

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: P1313559

Luminaire Tested: LDSQA3D09R509727DE010 3LSQCDR1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R509727DE010 3LSQCDR1MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 97CRI , 3LSQCDR1MB TRIM
Light Source: -
Ballast/Driver: -

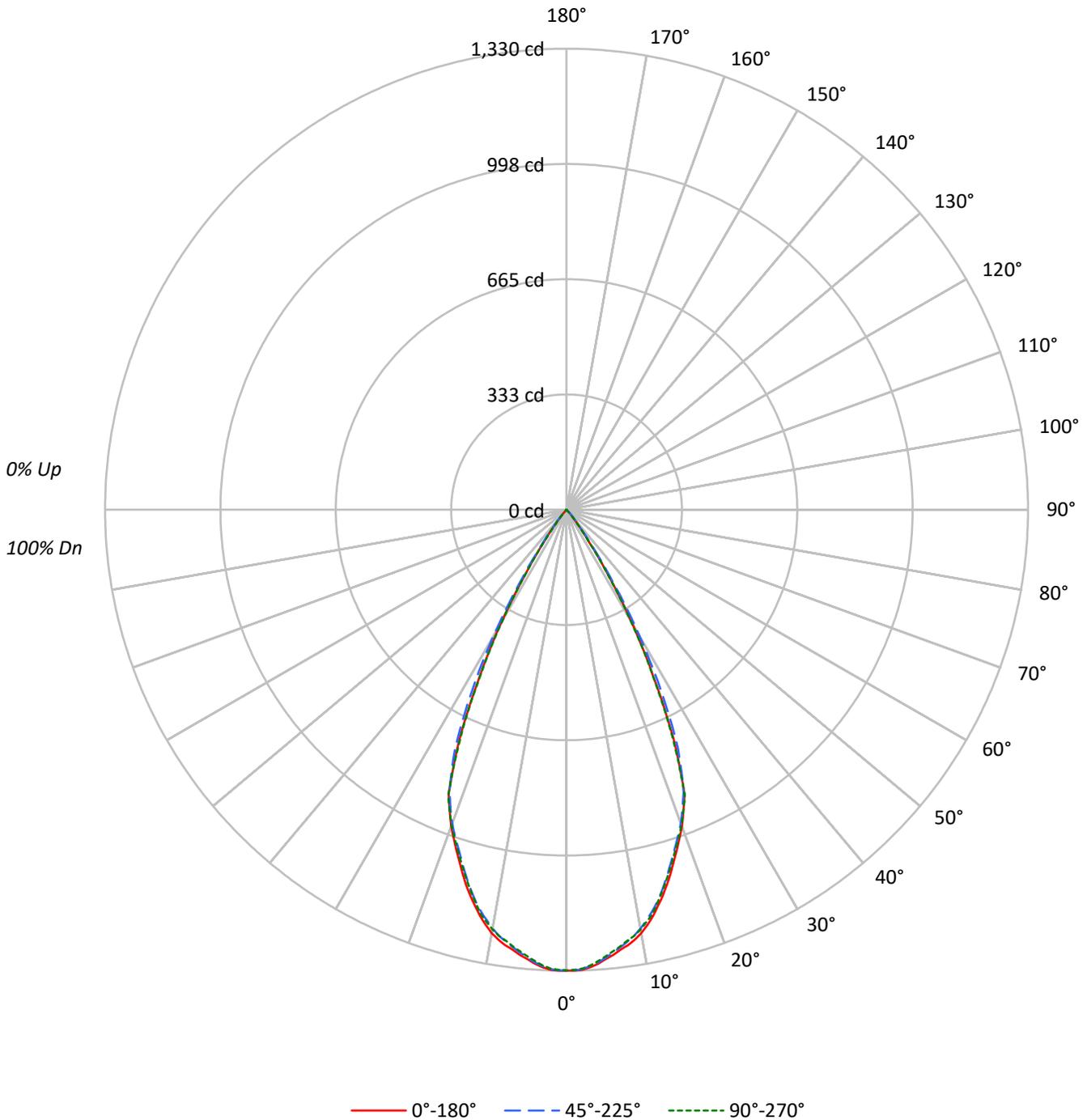
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 856.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.78
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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 | | | | 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 | 112 | 109 | 107 | 112 | 110 | 108 | 106 | 106 | 104 | 102 | 102 | 101 | 99 | 98 | 97 | 97 | 97 | 97 | 97 | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 98 | 95 | 97 | 95 | 93 | 95 | 93 | 91 | 91 | 91 | 91 | 90 |
| 3 | 105 | 99 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 92 | 89 | 93 | 90 | 88 | 91 | 88 | 86 | 86 | 86 | 86 | 85 |
| 4 | 100 | 94 | 89 | 85 | 99 | 93 | 88 | 85 | 90 | 87 | 84 | 89 | 85 | 83 | 87 | 84 | 82 | 82 | 82 | 82 | 80 |
| 5 | 96 | 89 | 84 | 80 | 95 | 88 | 83 | 79 | 86 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 77 | 77 | 77 | 76 |
| 6 | 92 | 84 | 79 | 75 | 91 | 83 | 79 | 75 | 82 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 73 | 73 | 73 | 72 |
| 7 | 88 | 80 | 75 | 71 | 87 | 79 | 74 | 71 | 78 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 70 | 70 | 70 | 70 | 69 |
| 8 | 85 | 76 | 71 | 67 | 83 | 76 | 71 | 67 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 66 | 66 | 66 | 65 |
| 9 | 81 | 73 | 67 | 64 | 80 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 70 | 66 | 63 | 63 | 63 | 63 | 62 |
| 10 | 78 | 69 | 64 | 61 | 77 | 69 | 64 | 61 | 68 | 64 | 60 | 67 | 63 | 60 | 67 | 63 | 60 | 60 | 60 | 60 | 59 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 228936 | 228936 | 228936 |
| 5° | 224935 | 224312 | 223673 |
| 10° | 216938 | 214577 | 215014 |
| 15° | 199569 | 197055 | 197608 |
| 20° | 178199 | 176513 | 177539 |
| 25° | 138700 | 144515 | 137180 |
| 30° | 75131 | 83901 | 73799 |
| 35° | 23695 | 28194 | 23169 |
| 40° | 5238 | 7307 | 4946 |
| 45° | 146 | 2241 | 146 |
| 50° | 0 | 322 | 0 |
| 55° | 0 | 0 | 0 |
| 60° | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 |
| 70° | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2241 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 121.8 | 14.2 |
| 10°-20° | 309.4 | 36.1 |
| 20°-30° | 325.9 | 38.1 |
| 30°-40° | 93.1 | 10.9 |
| 40°-50° | 5.8 | 0.7 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 757.1 | 88.4 |
| 0°-40° | 850.2 | 99.3 |
| 0°-60° | 856.0 | 100.0 |
| 0°-90° | 856.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 856.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1329 | 1329 | 1329 | 1329 | 1329 | |
| 5° | 1301 | 1300 | 1298 | 1296 | 1294 | 122 |
| 15° | 1119 | 1112 | 1105 | 1107 | 1108 | 312 |
| 25° | 730 | 757 | 760 | 752 | 722 | 319 |
| 35° | 113 | 121 | 134 | 114 | 110 | 88 |
| 45° | 1 | 3 | 9 | 3 | 1 | 4 |
| 55° | 0 | 0 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P1313559
 CATALOG NUMBER: LDSQA3D09R509727DE010 3LSQCDR1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1329.3 | 1329.3 | 1329.3 | 1329.3 | 1329.3 |
| 1° | 1329.9 | 1330.5 | 1329.3 | 1330.5 | 1327.5 |
| 2° | 1328.1 | 1326.8 | 1325.6 | 1326.2 | 1324.4 |
| 3° | 1321.3 | 1320.7 | 1318.3 | 1318.9 | 1316.4 |
| 4° | 1312.8 | 1310.9 | 1309.1 | 1307.9 | 1305.4 |
| 5° | 1301.1 | 1299.9 | 1297.5 | 1296.2 | 1293.8 |
| 6° | 1291.3 | 1288.9 | 1284.6 | 1283.4 | 1280.9 |
| 7° | 1278.5 | 1277.2 | 1271.7 | 1270.5 | 1269.3 |
| 8° | 1268.7 | 1265.0 | 1258.3 | 1258.9 | 1255.8 |
| 9° | 1255.8 | 1250.9 | 1244.2 | 1244.2 | 1244.8 |
| 10° | 1240.5 | 1233.2 | 1227.0 | 1228.9 | 1229.5 |
| 11° | 1220.3 | 1215.4 | 1206.2 | 1210.5 | 1210.5 |
| 12° | 1198.3 | 1192.1 | 1185.4 | 1189.1 | 1191.5 |
| 13° | 1172.5 | 1167.6 | 1161.5 | 1165.2 | 1164.0 |
| 14° | 1147.4 | 1138.3 | 1134.0 | 1138.9 | 1137.0 |
| 15° | 1119.3 | 1111.9 | 1105.2 | 1107.0 | 1108.3 |
| 17.5° | 1044.0 | 1036.0 | 1031.1 | 1031.7 | 1037.2 |
| 20° | 972.3 | 969.3 | 963.1 | 965.6 | 968.7 |
| 22.5° | 887.8 | 889.1 | 881.7 | 883.5 | 890.9 |
| 25° | 729.9 | 756.8 | 760.5 | 751.9 | 721.9 |
| 27.5° | 540.7 | 581.1 | 593.3 | 573.7 | 537.0 |
| 30° | 377.8 | 388.8 | 421.9 | 384.5 | 371.1 |
| 32.5° | 221.7 | 238.2 | 255.9 | 230.2 | 221.0 |
| 35° | 112.7 | 120.6 | 134.1 | 113.9 | 110.2 |
| 37.5° | 52.0 | 55.7 | 61.2 | 52.0 | 49.0 |
| 40° | 23.3 | 27.6 | 32.5 | 26.3 | 22.0 |
| 42.5° | 7.3 | 12.9 | 17.1 | 11.6 | 6.7 |
| 45° | 0.6 | 3.1 | 9.2 | 3.1 | 0.6 |
| 47.5° | 0.0 | 0.6 | 3.7 | 0.6 | 0.0 |
| 50° | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 |
| 52.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)