

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: P1319456

Luminaire Tested: LDSQA3D17R709835DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319456
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: LDSQA3D17R709835DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

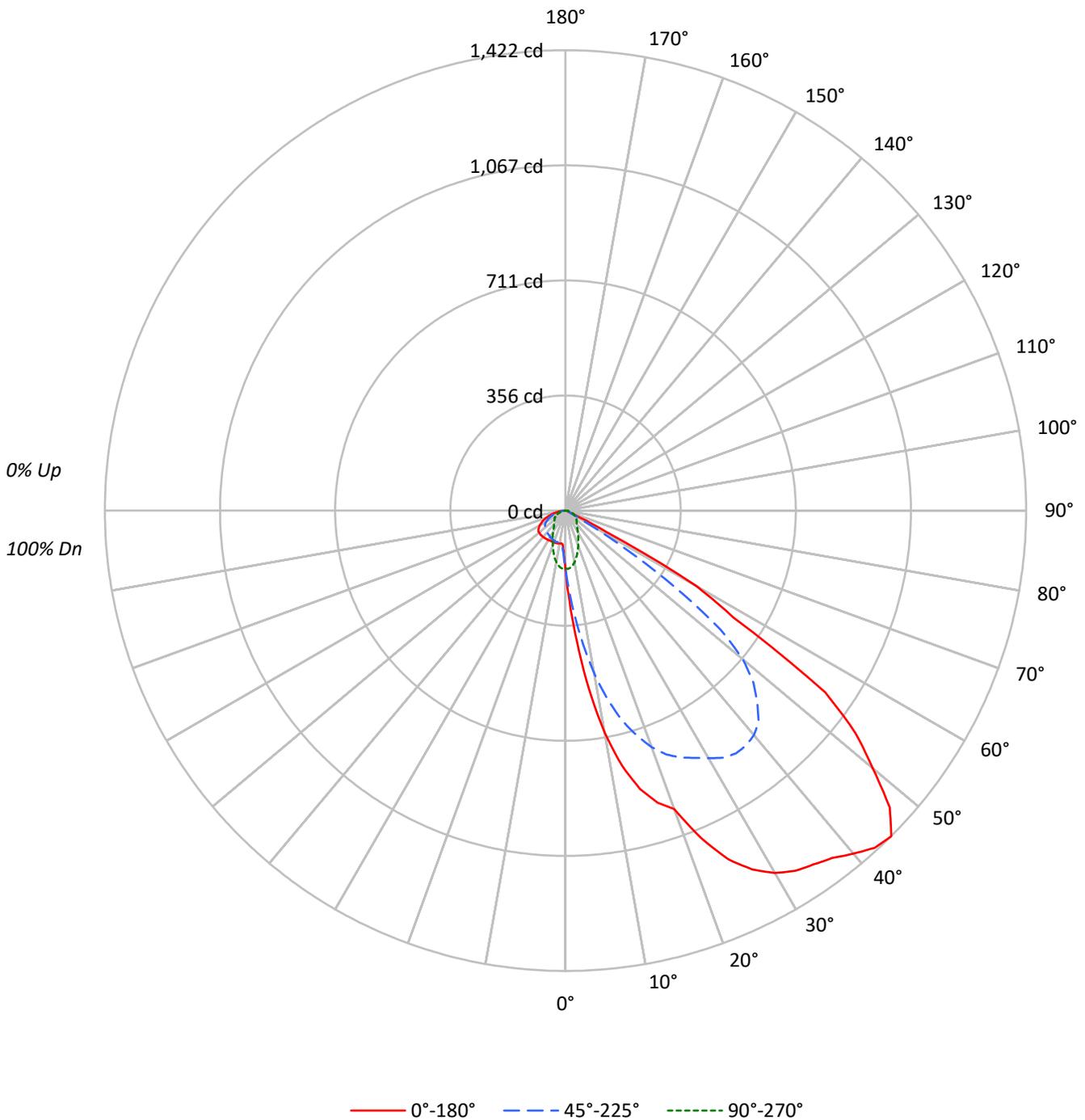
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1229.0 lumens
Efficiency: N/A
Efficacy: 60.2 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): 20.4
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

TEST NUMBER: P1319456
CATALOG NUMBER: LDSQA3D17R709835DE010 3LSQCA45R 1MB

Luminous Intensity Polar Plot





TEST NUMBER: P1319456

CATALOG NUMBER: LDSQA3D17R709835DE010 3LSQCA45R 1MB

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 30828 | 30828 | 30828 | 30828 | 30828 |
| 5° | 70172 | 56169 | 30531 | 19293 | 18014 |
| 10° | 121576 | 89206 | 28313 | 17575 | 18013 |
| 15° | 158721 | 119157 | 24712 | 17919 | 18579 |
| 20° | 179775 | 142478 | 21132 | 18199 | 19336 |
| 25° | 225790 | 159850 | 17710 | 18414 | 19801 |
| 30° | 257014 | 175559 | 15114 | 18773 | 20980 |
| 35° | 280488 | 192584 | 13140 | 19069 | 22181 |
| 40° | 310949 | 203440 | 12140 | 19852 | 23988 |
| 45° | 346439 | 203689 | 11934 | 20897 | 25988 |
| 50° | 331806 | 191544 | 11816 | 22024 | 28267 |
| 55° | 293805 | 124068 | 12161 | 23180 | 30567 |
| 60° | 160925 | 26591 | 12262 | 23663 | 31689 |
| 65° | 11492 | 6479 | 11981 | 23473 | 31990 |
| 70° | 5539 | 6194 | 11128 | 22206 | 30867 |
| 75° | 4924 | 6521 | 10580 | 21227 | 28546 |
| 80° | 4860 | 6050 | 9720 | 19439 | 26778 |
| 85° | 4940 | 7311 | 9683 | 16994 | 24305 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 346439 cd/sqm



TEST NUMBER: P1319456

CATALOG NUMBER: LDSQA3D17R709835DE010 3LSQCA45R 1MB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.4 | 1.9 |
| 10°-20° | 99.9 | 8.1 |
| 20°-30° | 191.6 | 15.6 |
| 30°-40° | 271.0 | 22.0 |
| 40°-50° | 306.5 | 24.9 |
| 50°-60° | 242.8 | 19.8 |
| 60°-70° | 65.5 | 5.3 |
| 70°-80° | 21.7 | 1.8 |
| 80°-90° | 6.7 | 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° | 314.9 | 25.6 |
| 0°-40° | 585.9 | 47.7 |
| 0°-60° | 1135.2 | 92.4 |
| 0°-90° | 1229.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1229.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 179 | 179 | 179 | 179 | 179 | |
| 5° | 406 | 325 | 177 | 112 | 104 | 48 |
| 15° | 890 | 668 | 139 | 100 | 104 | 251 |
| 25° | 1188 | 841 | 93 | 97 | 104 | 545 |
| 35° | 1334 | 916 | 62 | 91 | 106 | 840 |
| 45° | 1422 | 836 | 49 | 86 | 107 | 1064 |
| 55° | 978 | 413 | 40 | 77 | 102 | 794 |
| 65° | 28 | 16 | 29 | 58 | 78 | 102 |
| 75° | 7 | 10 | 16 | 32 | 43 | 8 |
| 85° | 2 | 4 | 5 | 9 | 12 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1319456

CATALOG NUMBER: LDSQA3D17R709835DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--------|
| 0° | 179.0 | 179.0 | 179.0 | 179.0 | 179.0 | 179.0 | 179.0 | 179.0 | 179.0 | 179.0 | 179.0 |
| 2.5° | 278.3 | 278.3 | 277.1 | 272.2 | 269.8 | 263.6 | 258.7 | 245.2 | 212.1 | 180.2 | 154.5 |
| 5° | 405.9 | 412.0 | 403.4 | 402.2 | 394.8 | 383.8 | 376.4 | 324.9 | 245.2 | 176.6 | 132.4 |
| 7.5° | 556.7 | 559.1 | 556.7 | 544.4 | 533.4 | 515.0 | 497.8 | 416.9 | 278.3 | 170.4 | 116.5 |
| 10° | 695.2 | 691.6 | 684.2 | 675.6 | 659.7 | 640.1 | 610.6 | 510.1 | 310.2 | 161.9 | 106.7 |
| 12.5° | 808.0 | 806.8 | 798.2 | 789.7 | 770.0 | 744.3 | 714.9 | 594.7 | 337.2 | 150.8 | 101.8 |
| 15° | 890.2 | 890.2 | 881.6 | 871.8 | 853.4 | 832.6 | 799.5 | 668.3 | 359.3 | 138.6 | 96.9 |
| 17.5° | 945.4 | 942.9 | 936.8 | 929.4 | 914.7 | 893.9 | 868.1 | 727.1 | 374.0 | 126.3 | 95.6 |
| 20° | 980.9 | 979.7 | 974.8 | 963.8 | 951.5 | 935.6 | 912.3 | 777.4 | 380.1 | 115.3 | 94.4 |
| 22.5° | 1095.0 | 1085.2 | 1066.8 | 1043.5 | 1014.0 | 976.0 | 944.2 | 815.4 | 377.7 | 103.0 | 92.0 |
| 25° | 1188.2 | 1184.5 | 1164.9 | 1136.7 | 1097.4 | 1048.4 | 995.7 | 841.2 | 365.4 | 93.2 | 89.5 |
| 27.5° | 1249.5 | 1243.3 | 1224.9 | 1194.3 | 1152.6 | 1104.8 | 1055.7 | 860.8 | 348.2 | 84.6 | 85.8 |
| 30° | 1292.4 | 1288.7 | 1270.3 | 1236.0 | 1193.1 | 1140.3 | 1090.1 | 882.8 | 324.9 | 76.0 | 82.2 |
| 32.5° | 1319.4 | 1315.7 | 1297.3 | 1266.6 | 1224.9 | 1169.8 | 1112.1 | 904.9 | 296.7 | 68.7 | 78.5 |
| 35° | 1334.1 | 1330.4 | 1309.6 | 1282.6 | 1243.3 | 1189.4 | 1128.1 | 916.0 | 262.4 | 62.5 | 74.8 |
| 37.5° | 1352.5 | 1345.1 | 1316.9 | 1283.8 | 1244.6 | 1194.3 | 1133.0 | 914.7 | 228.1 | 57.6 | 72.3 |
| 40° | 1383.1 | 1363.5 | 1323.0 | 1278.9 | 1238.4 | 1188.2 | 1129.3 | 904.9 | 190.1 | 54.0 | 69.9 |
| 42.5° | 1412.6 | 1384.4 | 1324.3 | 1271.5 | 1226.2 | 1177.1 | 1115.8 | 882.8 | 148.4 | 51.5 | 68.7 |
| 45° | 1422.4 | 1380.7 | 1307.1 | 1254.4 | 1211.5 | 1161.2 | 1097.4 | 836.3 | 100.5 | 49.0 | 66.2 |
| 47.5° | 1357.4 | 1326.7 | 1265.4 | 1226.2 | 1185.7 | 1136.7 | 1070.5 | 787.2 | 57.6 | 46.6 | 63.8 |
| 50° | 1238.4 | 1218.8 | 1184.5 | 1160.0 | 1137.9 | 1103.6 | 1038.6 | 714.9 | 34.3 | 44.1 | 61.3 |
| 52.5° | 1128.1 | 1122.0 | 1097.4 | 1077.8 | 1065.5 | 1049.6 | 990.7 | 603.3 | 28.2 | 42.9 | 58.9 |
| 55° | 978.5 | 958.9 | 952.7 | 945.4 | 971.1 | 969.9 | 890.2 | 413.2 | 27.0 | 40.5 | 56.4 |
| 57.5° | 614.3 | 622.9 | 654.8 | 713.6 | 783.5 | 824.0 | 821.5 | 220.7 | 25.7 | 38.0 | 52.7 |
| 60° | 467.2 | 465.9 | 475.8 | 500.3 | 551.8 | 609.4 | 663.4 | 77.2 | 24.5 | 35.6 | 50.3 |
| 62.5° | 139.8 | 143.5 | 172.9 | 253.8 | 304.1 | 375.2 | 342.1 | 18.4 | 23.3 | 31.9 | 45.4 |
| 65° | 28.2 | 29.4 | 29.4 | 33.1 | 40.5 | 61.3 | 74.8 | 15.9 | 22.1 | 29.4 | 41.7 |
| 67.5° | 12.3 | 12.3 | 12.3 | 13.5 | 13.5 | 15.9 | 13.5 | 14.7 | 19.6 | 25.7 | 36.8 |
| 70° | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 12.3 | 12.3 | 17.2 | 22.1 | 31.9 |
| 72.5° | 8.6 | 8.6 | 8.6 | 9.8 | 9.8 | 9.8 | 9.8 | 11.0 | 14.7 | 18.4 | 27.0 |
| 75° | 7.4 | 7.4 | 7.4 | 7.4 | 8.6 | 8.6 | 8.6 | 9.8 | 12.3 | 15.9 | 22.1 |
| 77.5° | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 7.4 | 7.4 | 7.4 | 9.8 | 12.3 | 18.4 |
| 80° | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 | 6.1 | 7.4 | 9.8 | 13.5 |
| 82.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 4.9 | 6.1 | 7.4 | 9.8 |
| 85° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 3.7 | 3.7 | 4.9 | 6.1 |
| 87.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 | 2.5 | 2.5 | 3.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P1319456

CATALOG NUMBER: LDSQA3D17R709835DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|-------|--------|-------|
| 0° | 179.0 | 179.0 | 179.0 |
| 2.5° | 136.1 | 128.7 | 125.1 |
| 5° | 111.6 | 105.5 | 104.2 |
| 7.5° | 103.0 | 101.8 | 101.8 |
| 10° | 100.5 | 101.8 | 103.0 |
| 12.5° | 100.5 | 103.0 | 104.2 |
| 15° | 100.5 | 103.0 | 104.2 |
| 17.5° | 100.5 | 103.0 | 104.2 |
| 20° | 99.3 | 103.0 | 105.5 |
| 22.5° | 98.1 | 103.0 | 104.2 |
| 25° | 96.9 | 103.0 | 104.2 |
| 27.5° | 95.6 | 101.8 | 104.2 |
| 30° | 94.4 | 101.8 | 105.5 |
| 32.5° | 92.0 | 101.8 | 105.5 |
| 35° | 90.7 | 101.8 | 105.5 |
| 37.5° | 89.5 | 101.8 | 106.7 |
| 40° | 88.3 | 101.8 | 106.7 |
| 42.5° | 87.1 | 101.8 | 106.7 |
| 45° | 85.8 | 100.5 | 106.7 |
| 47.5° | 83.4 | 100.5 | 106.7 |
| 50° | 82.2 | 99.3 | 105.5 |
| 52.5° | 79.7 | 98.1 | 105.5 |
| 55° | 77.2 | 95.6 | 101.8 |
| 57.5° | 73.6 | 92.0 | 96.9 |
| 60° | 68.7 | 87.1 | 92.0 |
| 62.5° | 62.5 | 80.9 | 84.6 |
| 65° | 57.6 | 73.6 | 78.5 |
| 67.5° | 50.3 | 65.0 | 69.9 |
| 70° | 44.1 | 56.4 | 61.3 |
| 72.5° | 38.0 | 47.8 | 52.7 |
| 75° | 31.9 | 39.2 | 42.9 |
| 77.5° | 24.5 | 31.9 | 34.3 |
| 80° | 19.6 | 24.5 | 27.0 |
| 82.5° | 13.5 | 17.2 | 18.4 |
| 85° | 8.6 | 11.0 | 12.3 |
| 87.5° | 3.7 | 4.9 | 4.9 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)