

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: P1320452

Luminaire Tested: LDSQA3D20R509840D010 3LSQCDR1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320452
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: LDSQA3D20R509840D010 3LSQCDR1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCDR1MW TRIM
Light Source: -
Ballast/Driver: -

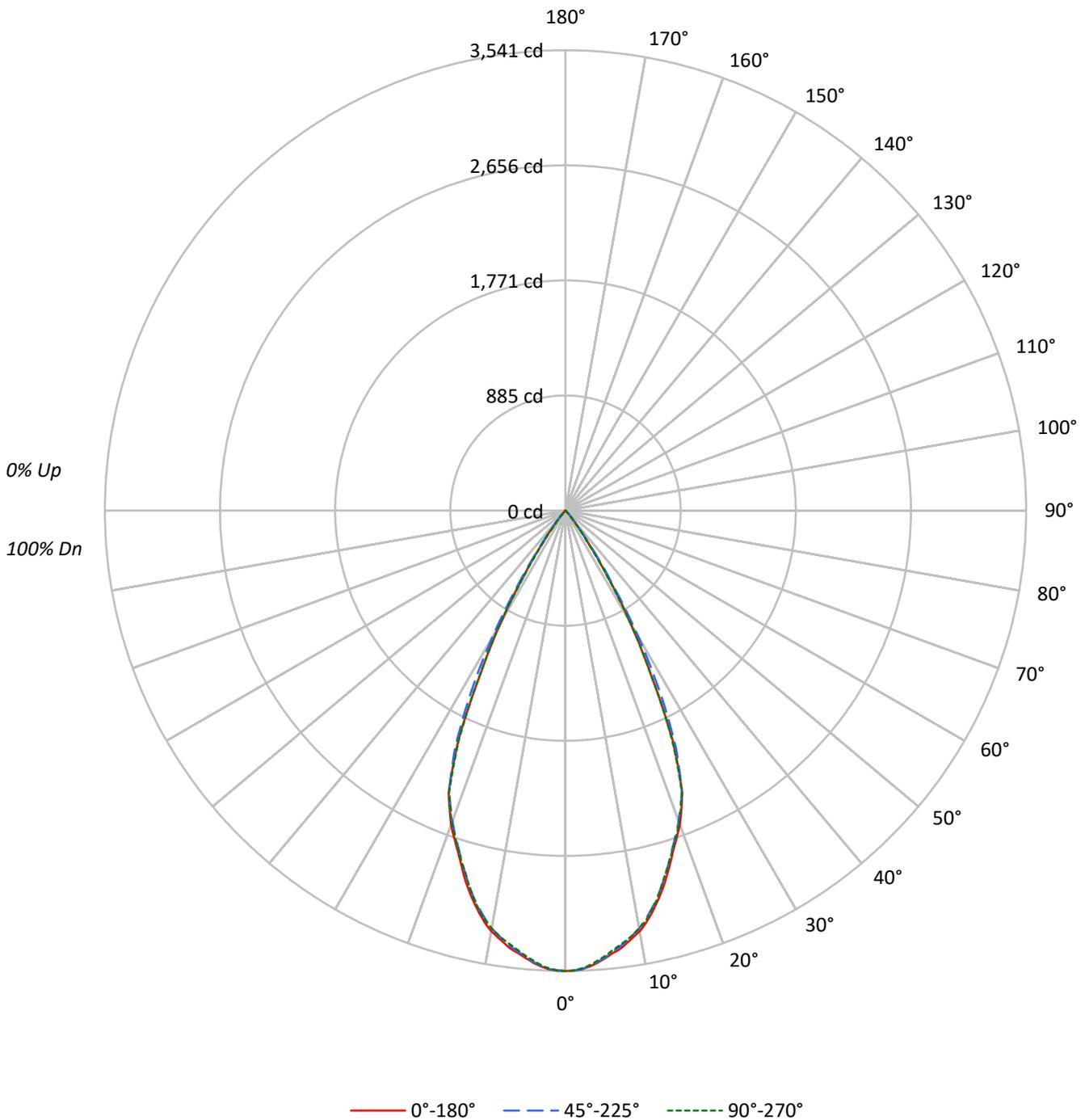
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2282.0 lumens
Efficiency: N/A
Efficacy: 83.3 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): 27.4
Input Voltage (V): NR
Input Current (A_{in}): 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 | | | 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 | 79 | 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° | 609840 | 609840 | 609840 |
| 5° | 597890 | 596766 | 595089 |
| 10° | 574496 | 570527 | 570807 |
| 15° | 527388 | 522467 | 521896 |
| 20° | 471146 | 466106 | 468489 |
| 25° | 370305 | 381079 | 367227 |
| 30° | 198110 | 221954 | 198766 |
| 35° | 64713 | 75604 | 60971 |
| 40° | 16030 | 20032 | 15288 |
| 45° | 1973 | 7112 | 1973 |
| 50° | 1313 | 2170 | 1313 |
| 55° | 1471 | 1471 | 1471 |
| 60° | 1102 | 1102 | 1102 |
| 65° | 1304 | 1304 | 1304 |
| 70° | 806 | 806 | 806 |
| 75° | 1065 | 1065 | 1065 |
| 80° | 1587 | 1587 | 1587 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 7112 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 323.8 | 14.2 |
| 10°-20° | 818.9 | 35.9 |
| 20°-30° | 861.3 | 37.7 |
| 30°-40° | 248.2 | 10.9 |
| 40°-50° | 20.2 | 0.9 |
| 50°-60° | 4.4 | 0.2 |
| 60°-70° | 3.1 | 0.1 |
| 70°-80° | 1.7 | 0.1 |
| 80°-90° | 0.4 | 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° | 2004.0 | 87.8 |
| 0°-40° | 2252.2 | 98.7 |
| 0°-60° | 2276.8 | 99.8 |
| 0°-90° | 2282.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2282.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3541 | 3541 | 3541 | 3541 | 3541 | |
| 5° | 3458 | 3457 | 3452 | 3455 | 3442 | 325 |
| 15° | 2958 | 2938 | 2930 | 2930 | 2927 | 824 |
| 25° | 1949 | 1997 | 2005 | 1983 | 1932 | 844 |
| 35° | 308 | 319 | 360 | 308 | 290 | 238 |
| 45° | 8 | 16 | 29 | 16 | 8 | 15 |
| 55° | 5 | 5 | 5 | 5 | 5 | 4 |
| 65° | 3 | 3 | 3 | 3 | 3 | 3 |
| 75° | 2 | 2 | 2 | 2 | 2 | 2 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P1320452

CATALOG NUMBER: LDSQA3D20R509840D010 3LSQCDR1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3541.0 | 3541.0 | 3541.0 | 3541.0 | 3541.0 |
| 1° | 3539.4 | 3542.7 | 3536.2 | 3547.5 | 3537.8 |
| 2° | 3531.3 | 3532.9 | 3529.7 | 3537.8 | 3524.8 |
| 3° | 3511.9 | 3515.1 | 3508.6 | 3515.1 | 3503.8 |
| 4° | 3489.2 | 3489.2 | 3482.7 | 3487.6 | 3473.0 |
| 5° | 3458.4 | 3456.8 | 3451.9 | 3455.2 | 3442.2 |
| 6° | 3426.0 | 3424.4 | 3416.3 | 3416.3 | 3406.6 |
| 7° | 3401.7 | 3390.4 | 3383.9 | 3382.3 | 3372.6 |
| 8° | 3362.9 | 3359.6 | 3346.7 | 3346.7 | 3340.2 |
| 9° | 3324.0 | 3320.7 | 3306.2 | 3309.4 | 3304.5 |
| 10° | 3285.1 | 3273.8 | 3262.4 | 3264.0 | 3264.0 |
| 11° | 3233.3 | 3223.5 | 3207.3 | 3213.8 | 3217.1 |
| 12° | 3171.7 | 3160.4 | 3145.8 | 3158.7 | 3157.1 |
| 13° | 3103.7 | 3094.0 | 3082.6 | 3092.3 | 3089.1 |
| 14° | 3032.4 | 3017.8 | 3008.1 | 3014.6 | 3011.3 |
| 15° | 2957.9 | 2938.4 | 2930.3 | 2930.3 | 2927.1 |
| 17.5° | 2748.9 | 2737.6 | 2729.5 | 2724.6 | 2736.0 |
| 20° | 2570.7 | 2561.0 | 2543.2 | 2548.1 | 2556.2 |
| 22.5° | 2347.2 | 2345.6 | 2335.9 | 2327.8 | 2337.5 |
| 25° | 1948.7 | 1997.3 | 2005.4 | 1982.7 | 1932.5 |
| 27.5° | 1415.8 | 1529.2 | 1569.7 | 1516.2 | 1423.9 |
| 30° | 996.2 | 1049.7 | 1116.1 | 1010.8 | 999.5 |
| 32.5° | 601.0 | 615.6 | 677.1 | 604.2 | 588.0 |
| 35° | 307.8 | 319.1 | 359.6 | 307.8 | 290.0 |
| 37.5° | 144.2 | 150.6 | 166.8 | 144.2 | 134.4 |
| 40° | 71.3 | 79.4 | 89.1 | 74.5 | 68.0 |
| 42.5° | 30.8 | 40.5 | 51.8 | 38.9 | 27.5 |
| 45° | 8.1 | 16.2 | 29.2 | 16.2 | 8.1 |
| 47.5° | 4.9 | 6.5 | 16.2 | 6.5 | 4.9 |
| 50° | 4.9 | 4.9 | 8.1 | 4.9 | 4.9 |
| 52.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 55° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 57.5° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| 60° | 3.2 | 4.9 | 3.2 | 4.9 | 3.2 |
| 62.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 65° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 67.5° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 70° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 72.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 75° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 77.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 80° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 82.5° | 0.0 | 1.6 | 0.0 | 1.6 | 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)