

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: P1320450

Luminaire Tested: LDSQA3D20R509840D010 3LSQCDR1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R509840D010 3LSQCDR1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCDR1MB TRIM
Light Source: -
Ballast/Driver: -

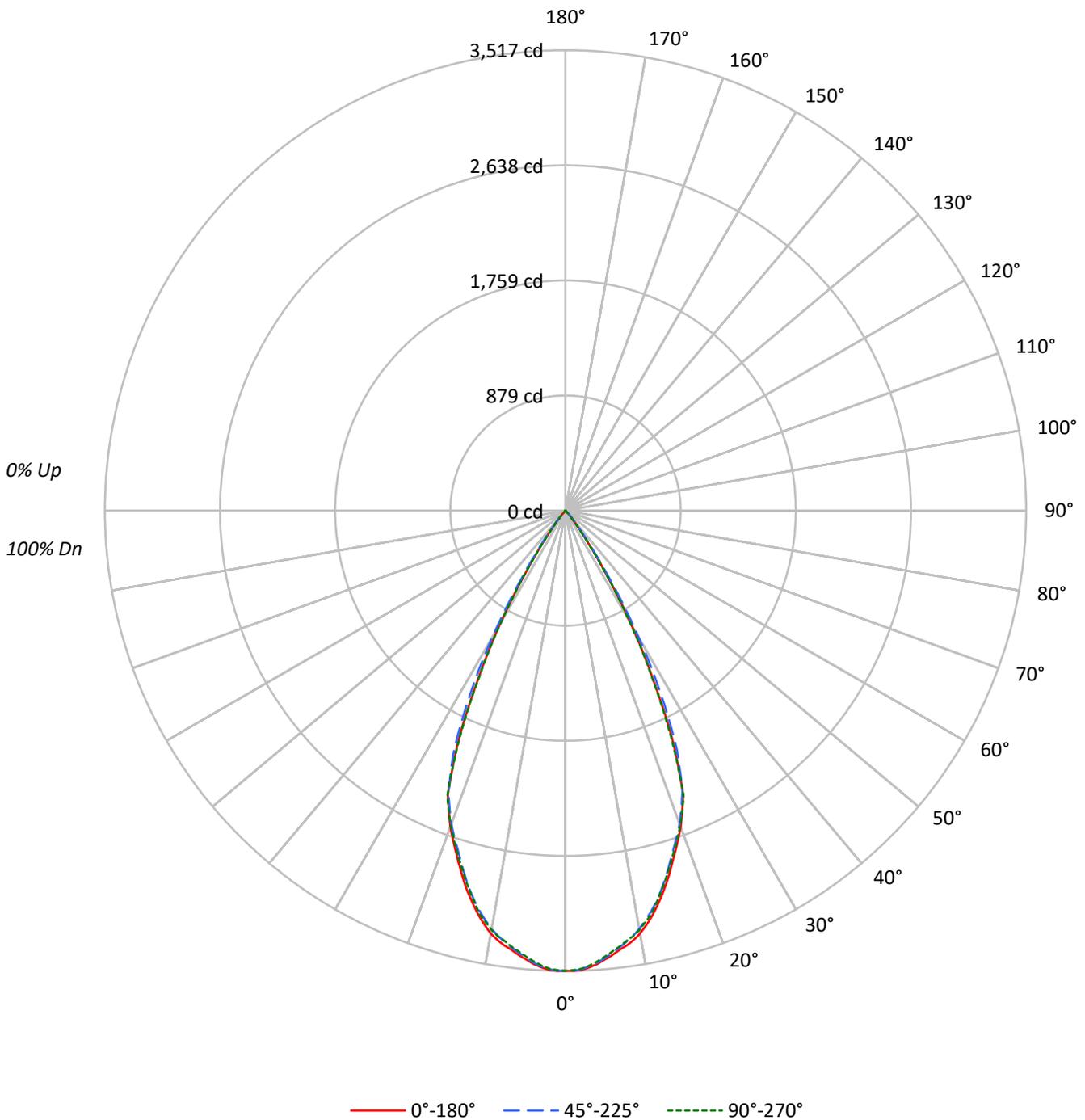
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2264.0 lumens
Efficiency: N/A
Efficacy: 82.6 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 (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

TEST NUMBER: P1320450
CATALOG NUMBER: LDSQA3D20R509840D010 3LSQCDR1MB

Luminous Intensity Polar Plot





TEST NUMBER: P1320450

CATALOG NUMBER: LDSQA3D20R509840D010 3LSQCDR1MB

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 | 110 | 108 | 106 | 106 | 104 | 102 | 102 | 101 | 99 | 98 | 97 | 97 | 97 | 97 | 97 | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 98 | 95 | 97 | 95 | 93 | 95 | 93 | 91 | 91 | 91 | 91 | 90 |
| 3 | 105 | 99 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 92 | 89 | 93 | 90 | 88 | 91 | 88 | 86 | 86 | 86 | 86 | 85 |
| 4 | 100 | 94 | 89 | 85 | 99 | 93 | 88 | 85 | 90 | 87 | 84 | 89 | 85 | 83 | 87 | 84 | 82 | 82 | 82 | 82 | 80 |
| 5 | 96 | 89 | 84 | 80 | 95 | 88 | 83 | 79 | 86 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 77 | 77 | 77 | 76 |
| 6 | 92 | 84 | 79 | 75 | 91 | 83 | 79 | 75 | 82 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 73 | 73 | 73 | 72 |
| 7 | 88 | 80 | 75 | 71 | 87 | 79 | 74 | 71 | 78 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 70 | 70 | 70 | 70 | 69 |
| 8 | 85 | 76 | 71 | 67 | 83 | 76 | 71 | 67 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 66 | 66 | 66 | 65 |
| 9 | 81 | 73 | 67 | 64 | 80 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 70 | 66 | 63 | 63 | 63 | 63 | 62 |
| 10 | 78 | 69 | 64 | 61 | 77 | 69 | 64 | 61 | 68 | 64 | 60 | 67 | 63 | 60 | 67 | 63 | 60 | 60 | 60 | 60 | 59 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 605500 | 605500 | 605500 |
| 5° | 594934 | 593257 | 591580 |
| 10° | 573779 | 567536 | 568673 |
| 15° | 527816 | 521183 | 522627 |
| 20° | 471330 | 466876 | 469534 |
| 25° | 366827 | 382201 | 362818 |
| 30° | 198706 | 221894 | 195167 |
| 35° | 62653 | 74574 | 61286 |
| 40° | 13826 | 19290 | 13107 |
| 45° | 390 | 5918 | 390 |
| 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: 5918 cd/sqm



TEST NUMBER: P1320450
 CATALOG NUMBER: LDSQA3D20R509840D010 3LSQCDR1MB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 322.1 | 14.2 |
| 10°-20° | 818.4 | 36.1 |
| 20°-30° | 862.0 | 38.1 |
| 30°-40° | 246.2 | 10.9 |
| 40°-50° | 15.2 | 0.7 |
| 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 |
| 0°-30° | 2002.5 | 88.4 |
| 0°-40° | 2248.7 | 99.3 |
| 0°-60° | 2264.0 | 100.0 |
| 0°-90° | 2264.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2264.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3516 | 3516 | 3516 | 3516 | 3516 | |
| 5° | 3441 | 3438 | 3432 | 3428 | 3422 | 324 |
| 15° | 2960 | 2941 | 2923 | 2928 | 2931 | 825 |
| 25° | 1930 | 2002 | 2011 | 1989 | 1909 | 844 |
| 35° | 298 | 319 | 355 | 301 | 292 | 232 |
| 45° | 2 | 8 | 24 | 8 | 2 | 9 |
| 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 | 0 |



TEST NUMBER: P1320450

CATALOG NUMBER: LDSQA3D20R509840D010 3LSQCDR1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3515.8 | 3515.8 | 3515.8 | 3515.8 | 3515.8 |
| 1° | 3517.4 | 3519.0 | 3515.8 | 3519.0 | 3510.9 |
| 2° | 3512.6 | 3509.3 | 3506.1 | 3507.7 | 3502.8 |
| 3° | 3494.7 | 3493.1 | 3486.6 | 3488.3 | 3481.8 |
| 4° | 3472.1 | 3467.2 | 3462.4 | 3459.1 | 3452.6 |
| 5° | 3441.3 | 3438.1 | 3431.6 | 3428.3 | 3421.9 |
| 6° | 3415.4 | 3408.9 | 3397.6 | 3394.3 | 3387.9 |
| 7° | 3381.4 | 3378.1 | 3363.6 | 3360.3 | 3357.1 |
| 8° | 3355.5 | 3345.8 | 3327.9 | 3329.6 | 3321.5 |
| 9° | 3321.5 | 3308.5 | 3290.7 | 3290.7 | 3292.3 |
| 10° | 3281.0 | 3261.5 | 3245.3 | 3250.2 | 3251.8 |
| 11° | 3227.5 | 3214.6 | 3190.3 | 3201.6 | 3201.6 |
| 12° | 3169.2 | 3153.0 | 3135.2 | 3144.9 | 3151.4 |
| 13° | 3101.2 | 3088.3 | 3072.1 | 3081.8 | 3078.5 |
| 14° | 3034.8 | 3010.5 | 2999.2 | 3012.1 | 3007.3 |
| 15° | 2960.3 | 2940.9 | 2923.1 | 2927.9 | 2931.2 |
| 17.5° | 2761.1 | 2740.1 | 2727.1 | 2728.7 | 2743.3 |
| 20° | 2571.7 | 2563.6 | 2547.4 | 2553.8 | 2561.9 |
| 22.5° | 2348.2 | 2351.4 | 2332.0 | 2336.8 | 2356.3 |
| 25° | 1930.4 | 2001.6 | 2011.3 | 1988.7 | 1909.3 |
| 27.5° | 1430.0 | 1536.8 | 1569.2 | 1517.4 | 1420.2 |
| 30° | 999.2 | 1028.3 | 1115.8 | 1017.0 | 981.4 |
| 32.5° | 586.2 | 630.0 | 676.9 | 608.9 | 584.6 |
| 35° | 298.0 | 319.0 | 354.7 | 301.2 | 291.5 |
| 37.5° | 137.7 | 147.4 | 161.9 | 137.7 | 129.6 |
| 40° | 61.5 | 72.9 | 85.8 | 69.6 | 58.3 |
| 42.5° | 19.4 | 34.0 | 45.3 | 30.8 | 17.8 |
| 45° | 1.6 | 8.1 | 24.3 | 8.1 | 1.6 |
| 47.5° | 0.0 | 1.6 | 9.7 | 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 |



TEST NUMBER: P1320450
CATALOG NUMBER: LDSQA3D20R509840D010 3LSQCDR1MB

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)