

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: P1317855

Luminaire Tested: LDSQA3D20R709827D010 3LSQCDR1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-43)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R709827D010 3LSQCDR1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , 3LSQCDR1MW TRIM
Light Source: -
Ballast/Driver: -

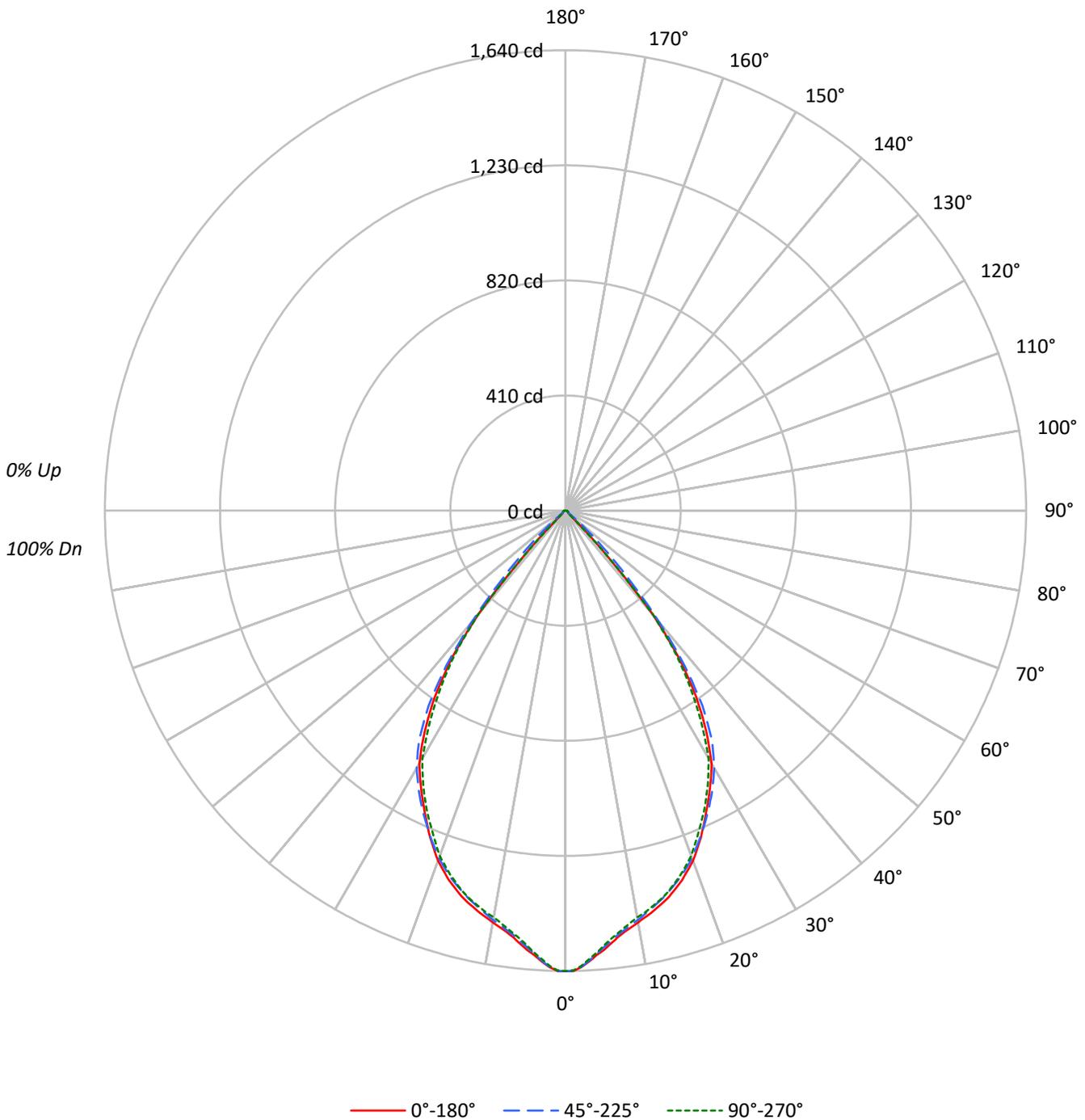
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1749.0 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 0.98 / 1.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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

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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 | 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 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 95 | 95 | 95 | 95 | 93 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 87 | 87 | 87 | 86 |
| 3 | 101 | 95 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 86 | 83 | 80 | 80 | 80 | 80 | 79 |
| 4 | 96 | 88 | 82 | 77 | 94 | 87 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 75 | 81 | 77 | 74 | 74 | 74 | 74 | 73 |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 69 | 69 | 69 | 69 | 67 |
| 6 | 86 | 76 | 70 | 65 | 84 | 75 | 69 | 65 | 74 | 69 | 65 | 72 | 68 | 64 | 71 | 67 | 64 | 64 | 64 | 64 | 62 |
| 7 | 81 | 71 | 65 | 60 | 80 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 59 | 59 | 59 | 58 |
| 8 | 77 | 67 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 56 | 64 | 59 | 55 | 63 | 58 | 55 | 55 | 55 | 55 | 54 |
| 9 | 73 | 62 | 56 | 52 | 72 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 59 | 55 | 51 | 51 | 51 | 51 | 50 |
| 10 | 69 | 59 | 53 | 48 | 68 | 58 | 52 | 48 | 57 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 48 | 48 | 48 | 47 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 282497 | 282497 | 282497 |
| 5° | 271543 | 270057 | 269089 |
| 10° | 260500 | 259014 | 257283 |
| 15° | 253950 | 251151 | 250901 |
| 20° | 243317 | 241502 | 239926 |
| 25° | 225277 | 226892 | 222559 |
| 30° | 206920 | 210599 | 202684 |
| 35° | 170635 | 178708 | 164075 |
| 40° | 108656 | 116952 | 108656 |
| 45° | 7623 | 50539 | 8305 |
| 50° | 3430 | 10289 | 3430 |
| 55° | 3843 | 3843 | 3843 |
| 60° | 3927 | 3927 | 3927 |
| 65° | 3464 | 4034 | 3464 |
| 70° | 3575 | 4280 | 3575 |
| 75° | 3793 | 3793 | 3793 |
| 80° | 4265 | 4265 | 4265 |
| 85° | 2766 | 5533 | 2766 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 50539 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 146.4 | 8.4 |
| 10°-20° | 396.3 | 22.7 |
| 20°-30° | 544.7 | 31.1 |
| 30°-40° | 498.9 | 28.5 |
| 40°-50° | 132.4 | 7.6 |
| 50°-60° | 11.8 | 0.7 |
| 60°-70° | 9.6 | 0.5 |
| 70°-80° | 6.4 | 0.4 |
| 80°-90° | 2.4 | 0.1 |
| 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° | 1087.4 | 62.2 |
| 0°-40° | 1586.3 | 90.7 |
| 0°-60° | 1730.5 | 98.9 |
| 0°-90° | 1749.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1749.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1640 | 1640 | 1640 | 1640 | 1640 | |
| 5° | 1571 | 1564 | 1562 | 1559 | 1556 | 147 |
| 15° | 1424 | 1412 | 1409 | 1409 | 1407 | 400 |
| 25° | 1186 | 1190 | 1194 | 1180 | 1171 | 545 |
| 35° | 812 | 824 | 850 | 812 | 780 | 492 |
| 45° | 31 | 107 | 208 | 108 | 34 | 94 |
| 55° | 13 | 13 | 13 | 13 | 13 | 11 |
| 65° | 8 | 10 | 10 | 10 | 8 | 9 |
| 75° | 6 | 6 | 6 | 6 | 6 | 6 |
| 85° | 1 | 3 | 3 | 3 | 1 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1317855
 CATALOG NUMBER: LDSQA3D20R709827D010 3LSQCDR1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1640.3 | 1640.3 | 1640.3 | 1640.3 | 1640.3 |
| 1° | 1640.3 | 1637.5 | 1640.3 | 1640.3 | 1637.5 |
| 2° | 1627.5 | 1624.7 | 1626.1 | 1624.7 | 1623.3 |
| 3° | 1609.0 | 1604.8 | 1606.2 | 1603.4 | 1600.5 |
| 4° | 1587.7 | 1583.5 | 1583.5 | 1582.0 | 1579.2 |
| 5° | 1570.7 | 1563.6 | 1562.1 | 1559.3 | 1556.5 |
| 6° | 1550.8 | 1543.7 | 1542.2 | 1538.0 | 1535.1 |
| 7° | 1530.9 | 1525.2 | 1523.8 | 1518.1 | 1518.1 |
| 8° | 1515.2 | 1508.1 | 1508.1 | 1501.0 | 1501.0 |
| 9° | 1502.4 | 1493.9 | 1493.9 | 1488.2 | 1485.4 |
| 10° | 1489.6 | 1481.1 | 1481.1 | 1474.0 | 1471.2 |
| 11° | 1476.9 | 1469.7 | 1466.9 | 1462.6 | 1461.2 |
| 12° | 1465.5 | 1455.5 | 1452.7 | 1451.3 | 1448.4 |
| 13° | 1451.3 | 1441.3 | 1438.5 | 1437.1 | 1435.6 |
| 14° | 1438.5 | 1425.7 | 1424.3 | 1421.4 | 1422.8 |
| 15° | 1424.3 | 1411.5 | 1408.6 | 1408.6 | 1407.2 |
| 17.5° | 1380.2 | 1371.7 | 1367.4 | 1364.6 | 1361.7 |
| 20° | 1327.6 | 1320.5 | 1317.7 | 1312.0 | 1309.1 |
| 22.5° | 1259.4 | 1258.0 | 1256.5 | 1249.4 | 1238.1 |
| 25° | 1185.5 | 1189.7 | 1194.0 | 1179.8 | 1171.2 |
| 27.5° | 1114.4 | 1125.8 | 1130.0 | 1115.8 | 1097.3 |
| 30° | 1040.5 | 1050.4 | 1059.0 | 1039.1 | 1019.2 |
| 32.5° | 933.9 | 958.0 | 970.8 | 948.1 | 902.6 |
| 35° | 811.6 | 824.4 | 850.0 | 811.6 | 780.4 |
| 37.5° | 669.5 | 676.6 | 696.5 | 670.9 | 649.6 |
| 40° | 483.3 | 504.6 | 520.2 | 504.6 | 483.3 |
| 42.5° | 217.5 | 304.2 | 344.0 | 321.2 | 227.4 |
| 45° | 31.3 | 106.6 | 207.5 | 108.0 | 34.1 |
| 47.5° | 12.8 | 17.1 | 108.0 | 15.6 | 12.8 |
| 50° | 12.8 | 12.8 | 38.4 | 12.8 | 12.8 |
| 52.5° | 12.8 | 12.8 | 14.2 | 12.8 | 12.8 |
| 55° | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 |
| 57.5° | 11.4 | 11.4 | 12.8 | 11.4 | 11.4 |
| 60° | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 |
| 62.5° | 9.9 | 11.4 | 11.4 | 11.4 | 9.9 |
| 65° | 8.5 | 9.9 | 9.9 | 9.9 | 8.5 |
| 67.5° | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 70° | 7.1 | 8.5 | 8.5 | 8.5 | 7.1 |
| 72.5° | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| 75° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 77.5° | 4.3 | 5.7 | 5.7 | 5.7 | 4.3 |
| 80° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 82.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 85° | 1.4 | 2.8 | 2.8 | 2.8 | 1.4 |
| 87.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |



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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)