

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: P1325610

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MW_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325610
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: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MW_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

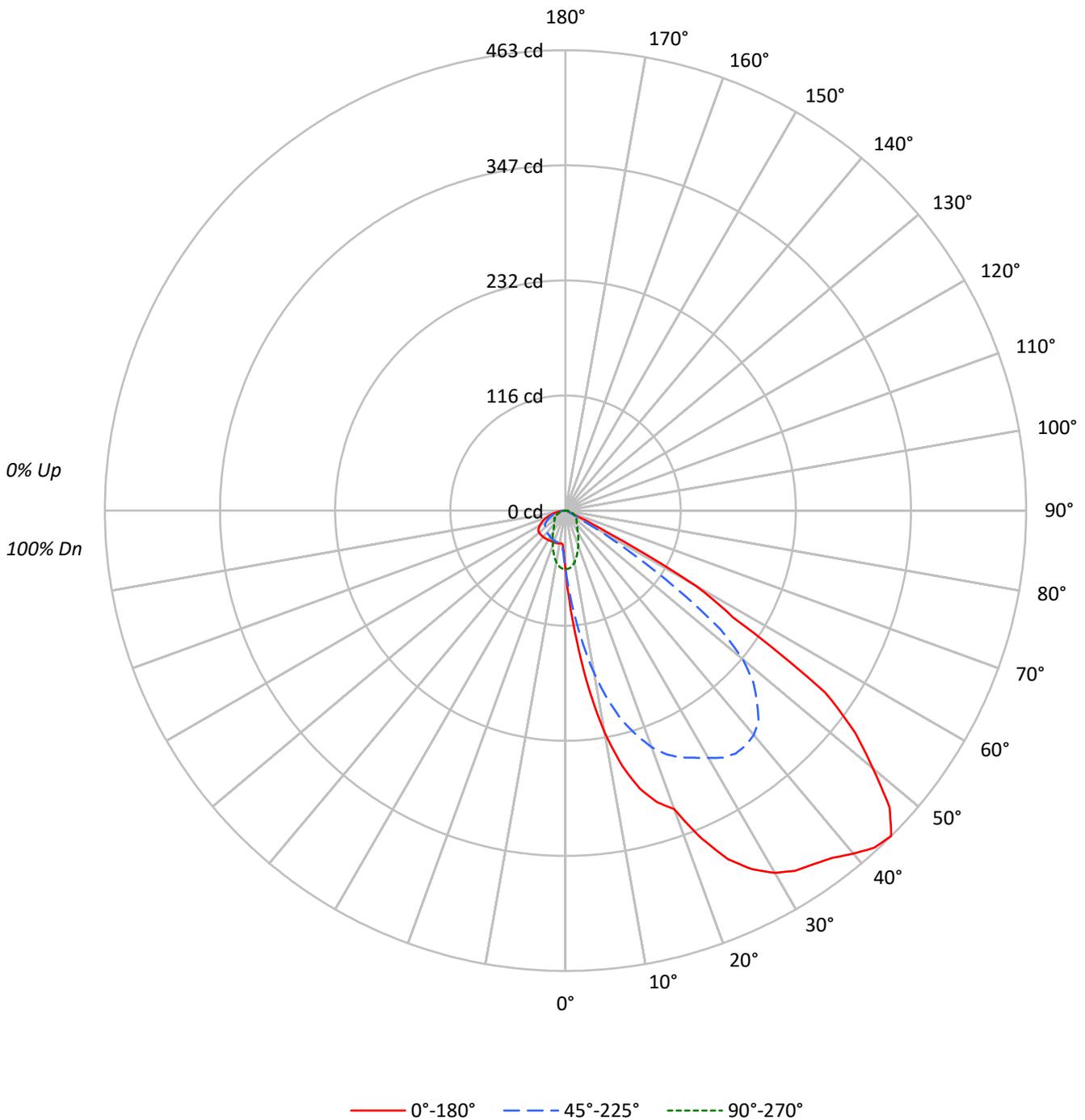
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 400.0 lumens
Efficiency: N/A
Efficacy: 67.8 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): 5.9
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





TEST NUMBER: P1325610

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|-------|-------|-------|
| 0° | 10041 | 10041 | 10041 | 10041 | 10041 |
| 5° | 22838 | 18291 | 9941 | 6276 | 5861 |
| 10° | 39575 | 29030 | 9216 | 5719 | 5858 |
| 15° | 51653 | 38780 | 8041 | 5830 | 6044 |
| 20° | 58520 | 46369 | 6873 | 5920 | 6286 |
| 25° | 73483 | 52029 | 5758 | 5986 | 6442 |
| 30° | 83643 | 57134 | 4912 | 6105 | 6821 |
| 35° | 91288 | 62674 | 4289 | 6202 | 7211 |
| 40° | 101214 | 66210 | 3957 | 6452 | 7801 |
| 45° | 112744 | 66297 | 3897 | 6795 | 8452 |
| 50° | 108003 | 62348 | 3858 | 7154 | 9190 |
| 55° | 95633 | 40385 | 3963 | 7537 | 9939 |
| 60° | 52356 | 8646 | 3996 | 7681 | 10299 |
| 65° | 3749 | 2119 | 3912 | 7661 | 10392 |
| 70° | 1813 | 2014 | 3626 | 7251 | 10071 |
| 75° | 1597 | 2129 | 3460 | 6920 | 9316 |
| 80° | 1587 | 1984 | 3174 | 6347 | 8728 |
| 85° | 1581 | 2371 | 3162 | 5533 | 7904 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 112744 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 7.6 | 1.9 |
| 10°-20° | 32.5 | 8.1 |
| 20°-30° | 62.4 | 15.6 |
| 30°-40° | 88.2 | 22.0 |
| 40°-50° | 99.8 | 24.9 |
| 50°-60° | 79.0 | 19.8 |
| 60°-70° | 21.3 | 5.3 |
| 70°-80° | 7.1 | 1.8 |
| 80°-90° | 2.2 | 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° | 102.5 | 25.6 |
| 0°-40° | 190.7 | 47.7 |
| 0°-60° | 369.4 | 92.4 |
| 0°-90° | 400.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 400.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 58 | 58 | 58 | 58 | 58 | |
| 5° | 132 | 106 | 58 | 36 | 34 | 16 |
| 15° | 290 | 218 | 45 | 33 | 34 | 82 |
| 25° | 387 | 274 | 30 | 32 | 34 | 177 |
| 35° | 434 | 298 | 20 | 30 | 34 | 273 |
| 45° | 463 | 272 | 16 | 28 | 35 | 346 |
| 55° | 318 | 134 | 13 | 25 | 33 | 258 |
| 65° | 9 | 5 | 10 | 19 | 26 | 33 |
| 75° | 2 | 3 | 5 | 10 | 14 | 3 |
| 85° | 1 | 1 | 2 | 3 | 4 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1325610

CATALOG NUMBER: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MW_5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|
| 0° | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 | 58.3 |
| 2.5° | 90.6 | 90.6 | 90.2 | 88.6 | 87.8 | 85.8 | 84.2 | 79.8 | 69.0 | 58.7 | 50.3 |
| 5° | 132.1 | 134.1 | 131.3 | 130.9 | 128.5 | 124.9 | 122.5 | 105.8 | 79.8 | 57.5 | 43.1 |
| 7.5° | 181.2 | 182.0 | 181.2 | 177.2 | 173.6 | 167.6 | 162.0 | 135.7 | 90.6 | 55.5 | 37.9 |
| 10° | 226.3 | 225.1 | 222.7 | 219.9 | 214.7 | 208.3 | 198.7 | 166.0 | 101.0 | 52.7 | 34.7 |
| 12.5° | 263.0 | 262.6 | 259.8 | 257.0 | 250.6 | 242.2 | 232.7 | 193.6 | 109.7 | 49.1 | 33.1 |
| 15° | 289.7 | 289.7 | 286.9 | 283.7 | 277.8 | 271.0 | 260.2 | 217.5 | 116.9 | 45.1 | 31.5 |
| 17.5° | 307.7 | 306.9 | 304.9 | 302.5 | 297.7 | 290.9 | 282.5 | 236.7 | 121.7 | 41.1 | 31.1 |
| 20° | 319.3 | 318.9 | 317.3 | 313.7 | 309.7 | 304.5 | 296.9 | 253.0 | 123.7 | 37.5 | 30.7 |
| 22.5° | 356.4 | 353.2 | 347.2 | 339.6 | 330.0 | 317.7 | 307.3 | 265.4 | 122.9 | 33.5 | 29.9 |
| 25° | 386.7 | 385.5 | 379.1 | 369.9 | 357.2 | 341.2 | 324.1 | 273.8 | 118.9 | 30.3 | 29.1 |
| 27.5° | 406.7 | 404.7 | 398.7 | 388.7 | 375.1 | 359.6 | 343.6 | 280.2 | 113.3 | 27.5 | 27.9 |
| 30° | 420.6 | 419.4 | 413.4 | 402.3 | 388.3 | 371.1 | 354.8 | 287.3 | 105.8 | 24.7 | 26.7 |
| 32.5° | 429.4 | 428.2 | 422.2 | 412.3 | 398.7 | 380.7 | 362.0 | 294.5 | 96.6 | 22.3 | 25.5 |
| 35° | 434.2 | 433.0 | 426.2 | 417.4 | 404.7 | 387.1 | 367.2 | 298.1 | 85.4 | 20.4 | 24.3 |
| 37.5° | 440.2 | 437.8 | 428.6 | 417.8 | 405.1 | 388.7 | 368.8 | 297.7 | 74.2 | 18.8 | 23.5 |
| 40° | 450.2 | 443.8 | 430.6 | 416.2 | 403.1 | 386.7 | 367.6 | 294.5 | 61.9 | 17.6 | 22.7 |
| 42.5° | 459.7 | 450.6 | 431.0 | 413.8 | 399.1 | 383.1 | 363.2 | 287.3 | 48.3 | 16.8 | 22.3 |
| 45° | 462.9 | 449.4 | 425.4 | 408.3 | 394.3 | 377.9 | 357.2 | 272.2 | 32.7 | 16.0 | 21.6 |
| 47.5° | 441.8 | 431.8 | 411.9 | 399.1 | 385.9 | 369.9 | 348.4 | 256.2 | 18.8 | 15.2 | 20.8 |
| 50° | 403.1 | 396.7 | 385.5 | 377.5 | 370.3 | 359.2 | 338.0 | 232.7 | 11.2 | 14.4 | 20.0 |
| 52.5° | 367.2 | 365.2 | 357.2 | 350.8 | 346.8 | 341.6 | 322.5 | 196.3 | 9.2 | 14.0 | 19.2 |
| 55° | 318.5 | 312.1 | 310.1 | 307.7 | 316.1 | 315.7 | 289.7 | 134.5 | 8.8 | 13.2 | 18.4 |
| 57.5° | 199.9 | 202.7 | 213.1 | 232.3 | 255.0 | 268.2 | 267.4 | 71.8 | 8.4 | 12.4 | 17.2 |
| 60° | 152.0 | 151.7 | 154.8 | 162.8 | 179.6 | 198.3 | 215.9 | 25.1 | 8.0 | 11.6 | 16.4 |
| 62.5° | 45.5 | 46.7 | 56.3 | 82.6 | 99.0 | 122.1 | 111.3 | 6.0 | 7.6 | 10.4 | 14.8 |
| 65° | 9.2 | 9.6 | 9.6 | 10.8 | 13.2 | 20.0 | 24.3 | 5.2 | 7.2 | 9.6 | 13.6 |
| 67.5° | 4.0 | 4.0 | 4.0 | 4.4 | 4.4 | 5.2 | 4.4 | 4.8 | 6.4 | 8.4 | 12.0 |
| 70° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 4.0 | 4.0 | 5.6 | 7.2 | 10.4 |
| 72.5° | 2.8 | 2.8 | 2.8 | 3.2 | 3.2 | 3.2 | 3.2 | 3.6 | 4.8 | 6.0 | 8.8 |
| 75° | 2.4 | 2.4 | 2.4 | 2.4 | 2.8 | 2.8 | 2.8 | 3.2 | 4.0 | 5.2 | 7.2 |
| 77.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.4 | 2.4 | 2.4 | 3.2 | 4.0 | 6.0 |
| 80° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 2.0 | 2.4 | 3.2 | 4.4 |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.6 | 2.0 | 2.4 | 3.2 |
| 85° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.2 | 1.2 | 1.6 | 2.0 |
| 87.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 1.2 |
| 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° | 58.3 | 58.3 | 58.3 |
| 2.5° | 44.3 | 41.9 | 40.7 |
| 5° | 36.3 | 34.3 | 33.9 |
| 7.5° | 33.5 | 33.1 | 33.1 |
| 10° | 32.7 | 33.1 | 33.5 |
| 12.5° | 32.7 | 33.5 | 33.9 |
| 15° | 32.7 | 33.5 | 33.9 |
| 17.5° | 32.7 | 33.5 | 33.9 |
| 20° | 32.3 | 33.5 | 34.3 |
| 22.5° | 31.9 | 33.5 | 33.9 |
| 25° | 31.5 | 33.5 | 33.9 |
| 27.5° | 31.1 | 33.1 | 33.9 |
| 30° | 30.7 | 33.1 | 34.3 |
| 32.5° | 29.9 | 33.1 | 34.3 |
| 35° | 29.5 | 33.1 | 34.3 |
| 37.5° | 29.1 | 33.1 | 34.7 |
| 40° | 28.7 | 33.1 | 34.7 |
| 42.5° | 28.3 | 33.1 | 34.7 |
| 45° | 27.9 | 32.7 | 34.7 |
| 47.5° | 27.1 | 32.7 | 34.7 |
| 50° | 26.7 | 32.3 | 34.3 |
| 52.5° | 25.9 | 31.9 | 34.3 |
| 55° | 25.1 | 31.1 | 33.1 |
| 57.5° | 23.9 | 29.9 | 31.5 |
| 60° | 22.3 | 28.3 | 29.9 |
| 62.5° | 20.4 | 26.3 | 27.5 |
| 65° | 18.8 | 23.9 | 25.5 |
| 67.5° | 16.4 | 21.2 | 22.7 |
| 70° | 14.4 | 18.4 | 20.0 |
| 72.5° | 12.4 | 15.6 | 17.2 |
| 75° | 10.4 | 12.8 | 14.0 |
| 77.5° | 8.0 | 10.4 | 11.2 |
| 80° | 6.4 | 8.0 | 8.8 |
| 82.5° | 4.4 | 5.6 | 6.0 |
| 85° | 2.8 | 3.6 | 4.0 |
| 87.5° | 1.2 | 1.6 | 1.6 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)