

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: P1311195

Luminaire Tested: LDSQA3D05R459040DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311195
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: LDSQA3D05R459040DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

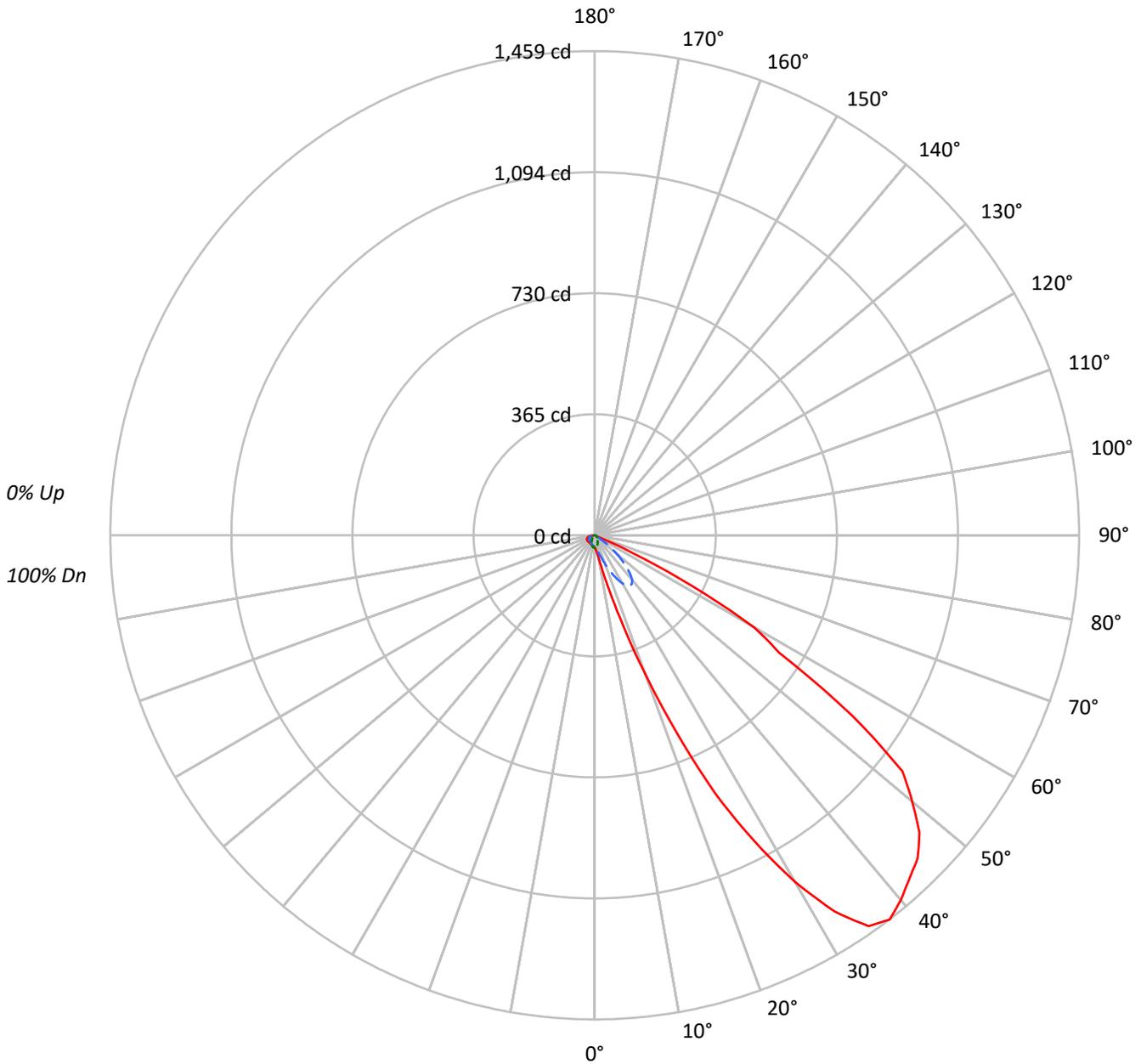
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 652.0 lumens
Efficiency: N/A
Efficacy: 90.6 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): 7.2
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

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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° | 6493 | 6493 | 6493 | 6493 | 6493 |
| 5° | 7728 | 7175 | 6431 | 5964 | 5964 |
| 10° | 12346 | 8377 | 6033 | 5649 | 5649 |
| 15° | 30739 | 11233 | 5474 | 5278 | 5474 |
| 20° | 80971 | 16788 | 4747 | 5040 | 5333 |
| 25° | 162568 | 24874 | 4086 | 4713 | 5226 |
| 30° | 239653 | 33310 | 3321 | 4614 | 5349 |
| 35° | 302311 | 39085 | 2838 | 4520 | 5550 |
| 40° | 322528 | 39479 | 2540 | 4721 | 5935 |
| 45° | 335114 | 32929 | 2363 | 5115 | 6430 |
| 50° | 334592 | 22962 | 2304 | 5493 | 7207 |
| 55° | 284377 | 10179 | 2432 | 6155 | 7927 |
| 60° | 191133 | 2032 | 2411 | 6854 | 9093 |
| 65° | 50695 | 897 | 2404 | 7457 | 10310 |
| 70° | 1360 | 1108 | 2417 | 8157 | 11682 |
| 75° | 1065 | 1065 | 2529 | 8584 | 13242 |
| 80° | 1091 | 1587 | 2678 | 9124 | 14976 |
| 85° | 988 | 2174 | 4347 | 9485 | 14820 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 343736 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 3.7 | 0.6 |
| 10°-20° | 18.4 | 2.8 |
| 20°-30° | 75.8 | 11.6 |
| 30°-40° | 159.8 | 24.5 |
| 40°-50° | 197.2 | 30.2 |
| 50°-60° | 147.8 | 22.7 |
| 60°-70° | 38.0 | 5.8 |
| 70°-80° | 7.9 | 1.2 |
| 80°-90° | 3.2 | 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° | 98.0 | 15.0 |
| 0°-40° | 257.8 | 39.5 |
| 0°-60° | 602.9 | 92.5 |
| 0°-90° | 652.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 652.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 38 | 38 | 38 | 38 | 38 | |
| 5° | 45 | 42 | 37 | 34 | 34 | 5 |
| 15° | 172 | 63 | 31 | 30 | 31 | 63 |
| 25° | 856 | 131 | 22 | 25 | 28 | 399 |
| 35° | 1438 | 186 | 14 | 22 | 26 | 876 |
| 45° | 1376 | 135 | 10 | 21 | 26 | 1053 |
| 55° | 947 | 34 | 8 | 20 | 26 | 818 |
| 65° | 124 | 2 | 6 | 18 | 25 | 179 |
| 75° | 2 | 2 | 4 | 13 | 20 | 2 |
| 85° | 0 | 1 | 2 | 5 | 8 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1311195

CATALOG NUMBER: LDSQA3D05R459040DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|--------|
| 0° | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 | 37.7 |
| 2.5° | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 | 39.3 | 38.8 | 37.7 | 36.6 |
| 5° | 44.7 | 44.2 | 44.2 | 44.2 | 43.6 | 43.1 | 43.1 | 41.5 | 39.3 | 37.2 | 35.6 |
| 7.5° | 52.8 | 52.8 | 52.3 | 51.2 | 50.6 | 49.6 | 48.5 | 44.2 | 39.3 | 36.1 | 33.9 |
| 10° | 70.6 | 69.5 | 67.9 | 66.8 | 64.1 | 60.3 | 57.6 | 47.9 | 38.8 | 34.5 | 32.9 |
| 12.5° | 105.6 | 107.7 | 102.4 | 97.0 | 89.4 | 82.4 | 73.8 | 54.4 | 38.8 | 32.9 | 31.2 |
| 15° | 172.4 | 176.2 | 165.9 | 155.2 | 136.8 | 119.6 | 103.4 | 63.0 | 37.7 | 30.7 | 29.1 |
| 17.5° | 281.8 | 286.6 | 269.4 | 244.0 | 215.5 | 181.0 | 151.4 | 74.9 | 36.6 | 28.6 | 27.5 |
| 20° | 441.8 | 441.2 | 407.8 | 376.0 | 321.1 | 270.4 | 215.0 | 91.6 | 35.0 | 25.9 | 25.9 |
| 22.5° | 638.4 | 640.6 | 599.6 | 542.5 | 464.4 | 383.0 | 294.7 | 111.0 | 32.9 | 23.7 | 24.2 |
| 25° | 855.5 | 837.2 | 788.7 | 719.2 | 619.5 | 506.9 | 390.6 | 130.9 | 30.7 | 21.5 | 22.6 |
| 27.5° | 1036.5 | 1018.7 | 963.3 | 880.8 | 773.6 | 640.0 | 488.1 | 150.8 | 28.0 | 19.4 | 21.0 |
| 30° | 1205.1 | 1182.5 | 1115.7 | 1022.5 | 894.8 | 750.5 | 579.7 | 167.5 | 24.8 | 16.7 | 19.4 |
| 32.5° | 1344.1 | 1323.7 | 1247.7 | 1139.4 | 1000.4 | 845.3 | 657.3 | 180.5 | 21.5 | 15.1 | 18.3 |
| 35° | 1437.9 | 1416.9 | 1346.8 | 1227.8 | 1076.4 | 914.2 | 720.3 | 185.9 | 18.9 | 13.5 | 17.8 |
| 37.5° | 1459.4 | 1448.1 | 1398.0 | 1286.5 | 1128.6 | 958.4 | 760.7 | 184.2 | 15.6 | 12.4 | 16.7 |
| 40° | 1434.6 | 1437.3 | 1413.6 | 1321.0 | 1156.7 | 977.3 | 777.4 | 175.6 | 12.9 | 11.3 | 16.2 |
| 42.5° | 1402.9 | 1409.9 | 1408.2 | 1335.0 | 1168.5 | 978.3 | 770.4 | 158.4 | 10.2 | 10.2 | 15.6 |
| 45° | 1375.9 | 1382.9 | 1392.6 | 1329.1 | 1160.4 | 964.3 | 748.3 | 135.2 | 7.5 | 9.7 | 15.6 |
| 47.5° | 1326.9 | 1334.4 | 1348.4 | 1281.6 | 1119.5 | 928.2 | 708.4 | 109.9 | 5.4 | 9.2 | 15.1 |
| 50° | 1248.8 | 1252.6 | 1248.8 | 1173.9 | 1040.8 | 870.1 | 643.8 | 85.7 | 3.8 | 8.6 | 15.1 |
| 52.5° | 1168.5 | 1161.0 | 1129.7 | 1034.9 | 915.8 | 777.9 | 562.4 | 60.9 | 2.7 | 8.1 | 14.5 |
| 55° | 947.1 | 935.2 | 912.1 | 853.9 | 786.0 | 664.8 | 454.7 | 33.9 | 2.7 | 8.1 | 14.0 |
| 57.5° | 659.9 | 666.4 | 674.5 | 662.6 | 631.4 | 523.6 | 345.3 | 15.1 | 2.7 | 7.5 | 14.0 |
| 60° | 554.9 | 549.5 | 550.0 | 542.5 | 490.8 | 382.0 | 237.6 | 5.9 | 2.7 | 7.0 | 13.5 |
| 62.5° | 331.3 | 335.1 | 342.1 | 343.7 | 292.5 | 213.3 | 124.4 | 2.7 | 2.7 | 6.5 | 12.9 |
| 65° | 124.4 | 130.4 | 114.2 | 99.1 | 78.7 | 57.6 | 29.1 | 2.2 | 3.2 | 5.9 | 11.9 |
| 67.5° | 3.8 | 4.3 | 5.4 | 4.8 | 4.8 | 4.3 | 3.2 | 2.2 | 3.2 | 5.4 | 11.3 |
| 70° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.2 | 2.2 | 2.2 | 2.7 | 4.8 | 10.2 |
| 72.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.7 | 4.3 | 9.2 |
| 75° | 1.6 | 2.2 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 2.7 | 3.8 | 7.5 |
| 77.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 2.2 | 3.2 | 6.5 |
| 80° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.6 | 2.2 | 2.7 | 5.4 |
| 82.5° | 1.1 | 1.1 | 1.1 | 0.5 | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 4.3 |
| 85° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.1 | 1.6 | 2.2 | 2.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 1.1 | 1.6 | 1.6 | 1.6 |
| 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° | 37.7 | 37.7 | 37.7 |
| 2.5° | 35.6 | 35.6 | 35.6 |
| 5° | 34.5 | 34.5 | 34.5 |
| 7.5° | 33.4 | 33.4 | 33.4 |
| 10° | 32.3 | 32.3 | 32.3 |
| 12.5° | 31.2 | 31.2 | 31.8 |
| 15° | 29.6 | 30.7 | 30.7 |
| 17.5° | 28.6 | 29.6 | 30.2 |
| 20° | 27.5 | 28.6 | 29.1 |
| 22.5° | 25.9 | 27.5 | 28.6 |
| 25° | 24.8 | 26.9 | 27.5 |
| 27.5° | 23.7 | 26.4 | 27.5 |
| 30° | 23.2 | 25.9 | 26.9 |
| 32.5° | 22.1 | 25.3 | 26.4 |
| 35° | 21.5 | 25.3 | 26.4 |
| 37.5° | 21.5 | 24.8 | 26.4 |
| 40° | 21.0 | 24.8 | 26.4 |
| 42.5° | 21.0 | 24.8 | 26.4 |
| 45° | 21.0 | 24.8 | 26.4 |
| 47.5° | 20.5 | 24.8 | 26.9 |
| 50° | 20.5 | 25.3 | 26.9 |
| 52.5° | 20.5 | 25.3 | 26.9 |
| 55° | 20.5 | 25.3 | 26.4 |
| 57.5° | 19.9 | 24.8 | 26.4 |
| 60° | 19.9 | 24.8 | 26.4 |
| 62.5° | 18.9 | 24.2 | 25.9 |
| 65° | 18.3 | 23.7 | 25.3 |
| 67.5° | 17.2 | 23.2 | 24.2 |
| 70° | 16.2 | 21.5 | 23.2 |
| 72.5° | 14.5 | 20.5 | 22.1 |
| 75° | 12.9 | 18.9 | 19.9 |
| 77.5° | 11.3 | 16.7 | 17.8 |
| 80° | 9.2 | 14.0 | 15.1 |
| 82.5° | 7.0 | 10.8 | 11.3 |
| 85° | 4.8 | 7.0 | 7.5 |
| 87.5° | 2.2 | 3.2 | 3.8 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)