

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: P1314869

Luminaire Tested: LDSQA3D17R659730DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R659730DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

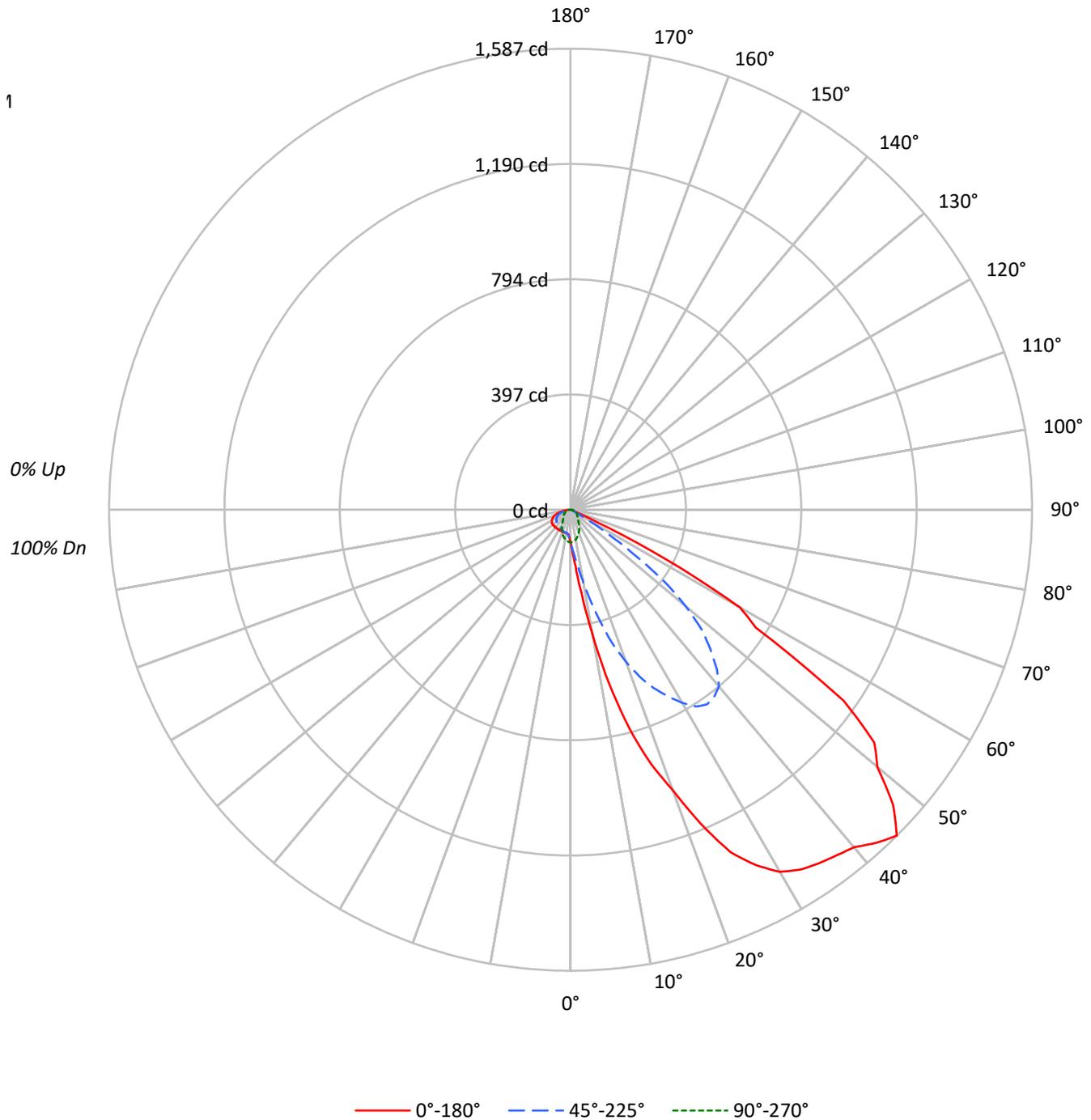
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1151.0 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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

TEST NUMBER: P1314869
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Luminous Intensity Polar Plot





TEST NUMBER: P1314869

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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 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 94 | 91 | 92 | 90 | 89 | 89 | 89 | 89 | 87 |
| 2 | 101 | 93 | 87 | 82 | 98 | 92 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 76 | 76 | 76 | 74 |
| 3 | 92 | 82 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 68 | 65 | 65 | 65 | 65 | 62 |
| 4 | 84 | 73 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 57 | 67 | 61 | 56 | 64 | 59 | 55 | 55 | 55 | 55 | 53 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 47 | 47 | 47 | 45 |
| 6 | 71 | 57 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 46 | 41 | 41 | 41 | 41 | 39 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 36 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 36 | 36 | 36 | 34 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 31 | 31 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 28 | 28 | 28 | 26 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 24 | 24 | 24 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 19272 | 19272 | 19272 | 19272 | 19272 |
| 5° | 33712 | 27540 | 18948 | 15369 | 14764 |
| 10° | 76282 | 44402 | 18170 | 14130 | 14323 |
| 15° | 138680 | 71408 | 16867 | 14193 | 14603 |
| 20° | 188041 | 101956 | 15230 | 14167 | 14809 |
| 25° | 247149 | 128724 | 13378 | 13815 | 15126 |
| 30° | 286187 | 152629 | 11475 | 13761 | 15830 |
| 35° | 312508 | 172022 | 9713 | 14065 | 16736 |
| 40° | 340918 | 178508 | 8566 | 14793 | 17896 |
| 45° | 386480 | 165547 | 8159 | 15734 | 19387 |
| 50° | 369209 | 138226 | 8038 | 16692 | 21327 |
| 55° | 344099 | 77617 | 8317 | 18016 | 23570 |
| 60° | 231743 | 16706 | 8336 | 19082 | 25455 |
| 65° | 35739 | 4238 | 7987 | 19764 | 27752 |
| 70° | 4079 | 4079 | 7553 | 20343 | 29659 |
| 75° | 3859 | 3859 | 6920 | 19963 | 29944 |
| 80° | 3471 | 4562 | 6843 | 18348 | 29754 |
| 85° | 2371 | 4545 | 6916 | 18180 | 27269 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 386480 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 13.6 | 1.2 |
| 10°-20° | 73.2 | 6.4 |
| 20°-30° | 172.0 | 14.9 |
| 30°-40° | 259.8 | 22.6 |
| 40°-50° | 298.6 | 25.9 |
| 50°-60° | 237.1 | 20.6 |
| 60°-70° | 71.0 | 6.2 |
| 70°-80° | 19.3 | 1.7 |
| 80°-90° | 6.5 | 0.6 |
| 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° | 258.7 | 22.5 |
| 0°-40° | 518.5 | 45.0 |
| 0°-60° | 1054.2 | 91.6 |
| 0°-90° | 1151.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1151.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 112 | 112 | 112 | 112 | 112 | |
| 5° | 195 | 159 | 110 | 89 | 85 | 26 |
| 15° | 778 | 400 | 95 | 80 | 82 | 224 |
| 25° | 1301 | 677 | 70 | 73 | 80 | 594 |
| 35° | 1486 | 818 | 46 | 67 | 80 | 933 |
| 45° | 1587 | 680 | 34 | 65 | 80 | 1179 |
| 55° | 1146 | 258 | 28 | 60 | 78 | 944 |
| 65° | 88 | 10 | 20 | 48 | 68 | 197 |
| 75° | 6 | 6 | 10 | 30 | 45 | 6 |
| 85° | 1 | 2 | 4 | 9 | 14 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1314869

CATALOG NUMBER: LDSQA3D17R659730DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|-------|
| 0° | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 | 111.9 |
| 2.5° | 142.0 | 143.1 | 142.0 | 142.0 | 140.8 | 139.6 | 131.6 | 122.3 | 111.9 | 103.9 | 98.1 |
| 5° | 195.0 | 196.2 | 192.7 | 192.7 | 190.4 | 187.0 | 159.3 | 132.7 | 109.6 | 96.9 | 88.9 |
| 7.5° | 288.5 | 293.1 | 287.4 | 280.4 | 267.7 | 265.4 | 198.5 | 143.1 | 107.3 | 90.0 | 83.1 |
| 10° | 436.2 | 432.8 | 427.0 | 413.2 | 391.2 | 380.8 | 253.9 | 153.5 | 103.9 | 85.4 | 80.8 |
| 12.5° | 615.1 | 605.9 | 599.0 | 573.6 | 543.6 | 526.3 | 323.1 | 162.7 | 99.2 | 80.8 | 79.6 |
| 15° | 777.8 | 770.9 | 754.8 | 730.5 | 693.6 | 679.7 | 400.5 | 168.5 | 94.6 | 77.3 | 79.6 |
| 17.5° | 915.2 | 908.3 | 899.0 | 874.8 | 836.7 | 815.9 | 487.0 | 172.0 | 88.9 | 75.0 | 78.5 |
| 20° | 1026.0 | 1021.3 | 1008.7 | 989.0 | 951.0 | 931.3 | 556.3 | 172.0 | 83.1 | 72.7 | 77.3 |
| 22.5° | 1169.1 | 1158.7 | 1142.5 | 1113.7 | 1066.4 | 1036.4 | 622.0 | 168.5 | 77.3 | 70.4 | 75.0 |
| 25° | 1300.6 | 1293.7 | 1272.9 | 1238.3 | 1187.5 | 1157.5 | 677.4 | 161.6 | 70.4 | 66.9 | 72.7 |
| 27.5° | 1379.1 | 1374.5 | 1354.9 | 1319.1 | 1262.5 | 1239.5 | 723.6 | 151.2 | 63.5 | 63.5 | 71.6 |
| 30° | 1439.1 | 1429.9 | 1410.3 | 1375.6 | 1317.9 | 1290.2 | 767.5 | 138.5 | 57.7 | 60.0 | 69.2 |
| 32.5° | 1469.1 | 1465.7 | 1448.4 | 1418.3 | 1361.8 | 1330.6 | 803.2 | 122.3 | 50.8 | 57.7 | 68.1 |
| 35° | 1486.4 | 1483.0 | 1469.1 | 1440.3 | 1387.2 | 1357.2 | 818.2 | 107.3 | 46.2 | 55.4 | 66.9 |
| 37.5° | 1500.3 | 1496.8 | 1479.5 | 1450.7 | 1397.6 | 1366.4 | 811.3 | 91.2 | 41.5 | 53.1 | 65.8 |
| 40° | 1516.4 | 1503.7 | 1477.2 | 1448.4 | 1399.9 | 1369.9 | 794.0 | 76.2 | 38.1 | 51.9 | 65.8 |
| 42.5° | 1555.7 | 1511.8 | 1470.3 | 1443.7 | 1397.6 | 1363.0 | 744.4 | 60.0 | 34.6 | 49.6 | 64.6 |
| 45° | 1586.8 | 1509.5 | 1456.4 | 1435.7 | 1388.3 | 1349.1 | 679.7 | 43.9 | 33.5 | 48.5 | 64.6 |
| 47.5° | 1504.9 | 1457.6 | 1433.4 | 1421.8 | 1371.0 | 1328.3 | 612.8 | 30.0 | 32.3 | 47.3 | 63.5 |
| 50° | 1378.0 | 1372.2 | 1363.0 | 1364.1 | 1317.9 | 1283.3 | 515.9 | 20.8 | 30.0 | 46.2 | 62.3 |
| 52.5° | 1316.8 | 1309.9 | 1293.7 | 1282.2 | 1236.0 | 1206.0 | 408.5 | 16.2 | 28.9 | 45.0 | 61.2 |
| 55° | 1146.0 | 1150.6 | 1133.3 | 1140.2 | 1126.4 | 1111.4 | 258.5 | 15.0 | 27.7 | 42.7 | 60.0 |
| 57.5° | 754.8 | 777.8 | 818.2 | 866.7 | 910.6 | 940.6 | 139.6 | 15.0 | 25.4 | 41.5 | 57.7 |
| 60° | 672.8 | 667.1 | 665.9 | 675.1 | 694.7 | 710.9 | 48.5 | 13.8 | 24.2 | 38.1 | 55.4 |
| 62.5° | 368.1 | 365.8 | 400.5 | 459.3 | 493.9 | 497.4 | 13.8 | 13.8 | 21.9 | 35.8 | 51.9 |
| 65° | 87.7 | 91.2 | 101.6 | 126.9 | 150.0 | 165.0 | 10.4 | 12.7 | 19.6 | 33.5 | 48.5 |
| 67.5° | 13.8 | 15.0 | 15.0 | 18.5 | 20.8 | 20.8 | 9.2 | 11.5 | 17.3 | 30.0 | 45.0 |
| 70° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 10.4 | 15.0 | 26.5 | 40.4 |
| 72.5° | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 8.1 | 9.2 | 12.7 | 23.1 | 34.6 |
| 75° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 8.1 | 10.4 | 18.5 | 30.0 |
| 77.5° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 5.8 | 6.9 | 9.2 | 15.0 | 24.2 |
| 80° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 4.6 | 5.8 | 6.9 | 11.5 | 18.5 |
| 82.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 3.5 | 4.6 | 5.8 | 9.2 | 13.8 |
| 85° | 1.2 | 1.2 | 1.2 | 1.2 | 2.3 | 2.3 | 2.3 | 3.5 | 3.5 | 5.8 | 9.2 |
| 87.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.3 | 2.3 | 2.3 | 3.5 | 4.6 |
| 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):

| | 157.5° | 180° |
|-------|--------|-------|
| 0° | 111.9 | 111.9 |
| 2.5° | 94.6 | 93.5 |
| 5° | 85.4 | 85.4 |
| 7.5° | 81.9 | 81.9 |
| 10° | 80.8 | 81.9 |
| 12.5° | 80.8 | 81.9 |
| 15° | 80.8 | 81.9 |
| 17.5° | 80.8 | 81.9 |
| 20° | 79.6 | 80.8 |
| 22.5° | 78.5 | 79.6 |
| 25° | 77.3 | 79.6 |
| 27.5° | 76.2 | 79.6 |
| 30° | 76.2 | 79.6 |
| 32.5° | 76.2 | 79.6 |
| 35° | 75.0 | 79.6 |
| 37.5° | 75.0 | 79.6 |
| 40° | 75.0 | 79.6 |
| 42.5° | 75.0 | 79.6 |
| 45° | 75.0 | 79.6 |
| 47.5° | 75.0 | 79.6 |
| 50° | 75.0 | 79.6 |
| 52.5° | 73.9 | 79.6 |
| 55° | 73.9 | 78.5 |
| 57.5° | 71.6 | 76.2 |
| 60° | 69.2 | 73.9 |
| 62.5° | 66.9 | 71.6 |
| 65° | 63.5 | 68.1 |
| 67.5° | 60.0 | 63.5 |
| 70° | 54.2 | 58.9 |
| 72.5° | 48.5 | 51.9 |
| 75° | 41.5 | 45.0 |
| 77.5° | 34.6 | 38.1 |
| 80° | 27.7 | 30.0 |
| 82.5° | 19.6 | 21.9 |
| 85° | 12.7 | 13.8 |
| 87.5° | 5.8 | 5.8 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)