

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: P1318436

Luminaire Tested: LDSQA3D13R709830DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R709830DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

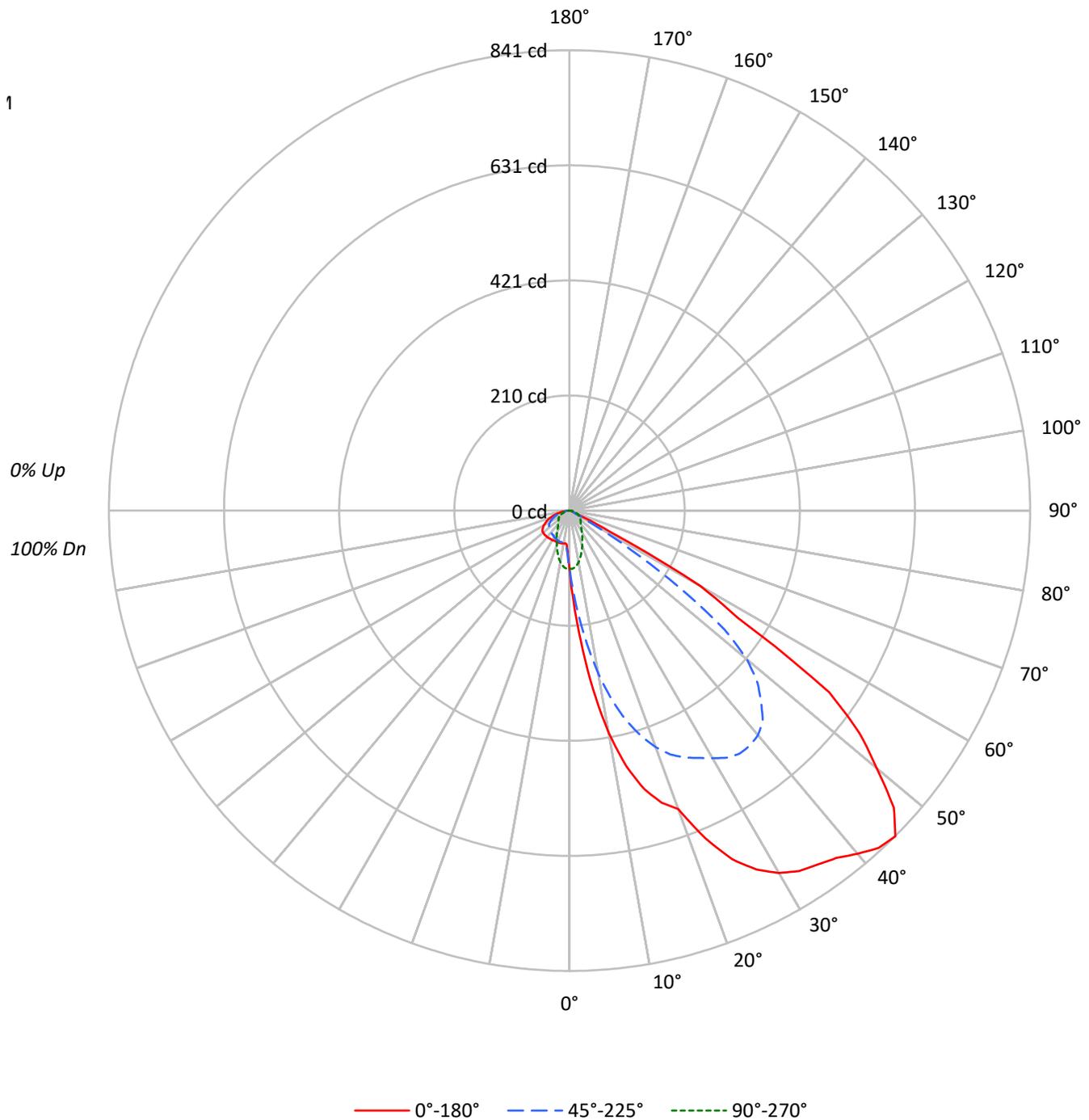
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 727.0 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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





TEST NUMBER: P1318436

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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 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 89 | 89 | 89 | 87 |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | 77 | 77 | 77 | 75 |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 69 | 66 | 66 | 66 | 66 | 64 |
| 4 | 85 | 74 | 66 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 57 | 57 | 57 | 54 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 49 | 49 | 49 | 47 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 43 | 43 | 43 | 41 |
| 7 | 66 | 53 | 44 | 38 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 37 | 37 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 33 | 33 | 33 | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 29 | 29 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 37 | 31 | 26 | 26 | 26 | 26 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 18238 | 18238 | 18238 | 18238 | 18238 |
| 5° | 41509 | 33228 | 18049 | 11410 | 10667 |
| 10° | 71928 | 52761 | 16736 | 10405 | 10650 |
| 15° | 93892 | 70481 | 14620 | 10609 | 11001 |
| 20° | 106355 | 84288 | 12499 | 10777 | 11436 |
| 25° | 133551 | 94557 | 10470 | 10889 | 11725 |
| 30° | 152033 | 103848 | 8949 | 11117 | 12409 |
| 35° | 165925 | 113911 | 7779 | 11290 | 13119 |
| 40° | 183948 | 120347 | 7172 | 11736 | 14186 |
| 45° | 204931 | 120489 | 7063 | 12373 | 15369 |
| 50° | 196286 | 113308 | 6993 | 13021 | 16719 |
| 55° | 173791 | 73384 | 7176 | 13722 | 18076 |
| 60° | 95205 | 15741 | 7233 | 13984 | 18738 |
| 65° | 6805 | 3831 | 7091 | 13896 | 18909 |
| 70° | 3273 | 3676 | 6596 | 13143 | 18279 |
| 75° | 2928 | 3859 | 6255 | 12576 | 16902 |
| 80° | 2876 | 3570 | 5752 | 11505 | 15869 |
| 85° | 2964 | 4347 | 5730 | 10078 | 14425 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 204931 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 13.8 | 1.9 |
| 10°-20° | 59.1 | 8.1 |
| 20°-30° | 113.4 | 15.6 |
| 30°-40° | 160.3 | 22.0 |
| 40°-50° | 181.3 | 24.9 |
| 50°-60° | 143.6 | 19.8 |
| 60°-70° | 38.7 | 5.3 |
| 70°-80° | 12.9 | 1.8 |
| 80°-90° | 3.9 | 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° | 186.3 | 25.6 |
| 0°-40° | 346.5 | 47.7 |
| 0°-60° | 671.5 | 92.4 |
| 0°-90° | 727.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 727.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 106 | 106 | 106 | 106 | 106 | |
| 5° | 240 | 192 | 104 | 66 | 62 | 28 |
| 15° | 527 | 395 | 82 | 60 | 62 | 148 |
| 25° | 703 | 498 | 55 | 57 | 62 | 322 |
| 35° | 789 | 542 | 37 | 54 | 62 | 497 |
| 45° | 841 | 495 | 29 | 51 | 63 | 629 |
| 55° | 579 | 244 | 24 | 46 | 60 | 470 |
| 65° | 17 | 9 | 17 | 34 | 46 | 60 |
| 75° | 4 | 6 | 9 | 19 | 25 | 5 |
| 85° | 2 | 2 | 3 | 5 | 7 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1318436

CATALOG NUMBER: LDSQA3D13R709830DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0° | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 | 105.9 |
| 2.5° | 164.6 | 164.6 | 163.9 | 161.0 | 159.6 | 155.9 | 153.0 | 145.1 | 125.5 | 106.6 | 91.4 |
| 5° | 240.1 | 243.7 | 238.6 | 237.9 | 233.6 | 227.0 | 222.7 | 192.2 | 145.1 | 104.4 | 78.3 |
| 7.5° | 329.3 | 330.8 | 329.3 | 322.0 | 315.5 | 304.6 | 294.5 | 246.6 | 164.6 | 100.8 | 68.9 |
| 10° | 411.3 | 409.1 | 404.7 | 399.7 | 390.2 | 378.6 | 361.2 | 301.7 | 183.5 | 95.7 | 63.1 |
| 12.5° | 478.0 | 477.3 | 472.2 | 467.1 | 455.5 | 440.3 | 422.9 | 351.8 | 199.5 | 89.2 | 60.2 |
| 15° | 526.6 | 526.6 | 521.5 | 515.7 | 504.8 | 492.5 | 472.9 | 395.3 | 212.5 | 82.0 | 57.3 |
| 17.5° | 559.2 | 557.8 | 554.2 | 549.8 | 541.1 | 528.8 | 513.5 | 430.1 | 221.2 | 74.7 | 56.6 |
| 20° | 580.3 | 579.5 | 576.6 | 570.1 | 562.9 | 553.4 | 539.6 | 459.9 | 224.9 | 68.2 | 55.9 |
| 22.5° | 647.7 | 641.9 | 631.0 | 617.3 | 599.8 | 577.4 | 558.5 | 482.3 | 223.4 | 60.9 | 54.4 |
| 25° | 702.8 | 700.7 | 689.1 | 672.4 | 649.2 | 620.2 | 589.0 | 497.6 | 216.1 | 55.1 | 52.9 |
| 27.5° | 739.1 | 735.5 | 724.6 | 706.5 | 681.8 | 653.5 | 624.5 | 509.2 | 206.0 | 50.0 | 50.8 |
| 30° | 764.5 | 762.3 | 751.4 | 731.1 | 705.7 | 674.6 | 644.8 | 522.2 | 192.2 | 45.0 | 48.6 |
| 32.5° | 780.5 | 778.3 | 767.4 | 749.3 | 724.6 | 692.0 | 657.9 | 535.3 | 175.5 | 40.6 | 46.4 |
| 35° | 789.2 | 787.0 | 774.7 | 758.7 | 735.5 | 703.6 | 667.3 | 541.8 | 155.2 | 37.0 | 44.2 |
| 37.5° | 800.0 | 795.7 | 779.0 | 759.4 | 736.2 | 706.5 | 670.2 | 541.1 | 134.9 | 34.1 | 42.8 |
| 40° | 818.2 | 806.6 | 782.6 | 756.5 | 732.6 | 702.8 | 668.0 | 535.3 | 112.4 | 31.9 | 41.3 |
| 42.5° | 835.6 | 818.9 | 783.4 | 752.2 | 725.3 | 696.3 | 660.0 | 522.2 | 87.8 | 30.5 | 40.6 |
| 45° | 841.4 | 816.7 | 773.2 | 742.0 | 716.6 | 686.9 | 649.2 | 494.7 | 59.5 | 29.0 | 39.2 |
| 47.5° | 802.9 | 784.8 | 748.5 | 725.3 | 701.4 | 672.4 | 633.2 | 465.7 | 34.1 | 27.6 | 37.7 |
| 50° | 732.6 | 721.0 | 700.7 | 686.2 | 673.1 | 652.8 | 614.4 | 422.9 | 20.3 | 26.1 | 36.3 |
| 52.5° | 667.3 | 663.7 | 649.2 | 637.6 | 630.3 | 620.9 | 586.1 | 356.9 | 16.7 | 25.4 | 34.8 |
| 55° | 578.8 | 567.2 | 563.6 | 559.2 | 574.5 | 573.7 | 526.6 | 244.4 | 16.0 | 23.9 | 33.4 |
| 57.5° | 363.4 | 368.5 | 387.3 | 422.1 | 463.5 | 487.4 | 486.0 | 130.6 | 15.2 | 22.5 | 31.2 |
| 60° | 276.4 | 275.6 | 281.4 | 295.9 | 326.4 | 360.5 | 392.4 | 45.7 | 14.5 | 21.0 | 29.7 |
| 62.5° | 82.7 | 84.9 | 102.3 | 150.1 | 179.9 | 222.0 | 202.4 | 10.9 | 13.8 | 18.9 | 26.8 |
| 65° | 16.7 | 17.4 | 17.4 | 19.6 | 23.9 | 36.3 | 44.2 | 9.4 | 13.1 | 17.4 | 24.7 |
| 67.5° | 7.3 | 7.3 | 7.3 | 8.0 | 8.0 | 9.4 | 8.0 | 8.7 | 11.6 | 15.2 | 21.8 |
| 70° | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 7.3 | 7.3 | 10.2 | 13.1 | 18.9 |
| 72.5° | 5.1 | 5.1 | 5.1 | 5.8 | 5.8 | 5.8 | 5.8 | 6.5 | 8.7 | 10.9 | 16.0 |
| 75° | 4.4 | 4.4 | 4.4 | 4.4 | 5.1 | 5.1 | 5.1 | 5.8 | 7.3 | 9.4 | 13.1 |
| 77.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 4.4 | 4.4 | 4.4 | 5.8 | 7.3 | 10.9 |
| 80° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 3.6 | 4.4 | 5.8 | 8.0 |
| 82.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.9 | 3.6 | 4.4 | 5.8 |
| 85° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 | 2.2 | 2.9 | 3.6 |
| 87.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.5 | 1.5 | 1.5 | 2.2 |
| 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° | 105.9 | 105.9 | 105.9 |
| 2.5° | 80.5 | 76.2 | 74.0 |
| 5° | 66.0 | 62.4 | 61.7 |
| 7.5° | 60.9 | 60.2 | 60.2 |
| 10° | 59.5 | 60.2 | 60.9 |
| 12.5° | 59.5 | 60.9 | 61.7 |
| 15° | 59.5 | 60.9 | 61.7 |
| 17.5° | 59.5 | 60.9 | 61.7 |
| 20° | 58.8 | 60.9 | 62.4 |
| 22.5° | 58.0 | 60.9 | 61.7 |
| 25° | 57.3 | 60.9 | 61.7 |
| 27.5° | 56.6 | 60.2 | 61.7 |
| 30° | 55.9 | 60.2 | 62.4 |
| 32.5° | 54.4 | 60.2 | 62.4 |
| 35° | 53.7 | 60.2 | 62.4 |
| 37.5° | 52.9 | 60.2 | 63.1 |
| 40° | 52.2 | 60.2 | 63.1 |
| 42.5° | 51.5 | 60.2 | 63.1 |
| 45° | 50.8 | 59.5 | 63.1 |
| 47.5° | 49.3 | 59.5 | 63.1 |
| 50° | 48.6 | 58.8 | 62.4 |
| 52.5° | 47.1 | 58.0 | 62.4 |
| 55° | 45.7 | 56.6 | 60.2 |
| 57.5° | 43.5 | 54.4 | 57.3 |
| 60° | 40.6 | 51.5 | 54.4 |
| 62.5° | 37.0 | 47.9 | 50.0 |
| 65° | 34.1 | 43.5 | 46.4 |
| 67.5° | 29.7 | 38.4 | 41.3 |
| 70° | 26.1 | 33.4 | 36.3 |
| 72.5° | 22.5 | 28.3 | 31.2 |
| 75° | 18.9 | 23.2 | 25.4 |
| 77.5° | 14.5 | 18.9 | 20.3 |
| 80° | 11.6 | 14.5 | 16.0 |
| 82.5° | 8.0 | 10.2 | 10.9 |
| 85° | 5.1 | 6.5 | 7.3 |
| 87.5° | 2.2 | 2.9 | 2.9 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)