

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: P1320292

Luminaire Tested: LDSQA3D17R459840DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R459840DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

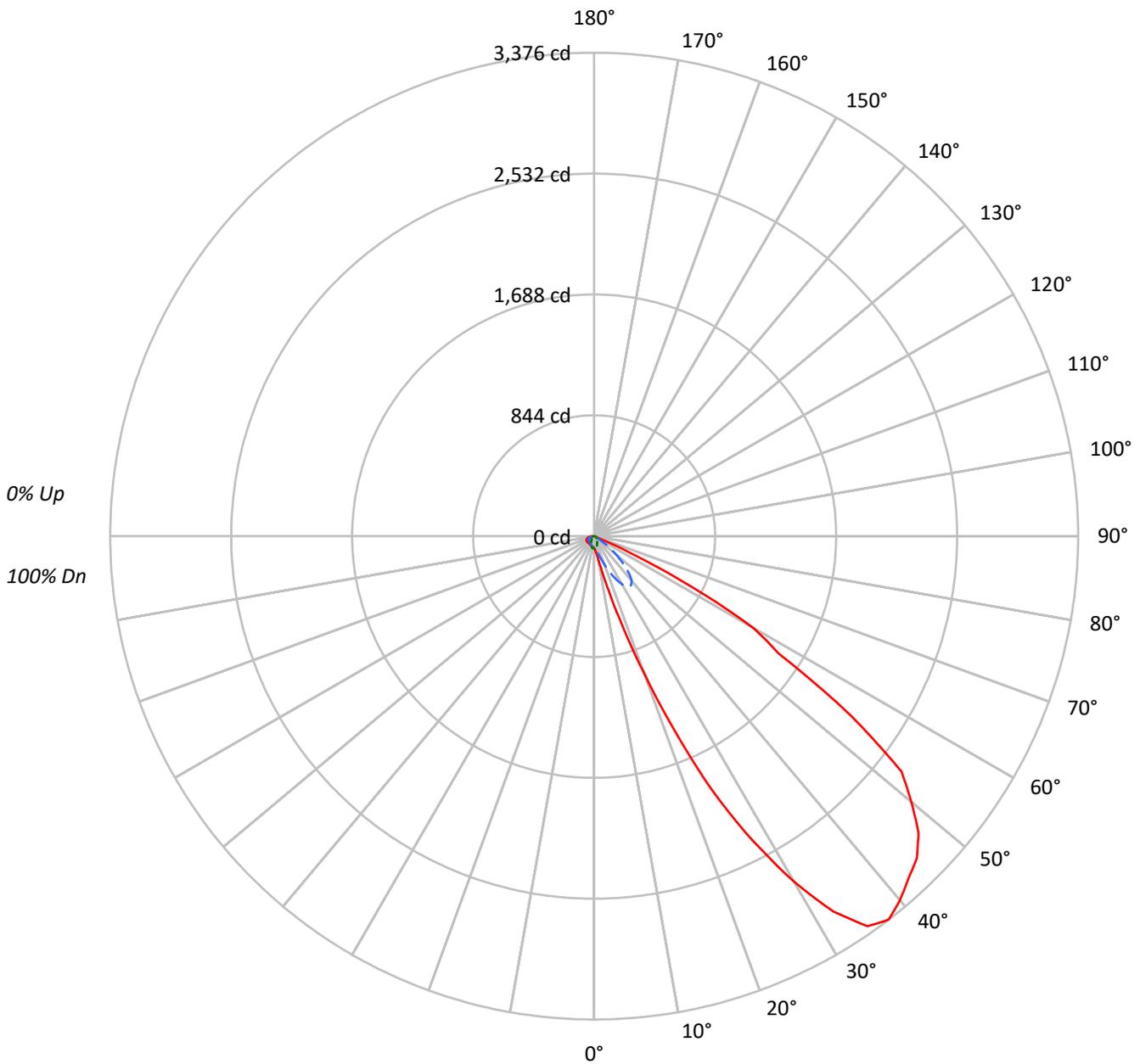
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1508.0 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
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 (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: P1320292
CATALOG NUMBER: LDSQA3D17R459840DE010 3LSQCA45R 1MB

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° ····· 90°-270°



TEST NUMBER: P1320292

CATALOG NUMBER: LDSQA3D17R459840DE010 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 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 99 | 107 | 104 | 100 | 97 | 99 | 97 | 94 | 96 | 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 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 63 | 63 | 63 | 61 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 53 | 53 | 53 | 51 |
| 5 | 76 | 63 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 45 | 45 | 45 | 43 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 38 | 38 | 38 | 36 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 33 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 33 | 33 | 33 | 31 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 42 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 28 | 28 | 28 | 26 |
| 9 | 53 | 39 | 31 | 25 | 52 | 39 | 30 | 25 | 38 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 24 | 24 | 24 | 22 |
| 10 | 49 | 36 | 27 | 22 | 48 | 35 | 27 | 22 | 34 | 27 | 21 | 33 | 26 | 21 | 32 | 26 | 21 | 21 | 21 | 21 | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|-------|-------|-------|
| 0° | 15018 | 15018 | 15018 | 15018 | 15018 |
| 5° | 17876 | 16579 | 14868 | 13779 | 13779 |
| 10° | 28540 | 19394 | 13938 | 13081 | 13081 |
| 15° | 71087 | 25996 | 12659 | 12213 | 12659 |
| 20° | 187253 | 38818 | 10960 | 11638 | 12334 |
| 25° | 376006 | 57540 | 9463 | 10889 | 12067 |
| 30° | 554318 | 77060 | 7676 | 10659 | 12389 |
| 35° | 699191 | 90384 | 6560 | 10470 | 12846 |
| 40° | 746000 | 91322 | 5890 | 10926 | 13737 |
| 45° | 775080 | 76185 | 5456 | 11837 | 14881 |
| 50° | 773865 | 53077 | 5332 | 12673 | 16692 |
| 55° | 657722 | 23570 | 5615 | 14202 | 18346 |
| 60° | 442061 | 4719 | 5580 | 15879 | 21046 |
| 65° | 117282 | 2038 | 5583 | 17279 | 23880 |
| 70° | 3122 | 2518 | 5640 | 18833 | 26990 |
| 75° | 2462 | 2462 | 5789 | 19896 | 30676 |
| 80° | 2479 | 3670 | 6149 | 21026 | 34613 |
| 85° | 2371 | 4940 | 9880 | 22132 | 34383 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 795050 cd/sqm



TEST NUMBER: P1320292

CATALOG NUMBER: LDSQA3D17R459840DE010 3LSQCA45R 1MB

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 8.7 | 0.6 |
| 10°-20° | 42.5 | 2.8 |
| 20°-30° | 175.4 | 11.6 |
| 30°-40° | 369.7 | 24.5 |
| 40°-50° | 456.1 | 30.2 |
| 50°-60° | 341.9 | 22.7 |
| 60°-70° | 88.0 | 5.8 |
| 70°-80° | 18.2 | 1.2 |
| 80°-90° | 7.4 | 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° | 226.6 | 15.0 |
| 0°-40° | 596.3 | 39.5 |
| 0°-60° | 1394.4 | 92.5 |
| 0°-90° | 1508.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1508.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0° | 87 | 87 | 87 | 87 | 87 | |
| 5° | 103 | 96 | 86 | 80 | 80 | 12 |
| 15° | 399 | 146 | 71 | 68 | 71 | 146 |
| 25° | 1979 | 303 | 50 | 57 | 64 | 922 |
| 35° | 3326 | 430 | 31 | 50 | 61 | 2027 |
| 45° | 3182 | 313 | 22 | 49 | 61 | 2435 |
| 55° | 2190 | 78 | 19 | 47 | 61 | 1891 |
| 65° | 288 | 5 | 14 | 42 | 59 | 415 |
| 75° | 4 | 4 | 9 | 30 | 46 | 4 |
| 85° | 1 | 2 | 5 | 11 | 17 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1320292

CATALOG NUMBER: LDSQA3D17R459840DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|--------|
| 0° | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 | 87.2 |
| 2.5° | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 92.2 | 91.0 | 89.7 | 87.2 | 84.7 |
| 5° | 103.4 | 102.2 | 102.2 | 102.2 | 100.9 | 99.7 | 99.7 | 95.9 | 91.0 | 86.0 | 82.2 |
| 7.5° | 122.1 | 122.1 | 120.9 | 118.4 | 117.1 | 114.6 | 112.1 | 102.2 | 91.0 | 83.5 | 78.5 |
| 10° | 163.2 | 160.7 | 157.0 | 154.5 | 148.3 | 139.6 | 133.3 | 110.9 | 89.7 | 79.7 | 76.0 |
| 12.5° | 244.2 | 249.2 | 236.7 | 224.3 | 206.8 | 190.6 | 170.7 | 125.8 | 89.7 | 76.0 | 72.3 |
| 15° | 398.7 | 407.4 | 383.8 | 358.9 | 316.5 | 276.6 | 239.2 | 145.8 | 87.2 | 71.0 | 67.3 |
| 17.5° | 651.7 | 662.9 | 623.0 | 564.4 | 498.4 | 418.7 | 350.1 | 173.2 | 84.7 | 66.0 | 63.5 |
| 20° | 1021.7 | 1020.5 | 943.2 | 869.7 | 742.6 | 625.5 | 497.2 | 211.8 | 81.0 | 59.8 | 59.8 |
| 22.5° | 1476.5 | 1481.5 | 1386.8 | 1254.7 | 1074.1 | 885.9 | 681.6 | 256.7 | 76.0 | 54.8 | 56.1 |
| 25° | 1978.7 | 1936.3 | 1824.2 | 1663.4 | 1432.9 | 1172.5 | 903.4 | 302.8 | 71.0 | 49.8 | 52.3 |
| 27.5° | 2397.3 | 2356.2 | 2227.9 | 2037.2 | 1789.3 | 1480.3 | 1128.9 | 348.9 | 64.8 | 44.9 | 48.6 |
| 30° | 2787.4 | 2735.0 | 2580.5 | 2365.0 | 2069.6 | 1735.7 | 1340.7 | 387.5 | 57.3 | 38.6 | 44.9 |
| 32.5° | 3108.8 | 3061.5 | 2885.8 | 2635.3 | 2313.9 | 1955.0 | 1520.1 | 417.4 | 49.8 | 34.9 | 42.4 |
| 35° | 3325.6 | 3277.0 | 3115.1 | 2839.7 | 2489.6 | 2114.5 | 1665.9 | 429.9 | 43.6 | 31.2 | 41.1 |
| 37.5° | 3375.5 | 3349.3 | 3233.4 | 2975.5 | 2610.4 | 2216.7 | 1759.4 | 426.1 | 36.1 | 28.7 | 38.6 |
| 40° | 3318.2 | 3324.4 | 3269.6 | 3055.3 | 2675.2 | 2260.3 | 1798.0 | 406.2 | 29.9 | 26.2 | 37.4 |
| 42.5° | 3244.6 | 3260.8 | 3257.1 | 3087.6 | 2702.6 | 2262.8 | 1781.8 | 366.3 | 23.7 | 23.7 | 36.1 |
| 45° | 3182.3 | 3198.5 | 3221.0 | 3073.9 | 2683.9 | 2230.4 | 1730.7 | 312.8 | 17.4 | 22.4 | 36.1 |
| 47.5° | 3069.0 | 3086.4 | 3118.8 | 2964.3 | 2589.2 | 2146.9 | 1638.5 | 254.2 | 12.5 | 21.2 | 34.9 |
| 50° | 2888.3 | 2897.0 | 2888.3 | 2715.1 | 2407.3 | 2012.3 | 1489.0 | 198.1 | 8.7 | 19.9 | 34.9 |
| 52.5° | 2702.6 | 2685.2 | 2612.9 | 2393.6 | 2118.2 | 1799.3 | 1300.8 | 140.8 | 6.2 | 18.7 | 33.6 |
| 55° | 2190.5 | 2163.1 | 2109.5 | 1974.9 | 1817.9 | 1537.6 | 1051.6 | 78.5 | 6.2 | 18.7 | 32.4 |
| 57.5° | 1526.4 | 1541.3 | 1560.0 | 1532.6 | 1460.3 | 1211.1 | 798.7 | 34.9 | 6.2 | 17.4 | 32.4 |
| 60° | 1283.4 | 1270.9 | 1272.2 | 1254.7 | 1135.1 | 883.4 | 549.5 | 13.7 | 6.2 | 16.2 | 31.2 |
| 62.5° | 766.3 | 775.0 | 791.2 | 795.0 | 676.6 | 493.4 | 287.8 | 6.2 | 6.2 | 15.0 | 29.9 |
| 65° | 287.8 | 301.5 | 264.2 | 229.3 | 181.9 | 133.3 | 67.3 | 5.0 | 7.5 | 13.7 | 27.4 |
| 67.5° | 8.7 | 10.0 | 12.5 | 11.2 | 11.2 | 10.0 | 7.5 | 5.0 | 7.5 | 12.5 | 26.2 |
| 70° | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 5.0 | 5.0 | 5.0 | 6.2 | 11.2 | 23.7 |
| 72.5° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 6.2 | 10.0 | 21.2 |
| 75° | 3.7 | 5.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 6.2 | 8.7 | 17.4 |
| 77.5° | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 5.0 | 7.5 | 15.0 |
| 80° | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 3.7 | 5.0 | 6.2 | 12.5 |
| 82.5° | 2.5 | 2.5 | 2.5 | 1.2 | 2.5 | 2.5 | 2.5 | 2.5 | 5.0 | 5.0 | 10.0 |
| 85° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.5 | 3.7 | 5.0 | 6.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 2.5 | 3.7 | 3.7 | 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: P1320292

CATALOG NUMBER: LDSQA3D17R459840DE010 3LSQCA45R 1MB

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0° | 87.2 | 87.2 | 87.2 |
| 2.5° | 82.2 | 82.2 | 82.2 |
| 5° | 79.7 | 79.7 | 79.7 |
| 7.5° | 77.3 | 77.3 | 77.3 |
| 10° | 74.8 | 74.8 | 74.8 |
| 12.5° | 72.3 | 72.3 | 73.5 |
| 15° | 68.5 | 71.0 | 71.0 |
| 17.5° | 66.0 | 68.5 | 69.8 |
| 20° | 63.5 | 66.0 | 67.3 |
| 22.5° | 59.8 | 63.5 | 66.0 |
| 25° | 57.3 | 62.3 | 63.5 |
| 27.5° | 54.8 | 61.1 | 63.5 |
| 30° | 53.6 | 59.8 | 62.3 |
| 32.5° | 51.1 | 58.6 | 61.1 |
| 35° | 49.8 | 58.6 | 61.1 |
| 37.5° | 49.8 | 57.3 | 61.1 |
| 40° | 48.6 | 57.3 | 61.1 |
| 42.5° | 48.6 | 57.3 | 61.1 |
| 45° | 48.6 | 57.3 | 61.1 |
| 47.5° | 47.3 | 57.3 | 62.3 |
| 50° | 47.3 | 58.6 | 62.3 |
| 52.5° | 47.3 | 58.6 | 62.3 |
| 55° | 47.3 | 58.6 | 61.1 |
| 57.5° | 46.1 | 57.3 | 61.1 |
| 60° | 46.1 | 57.3 | 61.1 |
| 62.5° | 43.6 | 56.1 | 59.8 |
| 65° | 42.4 | 54.8 | 58.6 |
| 67.5° | 39.9 | 53.6 | 56.1 |
| 70° | 37.4 | 49.8 | 53.6 |
| 72.5° | 33.6 | 47.3 | 51.1 |
| 75° | 29.9 | 43.6 | 46.1 |
| 77.5° | 26.2 | 38.6 | 41.1 |
| 80° | 21.2 | 32.4 | 34.9 |
| 82.5° | 16.2 | 24.9 | 26.2 |
| 85° | 11.2 | 16.2 | 17.4 |
| 87.5° | 5.0 | 7.5 | 8.7 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)