

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: P1317974

Luminaire Tested: LDSQA3D02R559830DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R559830DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

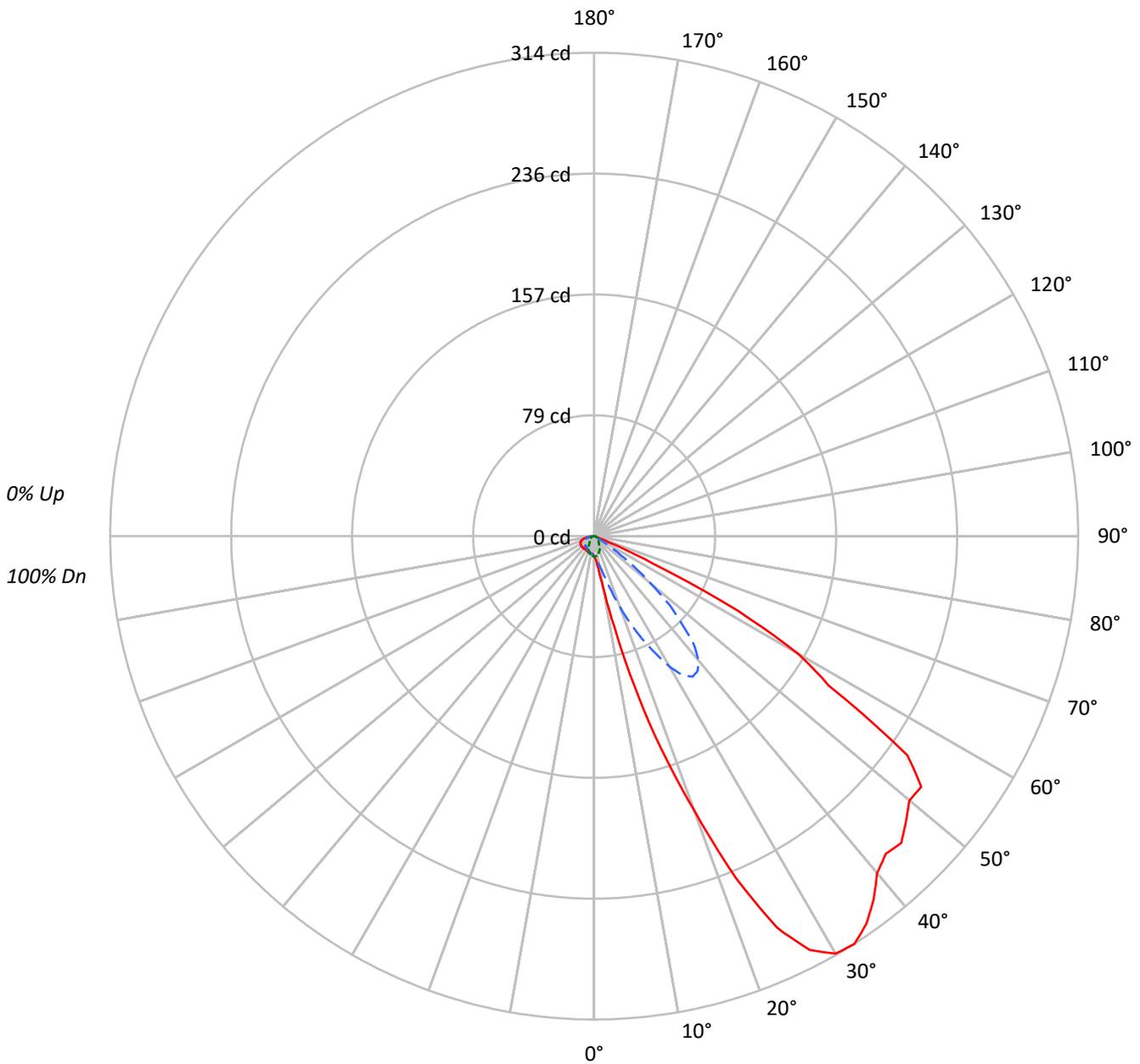
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 202.0 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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 | | | | 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 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 88 | 88 | 88 | 86 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 83 | 78 | 84 | 80 | 77 | 81 | 78 | 75 | 75 | 75 | 75 | 73 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 67 | 77 | 71 | 65 | 74 | 69 | 64 | 72 | 67 | 63 | 63 | 63 | 63 | 61 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 54 | 54 | 54 | 51 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 46 | 46 | 46 | 43 |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 46 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 39 | 39 | 39 | 37 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 34 | 34 | 34 | 32 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | 41 | 35 | 29 | 40 | 34 | 29 | 29 | 29 | 29 | 27 |
| 9 | 54 | 40 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 38 | 31 | 26 | 36 | 30 | 26 | 26 | 26 | 26 | 24 |
| 10 | 50 | 37 | 28 | 23 | 49 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 27 | 23 | 33 | 27 | 23 | 23 | 23 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0° | 2239 | 2239 | 2239 | 2239 | 2239 |
| 5° | 2870 | 2628 | 2247 | 2092 | 2040 |
| 10° | 5841 | 3340 | 2186 | 1994 | 1994 |
| 15° | 17919 | 5117 | 2033 | 1943 | 1997 |
| 20° | 34639 | 8962 | 1833 | 1906 | 1998 |
| 25° | 53321 | 13948 | 1596 | 1824 | 1995 |
| 30° | 62265 | 19489 | 1313 | 1810 | 2068 |
| 35° | 64692 | 23421 | 1093 | 1808 | 2144 |
| 40° | 64209 | 23629 | 1012 | 1888 | 2338 |
| 45° | 68635 | 19558 | 950 | 2046 | 2533 |
| 50° | 71538 | 12914 | 965 | 2197 | 2813 |
| 55° | 74495 | 5615 | 961 | 2402 | 3123 |
| 60° | 52631 | 1274 | 999 | 2652 | 3513 |
| 65° | 17156 | 448 | 937 | 2853 | 3912 |
| 70° | 554 | 453 | 1007 | 3072 | 4482 |
| 75° | 466 | 466 | 799 | 3194 | 4991 |
| 80° | 397 | 496 | 893 | 3174 | 5356 |
| 85° | 395 | 790 | 988 | 3162 | 5335 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 75678 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|--------------|--------------|
| 0°-10° | 1.4 | 0.7 |
| 10°-20° | 8.6 | 4.2 |
| 20°-30° | 28.8 | 14.2 |
| 30°-40° | 47.2 | 23.4 |
| 40°-50° | 52.7 | 26.1 |
| 50°-60° | 44.3 | 21.9 |
| 60°-70° | 15.0 | 7.4 |
| 70°-80° | 2.9 | 1.5 |
| 80°-90° | 1.1 | 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° | 38.7 | 19.2 |
| 0°-40° | 85.9 | 42.5 |
| 0°-60° | 182.9 | 90.6 |
| 0°-90° | 202.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 202.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 13 | 13 | 13 | 13 | 13 | |
| 5° | 17 | 15 | 13 | 12 | 12 | 2 |
| 15° | 100 | 29 | 11 | 11 | 11 | 32 |
| 25° | 281 | 73 | 8 | 10 | 10 | 126 |
| 35° | 308 | 111 | 5 | 9 | 10 | 191 |
| 45° | 282 | 80 | 4 | 8 | 10 | 215 |
| 55° | 248 | 19 | 3 | 8 | 10 | 202 |
| 65° | 42 | 1 | 2 | 7 | 10 | 57 |
| 75° | 1 | 1 | 1 | 5 | 8 | 1 |
| 85° | 0 | 0 | 0 | 2 | 3 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1317974

CATALOG NUMBER: LDSQA3D02R559830DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|------|
| 0° | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| 2.5° | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.1 | 13.6 | 13.2 | 12.7 | 12.5 |
| 5° | 16.6 | 16.6 | 16.6 | 16.4 | 16.4 | 16.1 | 15.2 | 13.9 | 13.0 | 12.3 | 12.1 |
| 7.5° | 21.4 | 21.2 | 20.9 | 20.7 | 20.2 | 20.0 | 16.8 | 14.3 | 12.9 | 12.0 | 11.8 |
| 10° | 33.4 | 33.0 | 32.5 | 30.5 | 28.7 | 27.5 | 19.1 | 14.5 | 12.5 | 11.6 | 11.4 |
| 12.5° | 60.1 | 59.4 | 56.8 | 52.7 | 47.7 | 45.2 | 22.8 | 14.6 | 12.0 | 11.2 | 11.2 |
| 15° | 100.5 | 99.6 | 94.6 | 88.9 | 79.8 | 74.8 | 28.7 | 14.5 | 11.4 | 10.7 | 10.9 |
| 17.5° | 145.1 | 142.6 | 137.4 | 129.9 | 117.6 | 111.7 | 37.5 | 14.1 | 10.7 | 10.4 | 10.7 |
| 20° | 189.0 | 188.3 | 179.7 | 169.6 | 154.4 | 146.5 | 48.9 | 13.6 | 10.0 | 9.8 | 10.4 |
| 22.5° | 240.4 | 237.4 | 228.3 | 217.4 | 196.5 | 186.2 | 61.2 | 12.9 | 9.3 | 9.3 | 10.0 |
| 25° | 280.6 | 277.0 | 269.9 | 257.2 | 237.4 | 226.3 | 73.4 | 12.0 | 8.4 | 8.7 | 9.6 |
| 27.5° | 303.1 | 299.0 | 293.6 | 282.7 | 267.4 | 257.5 | 85.5 | 10.9 | 7.5 | 8.2 | 9.3 |
| 30° | 313.1 | 312.0 | 308.1 | 300.0 | 285.9 | 277.2 | 98.0 | 9.6 | 6.6 | 7.7 | 9.1 |
| 32.5° | 314.1 | 314.7 | 313.1 | 307.9 | 297.2 | 289.7 | 107.3 | 8.6 | 5.9 | 7.3 | 8.7 |
| 35° | 307.7 | 309.7 | 310.7 | 308.6 | 301.6 | 295.6 | 111.4 | 7.3 | 5.2 | 7.0 | 8.6 |
| 37.5° | 297.7 | 301.3 | 304.8 | 305.4 | 301.1 | 297.2 | 110.3 | 6.2 | 4.8 | 6.8 | 8.6 |
| 40° | 285.6 | 288.8 | 296.1 | 300.7 | 299.3 | 296.5 | 105.1 | 5.2 | 4.5 | 6.4 | 8.4 |
| 42.5° | 280.0 | 280.7 | 288.6 | 296.5 | 296.1 | 293.8 | 96.0 | 4.1 | 4.1 | 6.4 | 8.4 |
| 45° | 281.8 | 278.6 | 283.8 | 292.9 | 292.3 | 289.3 | 80.3 | 3.2 | 3.9 | 6.2 | 8.4 |
| 47.5° | 274.3 | 269.9 | 278.6 | 289.3 | 287.4 | 282.9 | 66.4 | 2.3 | 3.7 | 6.1 | 8.2 |
| 50° | 267.0 | 266.3 | 273.1 | 278.4 | 275.8 | 273.3 | 48.2 | 1.8 | 3.6 | 5.9 | 8.2 |
| 52.5° | 267.5 | 266.3 | 267.0 | 266.8 | 261.5 | 258.8 | 33.0 | 1.4 | 3.4 | 5.7 | 8.2 |
| 55° | 248.1 | 244.2 | 240.4 | 241.5 | 241.8 | 240.1 | 18.7 | 1.2 | 3.2 | 5.7 | 8.0 |
| 57.5° | 180.3 | 179.2 | 183.3 | 194.9 | 204.0 | 205.1 | 9.1 | 1.2 | 3.0 | 5.5 | 7.9 |
| 60° | 152.8 | 152.1 | 152.2 | 155.6 | 160.5 | 157.4 | 3.7 | 1.2 | 2.9 | 5.4 | 7.7 |
| 62.5° | 105.3 | 112.3 | 115.1 | 123.0 | 119.8 | 115.5 | 1.4 | 1.4 | 2.7 | 5.0 | 7.5 |
| 65° | 42.1 | 41.9 | 45.9 | 49.6 | 48.5 | 45.3 | 1.1 | 1.2 | 2.3 | 4.6 | 7.0 |
| 67.5° | 9.8 | 8.9 | 7.7 | 6.6 | 5.5 | 4.5 | 1.1 | 1.2 | 2.1 | 4.3 | 6.6 |
| 70° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.9 | 0.9 | 1.2 | 2.0 | 3.9 | 6.1 |
| 72.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.1 | 1.6 | 3.4 | 5.5 |
| 75° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.9 | 1.2 | 2.9 | 4.8 |
| 77.5° | 0.5 | 0.5 | 0.5 | 0.7 | 0.5 | 0.7 | 0.7 | 0.9 | 1.1 | 2.3 | 4.1 |
| 80° | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 0.9 | 2.0 | 3.2 |
| 82.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.7 | 1.4 | 2.3 |
| 85° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.5 | 0.5 | 1.1 | 1.6 |
| 87.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.5 | 0.5 | 0.7 |
| 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° | 13.0 | 13.0 |
| 2.5° | 12.3 | 12.3 |
| 5° | 12.0 | 11.8 |
| 7.5° | 11.6 | 11.6 |
| 10° | 11.4 | 11.4 |
| 12.5° | 11.2 | 11.4 |
| 15° | 11.2 | 11.2 |
| 17.5° | 10.9 | 11.1 |
| 20° | 10.7 | 10.9 |
| 22.5° | 10.5 | 10.7 |
| 25° | 10.4 | 10.5 |
| 27.5° | 10.2 | 10.4 |
| 30° | 10.0 | 10.4 |
| 32.5° | 9.8 | 10.2 |
| 35° | 9.8 | 10.2 |
| 37.5° | 9.8 | 10.4 |
| 40° | 9.8 | 10.4 |
| 42.5° | 9.8 | 10.4 |
| 45° | 9.8 | 10.4 |
| 47.5° | 9.8 | 10.4 |
| 50° | 9.8 | 10.5 |
| 52.5° | 9.8 | 10.5 |
| 55° | 9.8 | 10.4 |
| 57.5° | 9.6 | 10.4 |
| 60° | 9.6 | 10.2 |
| 62.5° | 9.5 | 10.0 |
| 65° | 9.1 | 9.6 |
| 67.5° | 8.7 | 9.5 |
| 70° | 8.2 | 8.9 |
| 72.5° | 7.7 | 8.2 |
| 75° | 7.0 | 7.5 |
| 77.5° | 6.1 | 6.4 |
| 80° | 4.8 | 5.4 |
| 82.5° | 3.7 | 4.1 |
| 85° | 2.5 | 2.7 |
| 87.5° | 1.1 | 1.2 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)