20R509035D010 3LSQCDR1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-39)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R509035D010 3LSQCDR1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , 3LSQCDR1MW TRIM  
Light Source: -  
Ballast/Driver: -

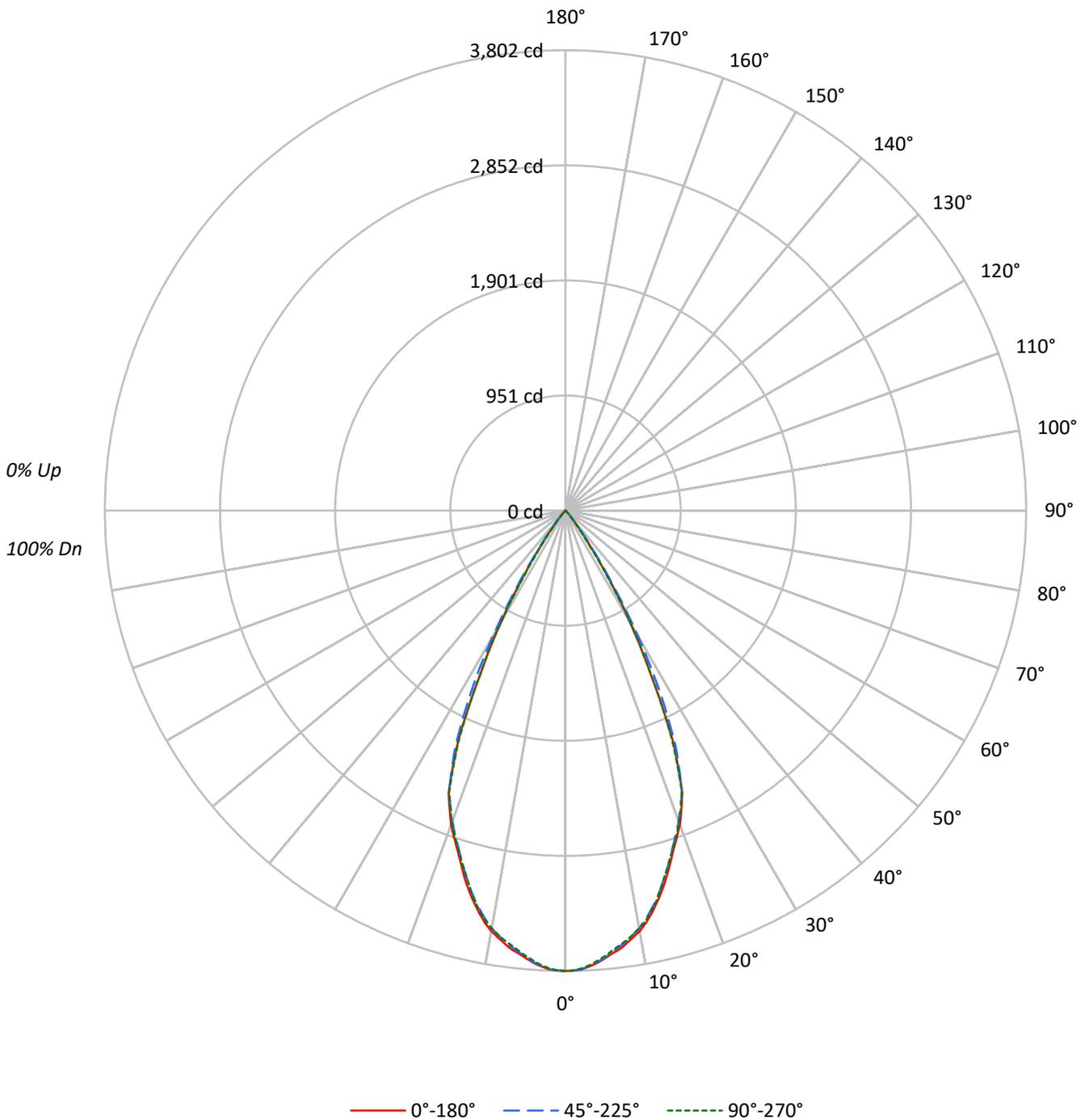
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2449.9 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78  
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 (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: P1310719  
CATALOG NUMBER: LDSQA3D20R509035D010 3LSQCDR1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1310719  
 CATALOG NUMBER: LDSQA3D20R509035D010 3LSQCDR1MW

**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 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 96  | 96  | 96  | 95  |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 93  | 91  | 91  | 91  | 91  | 90  |
| 3   | 105 | 99  | 94  | 91  | 103 | 98  | 93  | 90  | 95  | 92  | 89  | 93  | 90  | 87  | 90  | 88  | 86  | 86  | 86  | 86  | 85  |
| 4   | 100 | 93  | 89  | 85  | 98  | 92  | 88  | 84  | 90  | 86  | 83  | 88  | 85  | 82  | 87  | 84  | 81  | 81  | 81  | 81  | 80  |
| 5   | 96  | 88  | 83  | 80  | 94  | 88  | 83  | 79  | 86  | 82  | 78  | 84  | 81  | 78  | 83  | 80  | 77  | 77  | 77  | 77  | 76  |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  | 80  | 77  | 74  | 79  | 76  | 73  | 73  | 73  | 73  | 72  |
| 7   | 88  | 80  | 74  | 71  | 87  | 79  | 74  | 70  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 69  | 69  | 69  | 68  |
| 8   | 84  | 76  | 71  | 67  | 83  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 72  | 69  | 66  | 66  | 66  | 66  | 65  |
| 9   | 81  | 72  | 67  | 64  | 80  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 63  | 69  | 66  | 63  | 63  | 63  | 63  | 62  |
| 10  | 78  | 69  | 64  | 60  | 77  | 69  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 60  | 66  | 63  | 60  | 60  | 60  | 60  | 59  |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 654739 | 654739 | 654739 |
| 5°  | 641905 | 640712 | 638897 |
| 10° | 616782 | 612533 | 612830 |
| 15° | 566203 | 560943 | 560319 |
| 20° | 505840 | 500415 | 502963 |
| 25° | 397574 | 409127 | 394267 |
| 30° | 212707 | 238301 | 213383 |
| 35° | 69465  | 81176  | 65449  |
| 40° | 17199  | 21515  | 16412  |
| 45° | 2119   | 7623   | 2119   |
| 50° | 1393   | 2331   | 1393   |
| 55° | 1561   | 1561   | 1561   |
| 60° | 1206   | 1206   | 1206   |
| 65° | 1426   | 1426   | 1426   |
| 70° | 856    | 856    | 856    |
| 75° | 1131   | 1131   | 1131   |
| 80° | 1686   | 1686   | 1686   |
| 85° | 0      | 0      | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 7623 cd/sqm



TEST NUMBER: P1310719

CATALOG NUMBER: LDSQA3D20R509035D010 3LSQCDR1MW

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 347.6  | 14.2      |
| 10°-20°   | 879.2  | 35.9      |
| 20°-30°   | 924.7  | 37.7      |
| 30°-40°   | 266.5  | 10.9      |
| 40°-50°   | 21.7   | 0.9       |
| 50°-60°   | 4.7    | 0.2       |
| 60°-70°   | 3.3    | 0.1       |
| 70°-80°   | 1.8    | 0.1       |
| 80°-90°   | 0.5    | 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°    | 2151.5 | 87.8      |
| 0°-40°    | 2418.0 | 98.7      |
| 0°-60°    | 2444.3 | 99.8      |
| 0°-90°    | 2449.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2449.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 3802 | 3802  | 3802 | 3802  | 3802 |      |
| 5°  | 3713 | 3711  | 3706 | 3710  | 3696 | 349  |
| 15° | 3176 | 3155  | 3146 | 3146  | 3143 | 884  |
| 25° | 2092 | 2144  | 2153 | 2129  | 2075 | 907  |
| 35° | 330  | 343   | 386  | 330   | 311  | 255  |
| 45° | 9    | 17    | 31   | 17    | 9    | 16   |
| 55° | 5    | 5     | 5    | 5     | 5    | 4    |
| 65° | 4    | 4     | 4    | 4     | 4    | 3    |
| 75° | 2    | 2     | 2    | 2     | 2    | 2    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P1310719

CATALOG NUMBER: LDSQA3D20R509035D010 3LSQCDR1MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 3801.7 | 3801.7 | 3801.7 | 3801.7 | 3801.7 |
| 1°    | 3800.0 | 3803.5 | 3796.5 | 3808.7 | 3798.2 |
| 2°    | 3791.3 | 3793.0 | 3789.6 | 3798.2 | 3784.3 |
| 3°    | 3770.4 | 3773.9 | 3766.9 | 3773.9 | 3761.7 |
| 4°    | 3746.1 | 3746.1 | 3739.1 | 3744.3 | 3728.7 |
| 5°    | 3713.0 | 3711.3 | 3706.1 | 3709.6 | 3695.6 |
| 6°    | 3678.2 | 3676.5 | 3667.8 | 3667.8 | 3657.4 |
| 7°    | 3652.2 | 3640.0 | 3633.0 | 3631.3 | 3620.9 |
| 8°    | 3610.4 | 3606.9 | 3593.0 | 3593.0 | 3586.1 |
| 9°    | 3568.7 | 3565.2 | 3549.6 | 3553.0 | 3547.8 |
| 10°   | 3526.9 | 3514.8 | 3502.6 | 3504.3 | 3504.3 |
| 11°   | 3471.3 | 3460.9 | 3443.5 | 3450.4 | 3453.9 |
| 12°   | 3405.2 | 3393.0 | 3377.4 | 3391.3 | 3389.6 |
| 13°   | 3332.2 | 3321.7 | 3309.6 | 3320.0 | 3316.5 |
| 14°   | 3255.6 | 3240.0 | 3229.6 | 3236.5 | 3233.0 |
| 15°   | 3175.6 | 3154.8 | 3146.1 | 3146.1 | 3142.6 |
| 17.5° | 2951.3 | 2939.1 | 2930.4 | 2925.2 | 2937.4 |
| 20°   | 2760.0 | 2749.6 | 2730.4 | 2735.6 | 2744.3 |
| 22.5° | 2520.0 | 2518.3 | 2507.8 | 2499.1 | 2509.6 |
| 25°   | 2092.2 | 2144.3 | 2153.0 | 2128.7 | 2074.8 |
| 27.5° | 1520.0 | 1641.7 | 1685.2 | 1627.8 | 1528.7 |
| 30°   | 1069.6 | 1127.0 | 1198.3 | 1085.2 | 1073.0 |
| 32.5° | 645.2  | 660.9  | 727.0  | 648.7  | 631.3  |
| 35°   | 330.4  | 342.6  | 386.1  | 330.4  | 311.3  |
| 37.5° | 154.8  | 161.7  | 179.1  | 154.8  | 144.3  |
| 40°   | 76.5   | 85.2   | 95.7   | 80.0   | 73.0   |
| 42.5° | 33.0   | 43.5   | 55.7   | 41.7   | 29.6   |
| 45°   | 8.7    | 17.4   | 31.3   | 17.4   | 8.7    |
| 47.5° | 5.2    | 7.0    | 17.4   | 7.0    | 5.2    |
| 50°   | 5.2    | 5.2    | 8.7    | 5.2    | 5.2    |
| 52.5° | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    |
| 55°   | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    |
| 57.5° | 5.2    | 5.2    | 5.2    | 5.2    | 5.2    |
| 60°   | 3.5    | 5.2    | 3.5    | 5.2    | 3.5    |
| 62.5° | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 65°   | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 67.5° | 3.5    | 3.5    | 3.5    | 3.5    | 3.5    |
| 70°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 72.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 75°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 77.5° | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 80°   | 1.7    | 1.7    | 1.7    | 1.7    | 1.7    |
| 82.5° | 0.0    | 1.7    | 0.0    | 1.7    | 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    |



TEST NUMBER: P1310719  
CATALOG NUMBER: LDSQA3D20R509035D010 3LSQCDR1MW

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)