

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: P1319311

Luminaire Tested: LDSQA3D13R709835DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319311
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: LDSQA3D13R709835DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

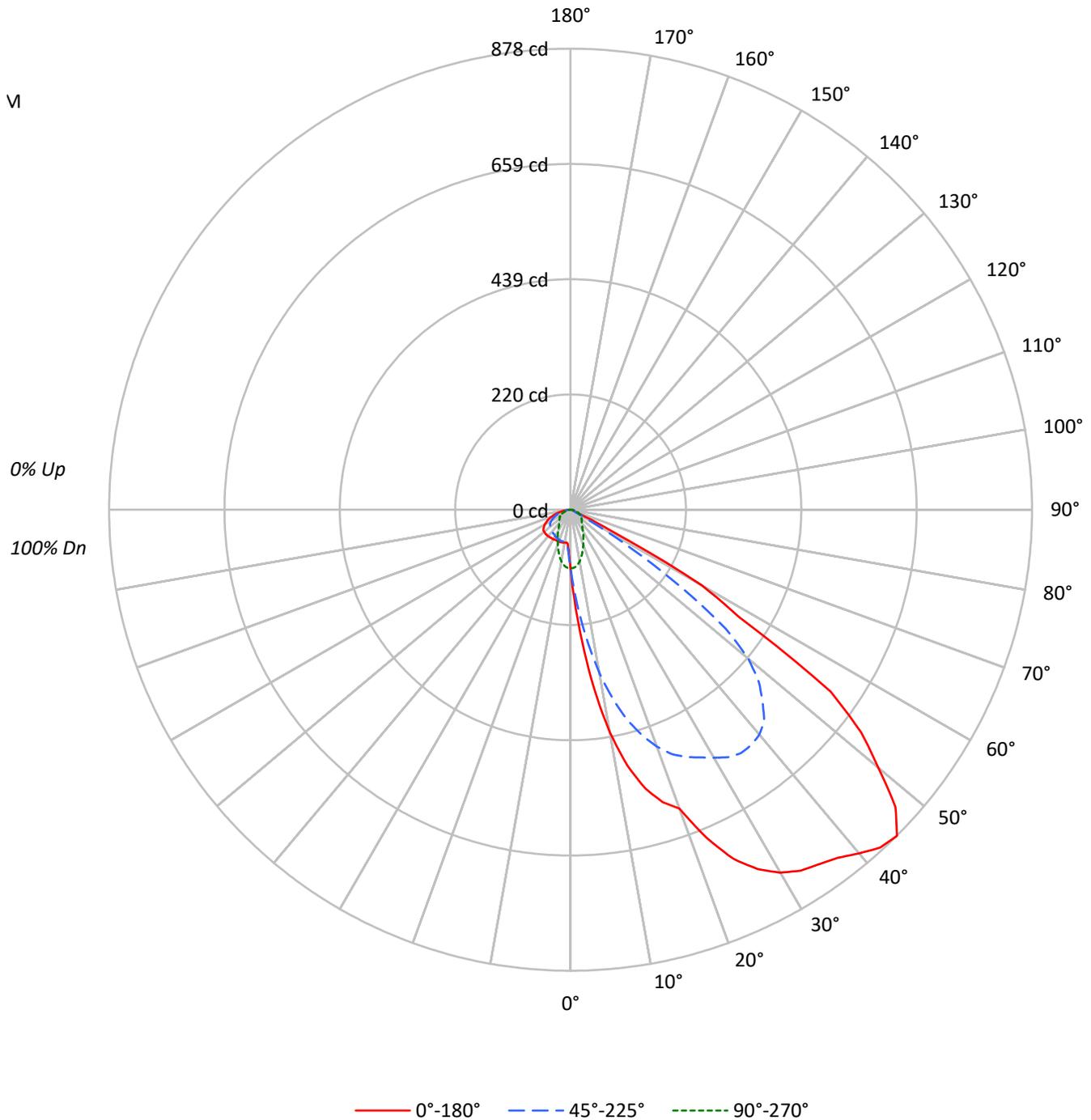
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 759.0 lumens
Efficiency: N/A
Efficacy: 52.3 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





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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | 75 |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 69 | 66 | 64 |
| 4 | 85 | 74 | 66 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 54 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 47 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 41 |
| 7 | 66 | 53 | 44 | 38 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 37 | 31 | 26 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 19048 | 19048 | 19048 | 19048 | 19048 |
| 5° | 43341 | 34697 | 18844 | 11911 | 11134 |
| 10° | 75093 | 55087 | 17488 | 10860 | 11122 |
| 15° | 98028 | 73584 | 15262 | 11072 | 11482 |
| 20° | 111028 | 87991 | 13049 | 11235 | 11931 |
| 25° | 139442 | 98719 | 10946 | 11364 | 12238 |
| 30° | 158715 | 108422 | 9327 | 11594 | 12946 |
| 35° | 173221 | 118936 | 8115 | 11774 | 13687 |
| 40° | 192042 | 125652 | 7487 | 12253 | 14816 |
| 45° | 213943 | 125774 | 7380 | 12909 | 16051 |
| 50° | 204914 | 118291 | 7315 | 13584 | 17442 |
| 55° | 181448 | 76627 | 7507 | 14322 | 18886 |
| 60° | 99372 | 16430 | 7578 | 14604 | 19564 |
| 65° | 7091 | 3994 | 7417 | 14507 | 19764 |
| 70° | 3424 | 3827 | 6848 | 13747 | 19084 |
| 75° | 2994 | 4059 | 6521 | 13109 | 17634 |
| 80° | 2975 | 3769 | 6050 | 12001 | 16563 |
| 85° | 2964 | 4545 | 5928 | 10473 | 15018 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 213943 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 14.4 | 1.9 |
| 10°-20° | 61.7 | 8.1 |
| 20°-30° | 118.3 | 15.6 |
| 30°-40° | 167.4 | 22.0 |
| 40°-50° | 189.3 | 24.9 |
| 50°-60° | 149.9 | 19.8 |
| 60°-70° | 40.4 | 5.3 |
| 70°-80° | 13.4 | 1.8 |
| 80°-90° | 4.1 | 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° | 194.5 | 25.6 |
| 0°-40° | 361.8 | 47.7 |
| 0°-60° | 701.1 | 92.4 |
| 0°-90° | 759.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 759.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 111 | 111 | 111 | 111 | 111 | |
| 5° | 251 | 201 | 109 | 69 | 64 | 30 |
| 15° | 550 | 413 | 86 | 62 | 64 | 155 |
| 25° | 734 | 520 | 58 | 60 | 64 | 336 |
| 35° | 824 | 566 | 39 | 56 | 65 | 519 |
| 45° | 878 | 516 | 30 | 53 | 66 | 657 |
| 55° | 604 | 255 | 25 | 48 | 63 | 490 |
| 65° | 17 | 10 | 18 | 36 | 48 | 63 |
| 75° | 4 | 6 | 10 | 20 | 26 | 5 |
| 85° | 2 | 2 | 3 | 5 | 8 | 2 |
| 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° | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 | 110.6 |
| 2.5° | 171.9 | 171.9 | 171.1 | 168.1 | 166.6 | 162.8 | 159.8 | 151.5 | 131.0 | 111.3 | 95.4 |
| 5° | 250.7 | 254.4 | 249.1 | 248.4 | 243.8 | 237.0 | 232.5 | 200.7 | 151.5 | 109.0 | 81.8 |
| 7.5° | 343.8 | 345.3 | 343.8 | 336.2 | 329.4 | 318.0 | 307.4 | 257.5 | 171.9 | 105.3 | 71.9 |
| 10° | 429.4 | 427.1 | 422.5 | 417.2 | 407.4 | 395.3 | 377.1 | 315.0 | 191.6 | 100.0 | 65.9 |
| 12.5° | 499.0 | 498.3 | 493.0 | 487.7 | 475.6 | 459.7 | 441.5 | 367.3 | 208.2 | 93.1 | 62.9 |
| 15° | 549.8 | 549.8 | 544.5 | 538.4 | 527.0 | 514.2 | 493.7 | 412.7 | 221.9 | 85.6 | 59.8 |
| 17.5° | 583.8 | 582.3 | 578.5 | 574.0 | 564.9 | 552.0 | 536.1 | 449.1 | 231.0 | 78.0 | 59.1 |
| 20° | 605.8 | 605.0 | 602.0 | 595.2 | 587.6 | 577.8 | 563.4 | 480.1 | 234.7 | 71.2 | 58.3 |
| 22.5° | 676.2 | 670.2 | 658.8 | 644.4 | 626.3 | 602.8 | 583.1 | 503.6 | 233.2 | 63.6 | 56.8 |
| 25° | 733.8 | 731.5 | 719.4 | 702.0 | 677.7 | 647.5 | 614.9 | 519.5 | 225.7 | 57.6 | 55.3 |
| 27.5° | 771.6 | 767.9 | 756.5 | 737.6 | 711.8 | 682.3 | 652.0 | 531.6 | 215.1 | 52.3 | 53.0 |
| 30° | 798.1 | 795.9 | 784.5 | 763.3 | 736.8 | 704.2 | 673.2 | 545.2 | 200.7 | 46.9 | 50.7 |
| 32.5° | 814.8 | 812.5 | 801.2 | 782.2 | 756.5 | 722.4 | 686.8 | 558.9 | 183.3 | 42.4 | 48.5 |
| 35° | 823.9 | 821.6 | 808.7 | 792.1 | 767.9 | 734.5 | 696.7 | 565.7 | 162.1 | 38.6 | 46.2 |
| 37.5° | 835.3 | 830.7 | 813.3 | 792.8 | 768.6 | 737.6 | 699.7 | 564.9 | 140.8 | 35.6 | 44.7 |
| 40° | 854.2 | 842.1 | 817.1 | 789.8 | 764.8 | 733.8 | 697.4 | 558.9 | 117.4 | 33.3 | 43.2 |
| 42.5° | 872.4 | 854.9 | 817.8 | 785.3 | 757.3 | 727.0 | 689.1 | 545.2 | 91.6 | 31.8 | 42.4 |
| 45° | 878.4 | 852.7 | 807.2 | 774.7 | 748.2 | 717.1 | 677.7 | 516.4 | 62.1 | 30.3 | 40.9 |
| 47.5° | 838.3 | 819.4 | 781.5 | 757.3 | 732.3 | 702.0 | 661.1 | 486.2 | 35.6 | 28.8 | 39.4 |
| 50° | 764.8 | 752.7 | 731.5 | 716.4 | 702.7 | 681.5 | 641.4 | 441.5 | 21.2 | 27.3 | 37.9 |
| 52.5° | 696.7 | 692.9 | 677.7 | 665.6 | 658.1 | 648.2 | 611.9 | 372.6 | 17.4 | 26.5 | 36.3 |
| 55° | 604.3 | 592.2 | 588.4 | 583.8 | 599.7 | 599.0 | 549.8 | 255.2 | 16.7 | 25.0 | 34.8 |
| 57.5° | 379.4 | 384.7 | 404.4 | 440.7 | 483.9 | 508.9 | 507.4 | 136.3 | 15.9 | 23.5 | 32.6 |
| 60° | 288.5 | 287.8 | 293.8 | 309.0 | 340.8 | 376.4 | 409.7 | 47.7 | 15.1 | 22.0 | 31.0 |
| 62.5° | 86.3 | 88.6 | 106.8 | 156.8 | 187.8 | 231.7 | 211.3 | 11.4 | 14.4 | 19.7 | 28.0 |
| 65° | 17.4 | 18.2 | 18.2 | 20.4 | 25.0 | 37.9 | 46.2 | 9.8 | 13.6 | 18.2 | 25.7 |
| 67.5° | 7.6 | 7.6 | 7.6 | 8.3 | 8.3 | 9.8 | 8.3 | 9.1 | 12.1 | 15.9 | 22.7 |
| 70° | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 7.6 | 7.6 | 10.6 | 13.6 | 19.7 |
| 72.5° | 5.3 | 5.3 | 5.3 | 6.1 | 6.1 | 6.1 | 6.1 | 6.8 | 9.1 | 11.4 | 16.7 |
| 75° | 4.5 | 4.5 | 4.5 | 4.5 | 5.3 | 5.3 | 5.3 | 6.1 | 7.6 | 9.8 | 13.6 |
| 77.5° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 4.5 | 4.5 | 4.5 | 6.1 | 7.6 | 11.4 |
| 80° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.8 | 4.5 | 6.1 | 8.3 |
| 82.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 3.0 | 3.8 | 4.5 | 6.1 |
| 85° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.3 | 2.3 | 3.0 | 3.8 |
| 87.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 1.5 | 2.3 |
| 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° | 110.6 | 110.6 | 110.6 |
| 2.5° | 84.1 | 79.5 | 77.2 |
| 5° | 68.9 | 65.1 | 64.4 |
| 7.5° | 63.6 | 62.9 | 62.9 |
| 10° | 62.1 | 62.9 | 63.6 |
| 12.5° | 62.1 | 63.6 | 64.4 |
| 15° | 62.1 | 63.6 | 64.4 |
| 17.5° | 62.1 | 63.6 | 64.4 |
| 20° | 61.3 | 63.6 | 65.1 |
| 22.5° | 60.6 | 63.6 | 64.4 |
| 25° | 59.8 | 63.6 | 64.4 |
| 27.5° | 59.1 | 62.9 | 64.4 |
| 30° | 58.3 | 62.9 | 65.1 |
| 32.5° | 56.8 | 62.9 | 65.1 |
| 35° | 56.0 | 62.9 | 65.1 |
| 37.5° | 55.3 | 62.9 | 65.9 |
| 40° | 54.5 | 62.9 | 65.9 |
| 42.5° | 53.8 | 62.9 | 65.9 |
| 45° | 53.0 | 62.1 | 65.9 |
| 47.5° | 51.5 | 62.1 | 65.9 |
| 50° | 50.7 | 61.3 | 65.1 |
| 52.5° | 49.2 | 60.6 | 65.1 |
| 55° | 47.7 | 59.1 | 62.9 |
| 57.5° | 45.4 | 56.8 | 59.8 |
| 60° | 42.4 | 53.8 | 56.8 |
| 62.5° | 38.6 | 50.0 | 52.3 |
| 65° | 35.6 | 45.4 | 48.5 |
| 67.5° | 31.0 | 40.1 | 43.2 |
| 70° | 27.3 | 34.8 | 37.9 |
| 72.5° | 23.5 | 29.5 | 32.6 |
| 75° | 19.7 | 24.2 | 26.5 |
| 77.5° | 15.1 | 19.7 | 21.2 |
| 80° | 12.1 | 15.1 | 16.7 |
| 82.5° | 8.3 | 10.6 | 11.4 |
| 85° | 5.3 | 6.8 | 7.6 |
| 87.5° | 2.3 | 3.0 | 3.0 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)