

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: P1326766

Luminaire Tested: LDSQA3D09R45W2N902750DE010 3LSQCA45R 1MB_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326766
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: LDSQA3D09R45W2N902750DE010 3LSQCA45R 1MB_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 5000K CCT AND, 90CRI ,
3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

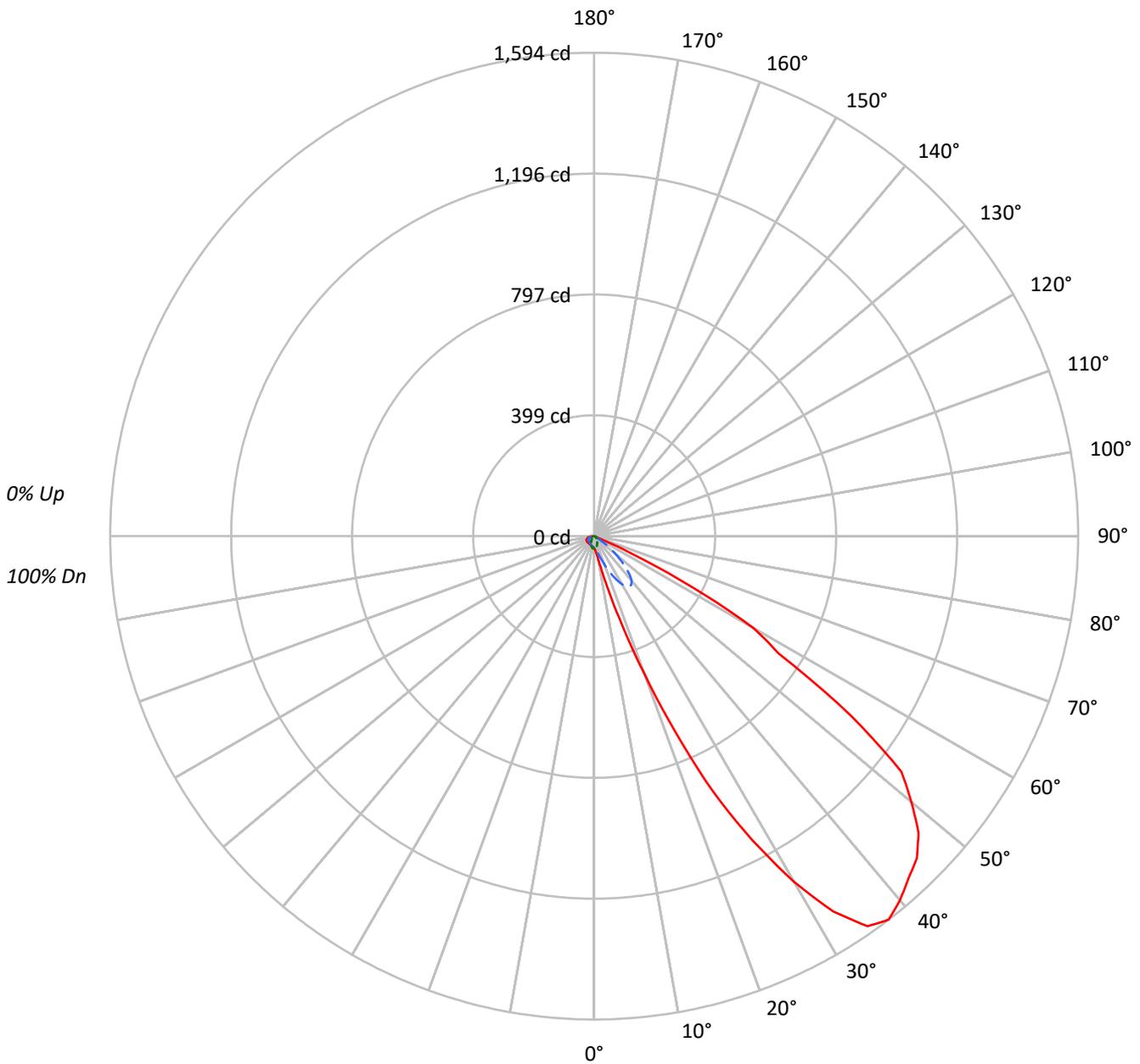
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 712.0 lumens
Efficiency: N/A
Efficacy: 79.1 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): 9
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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 88 | 86 | 86 | 86 | 86 | 86 | 86 | 86 | | |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | | |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | | |
| 5 | 76 | 63 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | | |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | | |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 33 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | | |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 42 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | | |
| 9 | 53 | 39 | 31 | 25 | 52 | 39 | 30 | 25 | 38 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | | |
| 10 | 49 | 36 | 27 | 22 | 48 | 35 | 27 | 22 | 34 | 27 | 21 | 33 | 26 | 21 | 32 | 26 | 21 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|-------|-------|
| 0° | 7096 | 7096 | 7096 | 7096 | 7096 |
| 5° | 8437 | 7831 | 7019 | 6518 | 6518 |
| 10° | 13483 | 9164 | 6593 | 6173 | 6173 |
| 15° | 33574 | 12267 | 5973 | 5777 | 5973 |
| 20° | 88412 | 18328 | 5168 | 5498 | 5828 |
| 25° | 177523 | 27174 | 4466 | 5150 | 5701 |
| 30° | 261707 | 36392 | 3619 | 5031 | 5847 |
| 35° | 330127 | 42680 | 3091 | 4941 | 6055 |
| 40° | 352227 | 43121 | 2788 | 5148 | 6475 |
| 45° | 365948 | 35974 | 2582 | 5578 | 7015 |
| 50° | 365377 | 25052 | 2519 | 6002 | 7877 |
| 55° | 310530 | 11140 | 2642 | 6726 | 8648 |
| 60° | 208734 | 2239 | 2618 | 7509 | 9920 |
| 65° | 55381 | 978 | 2649 | 8150 | 11288 |
| 70° | 1460 | 1209 | 2669 | 8862 | 12740 |
| 75° | 1198 | 1198 | 2728 | 9382 | 14506 |
| 80° | 1190 | 1785 | 2876 | 9918 | 16365 |
| 85° | 1186 | 2371 | 4742 | 10473 | 16203 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 375372 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.1 | 0.6 |
| 10°-20° | 20.1 | 2.8 |
| 20°-30° | 82.8 | 11.6 |
| 30°-40° | 174.6 | 24.5 |
| 40°-50° | 215.4 | 30.2 |
| 50°-60° | 161.4 | 22.7 |
| 60°-70° | 41.5 | 5.8 |
| 70°-80° | 8.6 | 1.2 |
| 80°-90° | 3.5 | 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° | 107.0 | 15.0 |
| 0°-40° | 281.6 | 39.5 |
| 0°-60° | 658.4 | 92.5 |
| 0°-90° | 712.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 712.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 41 | 41 | 41 | 41 | 41 | |
| 5° | 49 | 45 | 41 | 38 | 38 | 5 |
| 15° | 188 | 69 | 34 | 32 | 34 | 69 |
| 25° | 934 | 143 | 24 | 27 | 30 | 435 |
| 35° | 1570 | 203 | 15 | 24 | 29 | 957 |
| 45° | 1502 | 148 | 11 | 23 | 29 | 1150 |
| 55° | 1034 | 37 | 9 | 22 | 29 | 893 |
| 65° | 136 | 2 | 6 | 20 | 28 | 196 |
| 75° | 2 | 2 | 4 | 14 | 22 | 2 |
| 85° | 1 | 1 | 2 | 5 | 8 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|------|--------|
| 0° | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 | 41.2 |
| 2.5° | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 42.9 | 42.4 | 41.2 | 40.0 |
| 5° | 48.8 | 48.2 | 48.2 | 48.2 | 47.7 | 47.1 | 47.1 | 45.3 | 42.9 | 40.6 | 38.8 |
| 7.5° | 57.7 | 57.7 | 57.1 | 55.9 | 55.3 | 54.1 | 52.9 | 48.2 | 42.9 | 39.4 | 37.1 |
| 10° | 77.1 | 75.9 | 74.1 | 73.0 | 70.0 | 65.9 | 62.9 | 52.4 | 42.4 | 37.7 | 35.9 |
| 12.5° | 115.3 | 117.7 | 111.8 | 105.9 | 97.7 | 90.0 | 80.6 | 59.4 | 42.4 | 35.9 | 34.1 |
| 15° | 188.3 | 192.4 | 181.2 | 169.4 | 149.4 | 130.6 | 113.0 | 68.8 | 41.2 | 33.5 | 31.8 |
| 17.5° | 307.7 | 313.0 | 294.2 | 266.5 | 235.3 | 197.7 | 165.3 | 81.8 | 40.0 | 31.2 | 30.0 |
| 20° | 482.4 | 481.8 | 445.3 | 410.6 | 350.6 | 295.3 | 234.7 | 100.0 | 38.2 | 28.2 | 28.2 |
| 22.5° | 697.1 | 699.5 | 654.8 | 592.4 | 507.1 | 418.3 | 321.8 | 121.2 | 35.9 | 25.9 | 26.5 |
| 25° | 934.2 | 914.2 | 861.3 | 785.4 | 676.6 | 553.6 | 426.5 | 143.0 | 33.5 | 23.5 | 24.7 |
| 27.5° | 1131.9 | 1112.5 | 1051.9 | 961.9 | 844.8 | 698.9 | 533.0 | 164.7 | 30.6 | 21.2 | 22.9 |
| 30° | 1316.0 | 1291.3 | 1218.4 | 1116.6 | 977.2 | 819.5 | 633.0 | 183.0 | 27.1 | 18.2 | 21.2 |
| 32.5° | 1467.8 | 1445.5 | 1362.5 | 1244.3 | 1092.5 | 923.1 | 717.7 | 197.1 | 23.5 | 16.5 | 20.0 |
| 35° | 1570.2 | 1547.3 | 1470.8 | 1340.8 | 1175.4 | 998.4 | 786.6 | 203.0 | 20.6 | 14.7 | 19.4 |
| 37.5° | 1593.7 | 1581.4 | 1526.7 | 1404.9 | 1232.5 | 1046.6 | 830.7 | 201.2 | 17.1 | 13.5 | 18.2 |
| 40° | 1566.7 | 1569.6 | 1543.7 | 1442.5 | 1263.1 | 1067.2 | 848.9 | 191.8 | 14.1 | 12.4 | 17.6 |
| 42.5° | 1532.0 | 1539.6 | 1537.8 | 1457.8 | 1276.0 | 1068.4 | 841.3 | 173.0 | 11.2 | 11.2 | 17.1 |
| 45° | 1502.5 | 1510.2 | 1520.8 | 1451.4 | 1267.2 | 1053.1 | 817.2 | 147.7 | 8.2 | 10.6 | 17.1 |
| 47.5° | 1449.0 | 1457.2 | 1472.5 | 1399.6 | 1222.5 | 1013.7 | 773.6 | 120.0 | 5.9 | 10.0 | 16.5 |
| 50° | 1363.7 | 1367.8 | 1363.7 | 1281.9 | 1136.6 | 950.1 | 703.0 | 93.5 | 4.1 | 9.4 | 16.5 |
| 52.5° | 1276.0 | 1267.8 | 1233.7 | 1130.1 | 1000.1 | 849.5 | 614.2 | 66.5 | 2.9 | 8.8 | 15.9 |
| 55° | 1034.2 | 1021.3 | 996.0 | 932.5 | 858.3 | 726.0 | 496.5 | 37.1 | 2.9 | 8.8 | 15.3 |
| 57.5° | 720.7 | 727.7 | 736.6 | 723.6 | 689.5 | 571.8 | 377.1 | 16.5 | 2.9 | 8.2 | 15.3 |
| 60° | 606.0 | 600.1 | 600.7 | 592.4 | 535.9 | 417.1 | 259.4 | 6.5 | 2.9 | 7.6 | 14.7 |
| 62.5° | 361.8 | 365.9 | 373.6 | 375.3 | 319.5 | 233.0 | 135.9 | 2.9 | 2.9 | 7.1 | 14.1 |
| 65° | 135.9 | 142.4 | 124.7 | 108.2 | 85.9 | 62.9 | 31.8 | 2.4 | 3.5 | 6.5 | 12.9 |
| 67.5° | 4.1 | 4.7 | 5.9 | 5.3 | 5.3 | 4.7 | 3.5 | 2.4 | 3.5 | 5.9 | 12.4 |
| 70° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.4 | 2.4 | 2.4 | 2.9 | 5.3 | 11.2 |
| 72.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.9 | 4.7 | 10.0 |
| 75° | 1.8 | 2.4 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 2.9 | 4.1 | 8.2 |
| 77.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 2.4 | 3.5 | 7.1 |
| 80° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.8 | 2.4 | 2.9 | 5.9 |
| 82.5° | 1.2 | 1.2 | 1.2 | 0.6 | 1.2 | 1.2 | 1.2 | 1.2 | 2.4 | 2.4 | 4.7 |
| 85° | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 1.2 | 1.8 | 2.4 | 2.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 1.2 | 1.8 | 1.8 | 1.8 |
| 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° | 41.2 | 41.2 | 41.2 |
| 2.5° | 38.8 | 38.8 | 38.8 |
| 5° | 37.7 | 37.7 | 37.7 |
| 7.5° | 36.5 | 36.5 | 36.5 |
| 10° | 35.3 | 35.3 | 35.3 |
| 12.5° | 34.1 | 34.1 | 34.7 |
| 15° | 32.4 | 33.5 | 33.5 |
| 17.5° | 31.2 | 32.4 | 32.9 |
| 20° | 30.0 | 31.2 | 31.8 |
| 22.5° | 28.2 | 30.0 | 31.2 |
| 25° | 27.1 | 29.4 | 30.0 |
| 27.5° | 25.9 | 28.8 | 30.0 |
| 30° | 25.3 | 28.2 | 29.4 |
| 32.5° | 24.1 | 27.7 | 28.8 |
| 35° | 23.5 | 27.7 | 28.8 |
| 37.5° | 23.5 | 27.7 | 28.8 |
| 40° | 22.9 | 27.1 | 28.8 |
| 42.5° | 22.9 | 27.1 | 28.8 |
| 45° | 22.9 | 27.1 | 28.8 |
| 47.5° | 22.4 | 27.1 | 29.4 |
| 50° | 22.4 | 27.7 | 29.4 |
| 52.5° | 22.4 | 27.7 | 29.4 |
| 55° | 22.4 | 27.7 | 28.8 |
| 57.5° | 21.8 | 27.1 | 28.8 |
| 60° | 21.8 | 27.1 | 28.8 |
| 62.5° | 20.6 | 26.5 | 28.2 |
| 65° | 20.0 | 25.9 | 27.7 |
| 67.5° | 18.8 | 25.3 | 26.5 |
| 70° | 17.6 | 23.5 | 25.3 |
| 72.5° | 15.9 | 22.4 | 24.1 |
| 75° | 14.1 | 20.6 | 21.8 |
| 77.5° | 12.4 | 18.2 | 19.4 |
| 80° | 10.0 | 15.3 | 16.5 |
| 82.5° | 7.6 | 11.8 | 12.4 |
| 85° | 5.3 | 7.6 | 8.2 |
| 87.5° | 2.4 | 3.5 | 4.1 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)