

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: P1308469

Luminaire Tested: LDSQA3D20R459027D010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R459027D010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

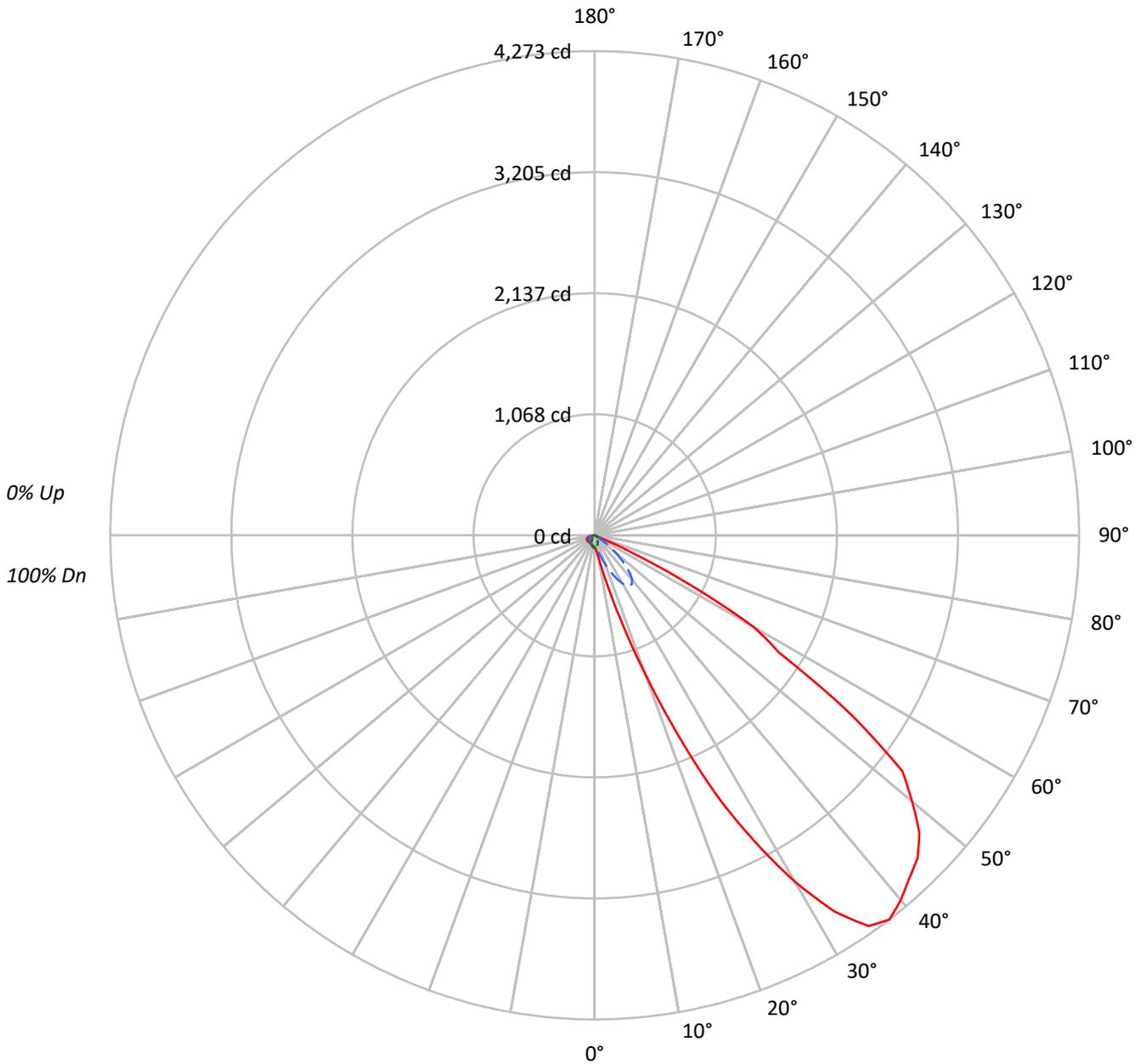
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1909.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
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_{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



— 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 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | 88 | 88 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 75 | 75 | 75 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 63 | 63 | 63 | 61 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 53 | 53 | 53 | 51 |
| 5 | 76 | 63 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 45 | 45 | 45 | 43 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 38 | 38 | 38 | 36 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 33 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 33 | 33 | 33 | 31 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 42 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 28 | 28 | 28 | 26 |
| 9 | 53 | 39 | 31 | 25 | 52 | 39 | 30 | 25 | 38 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 24 | 24 | 24 | 22 |
| 10 | 49 | 36 | 27 | 22 | 48 | 35 | 27 | 22 | 34 | 27 | 21 | 33 | 26 | 21 | 32 | 26 | 21 | 21 | 21 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 19013 | 19013 | 19013 | 19013 | 19013 |
| 5° | 22630 | 21005 | 18809 | 17461 | 17461 |
| 10° | 36130 | 24553 | 17663 | 16544 | 16544 |
| 15° | 90005 | 32914 | 16029 | 15476 | 16029 |
| 20° | 237049 | 49154 | 13874 | 14735 | 15615 |
| 25° | 475979 | 72837 | 11991 | 13796 | 15278 |
| 30° | 701717 | 97563 | 9725 | 13483 | 15690 |
| 35° | 885132 | 114415 | 8284 | 13266 | 16252 |
| 40° | 944359 | 115603 | 7442 | 13826 | 17379 |
| 45° | 981204 | 96425 | 6917 | 14979 | 18827 |
| 50° | 979636 | 67197 | 6752 | 16049 | 21140 |
| 55° | 832624 | 29846 | 7116 | 17986 | 23210 |
| 60° | 559620 | 5993 | 7061 | 20116 | 26626 |
| 65° | 148498 | 2567 | 7091 | 21843 | 30197 |
| 70° | 3978 | 3172 | 7150 | 23818 | 34140 |
| 75° | 3127 | 3127 | 7320 | 25219 | 38860 |
| 80° | 3174 | 4661 | 7835 | 26580 | 43837 |
| 85° | 3162 | 6323 | 12449 | 28060 | 43670 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 1006457 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 11.0 | 0.6 |
| 10°-20° | 53.9 | 2.8 |
| 20°-30° | 222.1 | 11.6 |
| 30°-40° | 468.0 | 24.5 |
| 40°-50° | 577.4 | 30.2 |
| 50°-60° | 432.8 | 22.7 |
| 60°-70° | 111.4 | 5.8 |
| 70°-80° | 23.1 | 1.2 |
| 80°-90° | 9.4 | 0.5 |
| 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° | 286.9 | 15.0 |
| 0°-40° | 754.9 | 39.5 |
| 0°-60° | 1765.2 | 92.5 |
| 0°-90° | 1909.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1909.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 110 | 110 | 110 | 110 | 110 | |
| 5° | 131 | 122 | 109 | 101 | 101 | 15 |
| 15° | 505 | 185 | 90 | 87 | 90 | 185 |
| 25° | 2505 | 383 | 63 | 73 | 80 | 1167 |
| 35° | 4210 | 544 | 39 | 63 | 77 | 2566 |
| 45° | 4029 | 396 | 28 | 62 | 77 | 3083 |
| 55° | 2773 | 99 | 24 | 60 | 77 | 2394 |
| 65° | 364 | 6 | 17 | 54 | 74 | 525 |
| 75° | 5 | 5 | 11 | 38 | 58 | 6 |
| 85° | 2 | 3 | 6 | 14 | 22 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1308469

CATALOG NUMBER: LDSQA3D20R459027D010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| 0° | 110.4 | 110.4 | 110.4 | 110.4 | 110.4 | 110.4 | 110.4 | 110.4 | 110.4 | 110.4 | 110.4 |
| 2.5° | 116.7 | 116.7 | 116.7 | 116.7 | 116.7 | 116.7 | 116.7 | 115.1 | 113.6 | 110.4 | 107.3 |
| 5° | 130.9 | 129.3 | 129.3 | 129.3 | 127.8 | 126.2 | 126.2 | 121.5 | 115.1 | 108.8 | 104.1 |
| 7.5° | 154.6 | 154.6 | 153.0 | 149.8 | 148.3 | 145.1 | 142.0 | 129.3 | 115.1 | 105.7 | 99.4 |
| 10° | 206.6 | 203.5 | 198.7 | 195.6 | 187.7 | 176.7 | 168.8 | 140.4 | 113.6 | 101.0 | 96.2 |
| 12.5° | 309.2 | 315.5 | 299.7 | 283.9 | 261.8 | 241.3 | 216.1 | 159.3 | 113.6 | 96.2 | 91.5 |
| 15° | 504.8 | 515.8 | 485.8 | 454.3 | 400.6 | 350.2 | 302.9 | 184.6 | 110.4 | 89.9 | 85.2 |
| 17.5° | 825.0 | 839.2 | 788.7 | 714.5 | 630.9 | 530.0 | 443.2 | 219.3 | 107.3 | 83.6 | 80.4 |
| 20° | 1293.4 | 1291.9 | 1194.1 | 1101.0 | 940.1 | 791.8 | 629.4 | 268.2 | 102.5 | 75.7 | 75.7 |
| 22.5° | 1869.2 | 1875.5 | 1755.6 | 1588.4 | 1359.7 | 1121.5 | 862.8 | 324.9 | 96.2 | 69.4 | 71.0 |
| 25° | 2504.8 | 2451.2 | 2309.3 | 2105.8 | 1814.0 | 1484.3 | 1143.6 | 383.3 | 89.9 | 63.1 | 66.2 |
| 27.5° | 3034.8 | 2982.8 | 2820.3 | 2579.0 | 2265.1 | 1873.9 | 1429.1 | 441.7 | 82.0 | 56.8 | 61.5 |
| 30° | 3528.6 | 3462.3 | 3266.7 | 2993.8 | 2620.0 | 2197.3 | 1697.2 | 490.6 | 72.6 | 48.9 | 56.8 |
| 32.5° | 3935.5 | 3875.6 | 3653.2 | 3336.1 | 2929.2 | 2474.9 | 1924.4 | 528.4 | 63.1 | 44.2 | 53.6 |
| 35° | 4210.0 | 4148.5 | 3943.4 | 3594.8 | 3151.6 | 2676.8 | 2108.9 | 544.2 | 55.2 | 39.4 | 52.1 |
| 37.5° | 4273.1 | 4239.9 | 4093.3 | 3766.7 | 3304.6 | 2806.1 | 2227.2 | 539.5 | 45.7 | 36.3 | 48.9 |
| 40° | 4200.5 | 4208.4 | 4139.0 | 3867.7 | 3386.6 | 2861.3 | 2276.1 | 514.2 | 37.9 | 33.1 | 47.3 |
| 42.5° | 4107.4 | 4128.0 | 4123.2 | 3908.7 | 3421.3 | 2864.5 | 2255.6 | 463.7 | 30.0 | 30.0 | 45.7 |
| 45° | 4028.6 | 4049.1 | 4077.5 | 3891.3 | 3397.6 | 2823.5 | 2191.0 | 395.9 | 22.1 | 28.4 | 45.7 |
| 47.5° | 3885.0 | 3907.1 | 3948.1 | 3752.5 | 3277.8 | 2717.8 | 2074.2 | 321.8 | 15.8 | 26.8 | 44.2 |
| 50° | 3656.3 | 3667.4 | 3656.3 | 3437.1 | 3047.5 | 2547.4 | 1884.9 | 250.8 | 11.0 | 25.2 | 44.2 |
| 52.5° | 3421.3 | 3399.2 | 3307.7 | 3030.1 | 2681.5 | 2277.7 | 1646.8 | 178.2 | 7.9 | 23.7 | 42.6 |
| 55° | 2773.0 | 2738.3 | 2670.5 | 2500.1 | 2301.4 | 1946.5 | 1331.3 | 99.4 | 7.9 | 23.7 | 41.0 |
| 57.5° | 1932.3 | 1951.2 | 1974.9 | 1940.2 | 1848.7 | 1533.2 | 1011.1 | 44.2 | 7.9 | 22.1 | 41.0 |
| 60° | 1624.7 | 1608.9 | 1610.5 | 1588.4 | 1437.0 | 1118.3 | 695.6 | 17.4 | 7.9 | 20.5 | 39.4 |
| 62.5° | 970.1 | 981.1 | 1001.6 | 1006.4 | 856.5 | 624.6 | 364.4 | 7.9 | 7.9 | 18.9 | 37.9 |
| 65° | 364.4 | 381.7 | 334.4 | 290.2 | 230.3 | 168.8 | 85.2 | 6.3 | 9.5 | 17.4 | 34.7 |
| 67.5° | 11.0 | 12.6 | 15.8 | 14.2 | 14.2 | 12.6 | 9.5 | 6.3 | 9.5 | 15.8 | 33.1 |
| 70° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 6.3 | 6.3 | 6.3 | 7.9 | 14.2 | 30.0 |
| 72.5° | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 7.9 | 12.6 | 26.8 |
| 75° | 4.7 | 6.3 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 7.9 | 11.0 | 22.1 |
| 77.5° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 6.3 | 9.5 | 18.9 |
| 80° | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 4.7 | 6.3 | 7.9 | 15.8 |
| 82.5° | 3.2 | 3.2 | 3.2 | 1.6 | 3.2 | 3.2 | 3.2 | 3.2 | 6.3 | 6.3 | 12.6 |
| 85° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 3.2 | 4.7 | 6.3 | 7.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 1.6 | 1.6 | 3.2 | 4.7 | 4.7 | 4.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|-------|--------|-------|
| 0° | 110.4 | 110.4 | 110.4 |
| 2.5° | 104.1 | 104.1 | 104.1 |
| 5° | 101.0 | 101.0 | 101.0 |
| 7.5° | 97.8 | 97.8 | 97.8 |
| 10° | 94.6 | 94.6 | 94.6 |
| 12.5° | 91.5 | 91.5 | 93.1 |
| 15° | 86.8 | 89.9 | 89.9 |
| 17.5° | 83.6 | 86.8 | 88.3 |
| 20° | 80.4 | 83.6 | 85.2 |
| 22.5° | 75.7 | 80.4 | 83.6 |
| 25° | 72.6 | 78.9 | 80.4 |
| 27.5° | 69.4 | 77.3 | 80.4 |
| 30° | 67.8 | 75.7 | 78.9 |
| 32.5° | 64.7 | 74.1 | 77.3 |
| 35° | 63.1 | 74.1 | 77.3 |
| 37.5° | 63.1 | 72.6 | 77.3 |
| 40° | 61.5 | 72.6 | 77.3 |
| 42.5° | 61.5 | 72.6 | 77.3 |
| 45° | 61.5 | 72.6 | 77.3 |
| 47.5° | 59.9 | 72.6 | 78.9 |
| 50° | 59.9 | 74.1 | 78.9 |
| 52.5° | 59.9 | 74.1 | 78.9 |
| 55° | 59.9 | 74.1 | 77.3 |
| 57.5° | 58.4 | 72.6 | 77.3 |
| 60° | 58.4 | 72.6 | 77.3 |
| 62.5° | 55.2 | 71.0 | 75.7 |
| 65° | 53.6 | 69.4 | 74.1 |
| 67.5° | 50.5 | 67.8 | 71.0 |
| 70° | 47.3 | 63.1 | 67.8 |
| 72.5° | 42.6 | 59.9 | 64.7 |
| 75° | 37.9 | 55.2 | 58.4 |
| 77.5° | 33.1 | 48.9 | 52.1 |
| 80° | 26.8 | 41.0 | 44.2 |
| 82.5° | 20.5 | 31.5 | 33.1 |
| 85° | 14.2 | 20.5 | 22.1 |
| 87.5° | 6.3 | 9.5 | 11.0 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)