

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: P1319202

Luminaire Tested: LDSQA3D13R209835DE010 3LSQPHRL1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R209835DE010 3LSQPHRL1MB
Description: 3in Adjustable LED luminaire with, R20 optic, 3500K CCT AND, 98CRI , 3LSQPHRL1MB TRIM
Light Source: -
Ballast/Driver: -

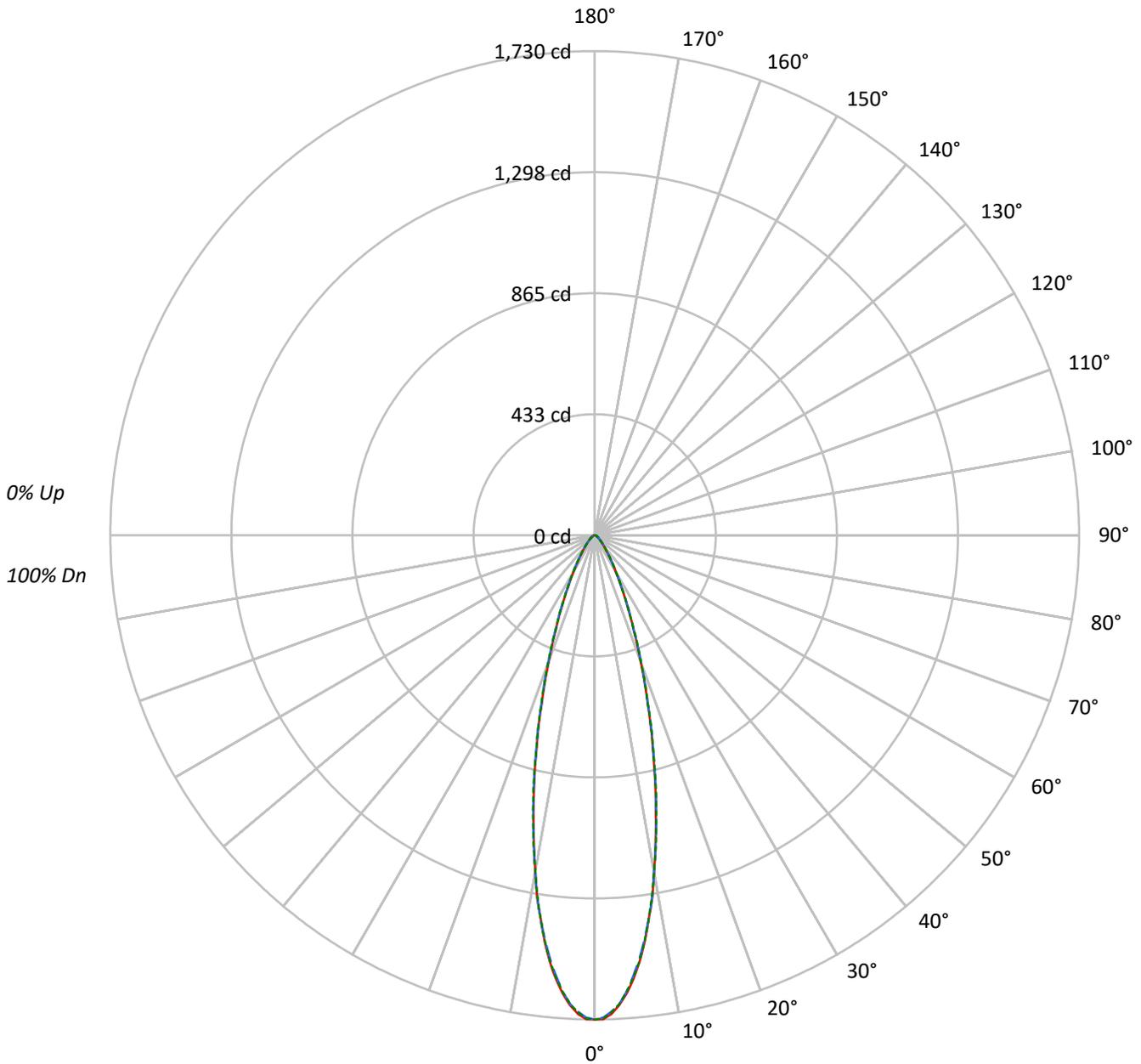
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 608.0 lumens
Efficiency: N/A
Efficacy: 41.9 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
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 (A_{in}): 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

TEST NUMBER: P1319202
CATALOG NUMBER: LDSQA3D13R209835DE010 3LSQPHRL1MB

Luminous Intensity Polar Plot



0% Up
100% Dn

— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P1319202

CATALOG NUMBER: LDSQA3D13R209835DE010 3LSQPHRL1MB

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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 96 | 96 | 96 | 94 |
| 2 | 109 | 104 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 97 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 94 | 92 | 90 | 89 |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 89 | 94 | 91 | 88 | 92 | 89 | 87 | 90 | 87 | 85 | 90 | 87 | 85 | 84 |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 84 | 90 | 86 | 83 | 88 | 84 | 82 | 86 | 83 | 81 | 86 | 83 | 81 | 79 |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 82 | 79 | 86 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 77 | 82 | 79 | 77 | 75 |
| 6 | 92 | 84 | 79 | 75 | 90 | 83 | 78 | 75 | 82 | 77 | 74 | 80 | 77 | 74 | 79 | 76 | 73 | 79 | 76 | 73 | 72 |
| 7 | 88 | 80 | 75 | 71 | 87 | 80 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 76 | 73 | 70 | 69 |
| 8 | 85 | 77 | 72 | 68 | 84 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 73 | 70 | 67 | 73 | 70 | 67 | 66 |
| 9 | 82 | 74 | 69 | 65 | 81 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 65 | 71 | 67 | 64 | 71 | 67 | 64 | 63 |
| 10 | 79 | 71 | 66 | 62 | 78 | 70 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 68 | 65 | 62 | 68 | 65 | 62 | 61 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 297962 | 297962 | 297962 |
| 5° | 274880 | 273307 | 274223 |
| 10° | 213318 | 213580 | 213580 |
| 15° | 144172 | 144849 | 144849 |
| 20° | 87569 | 88669 | 89090 |
| 25° | 51364 | 52086 | 51934 |
| 30° | 29969 | 30566 | 30725 |
| 35° | 18312 | 18775 | 18775 |
| 40° | 11915 | 12095 | 12253 |
| 45° | 8305 | 8476 | 8671 |
| 50° | 6082 | 6296 | 6296 |
| 55° | 4774 | 5014 | 5014 |
| 60° | 4168 | 4168 | 4443 |
| 65° | 3708 | 3708 | 3994 |
| 70° | 3424 | 3424 | 3424 |
| 75° | 2994 | 2994 | 2994 |
| 80° | 2281 | 2281 | 2975 |
| 85° | 1581 | 1581 | 2964 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8671 cd/sqm



TEST NUMBER: P1319202

CATALOG NUMBER: LDSQA3D13R209835DE010 3LSQPHRL1MB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 139.5 | 22.9 |
| 10°-20° | 223.4 | 36.7 |
| 20°-30° | 129.4 | 21.3 |
| 30°-40° | 58.0 | 9.5 |
| 40°-50° | 27.5 | 4.5 |
| 50°-60° | 15.1 | 2.5 |
| 60°-70° | 9.1 | 1.5 |
| 70°-80° | 4.9 | 0.8 |
| 80°-90° | 1.1 | 0.2 |
| 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° | 492.3 | 81.0 |
| 0°-40° | 550.3 | 90.5 |
| 0°-60° | 592.9 | 97.5 |
| 0°-90° | 608.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 608.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1730 | 1730 | 1730 | 1730 | 1730 | |
| 5° | 1590 | 1585 | 1581 | 1584 | 1586 | 140 |
| 15° | 809 | 809 | 812 | 809 | 812 | 223 |
| 25° | 270 | 270 | 274 | 272 | 273 | 128 |
| 35° | 87 | 88 | 89 | 90 | 89 | 57 |
| 45° | 34 | 34 | 35 | 35 | 36 | 27 |
| 55° | 16 | 16 | 17 | 17 | 17 | 15 |
| 65° | 9 | 9 | 9 | 9 | 10 | 9 |
| 75° | 4 | 4 | 4 | 4 | 4 | 5 |
| 85° | 1 | 1 | 1 | 1 | 2 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1319202

CATALOG NUMBER: LDSQA3D13R209835DE010 3LSQPHRL1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1730.1 | 1730.1 | 1730.1 | 1730.1 | 1730.1 |
| 1° | 1729.3 | 1724.8 | 1723.3 | 1721.8 | 1726.3 |
| 2° | 1711.9 | 1706.6 | 1703.6 | 1705.1 | 1705.9 |
| 3° | 1680.9 | 1677.9 | 1677.9 | 1675.6 | 1677.1 |
| 4° | 1640.8 | 1634.7 | 1634.7 | 1635.5 | 1635.5 |
| 5° | 1590.0 | 1584.7 | 1580.9 | 1584.0 | 1586.2 |
| 6° | 1533.2 | 1526.4 | 1523.4 | 1524.2 | 1529.5 |
| 7° | 1463.6 | 1454.5 | 1456.0 | 1459.8 | 1459.8 |
| 8° | 1384.8 | 1384.1 | 1385.6 | 1384.1 | 1385.6 |
| 9° | 1312.2 | 1301.6 | 1310.6 | 1303.1 | 1306.9 |
| 10° | 1219.8 | 1219.0 | 1221.3 | 1223.6 | 1221.3 |
| 12.5° | 1009.3 | 1013.1 | 1014.6 | 1011.6 | 1018.4 |
| 15° | 808.6 | 808.6 | 812.4 | 808.6 | 812.4 |
| 17.5° | 629.2 | 628.4 | 631.5 | 628.4 | 633.0 |
| 20° | 477.8 | 483.1 | 483.8 | 483.8 | 486.1 |
| 22.5° | 360.4 | 360.4 | 363.4 | 364.2 | 362.7 |
| 25° | 270.3 | 270.3 | 274.1 | 271.8 | 273.3 |
| 27.5° | 199.9 | 201.4 | 204.4 | 205.9 | 205.9 |
| 30° | 150.7 | 151.4 | 153.7 | 154.5 | 154.5 |
| 32.5° | 113.6 | 115.1 | 116.6 | 117.4 | 118.1 |
| 35° | 87.1 | 87.8 | 89.3 | 90.1 | 89.3 |
| 37.5° | 66.6 | 67.4 | 68.9 | 69.7 | 69.7 |
| 40° | 53.0 | 53.0 | 53.8 | 54.5 | 54.5 |
| 42.5° | 41.6 | 42.4 | 42.4 | 43.2 | 43.2 |
| 45° | 34.1 | 34.1 | 34.8 | 34.8 | 35.6 |
| 47.5° | 27.3 | 27.3 | 28.0 | 28.8 | 28.8 |
| 50° | 22.7 | 22.7 | 23.5 | 23.5 | 23.5 |
| 52.5° | 18.9 | 18.9 | 19.7 | 19.7 | 19.7 |
| 55° | 15.9 | 15.9 | 16.7 | 16.7 | 16.7 |
| 57.5° | 13.6 | 13.6 | 14.4 | 14.4 | 14.4 |
| 60° | 12.1 | 12.1 | 12.1 | 12.1 | 12.9 |
| 62.5° | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 |
| 65° | 9.1 | 9.1 | 9.1 | 9.1 | 9.8 |
| 67.5° | 7.6 | 7.6 | 7.6 | 7.6 | 8.3 |
| 70° | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 |
| 72.5° | 5.3 | 5.3 | 5.3 | 6.1 | 6.1 |
| 75° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| 77.5° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 |
| 80° | 2.3 | 2.3 | 2.3 | 3.0 | 3.0 |
| 82.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 85° | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)