

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: P1315208

Luminaire Tested: LDSQA3D02R709735DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315208
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: LDSQA3D02R709735DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

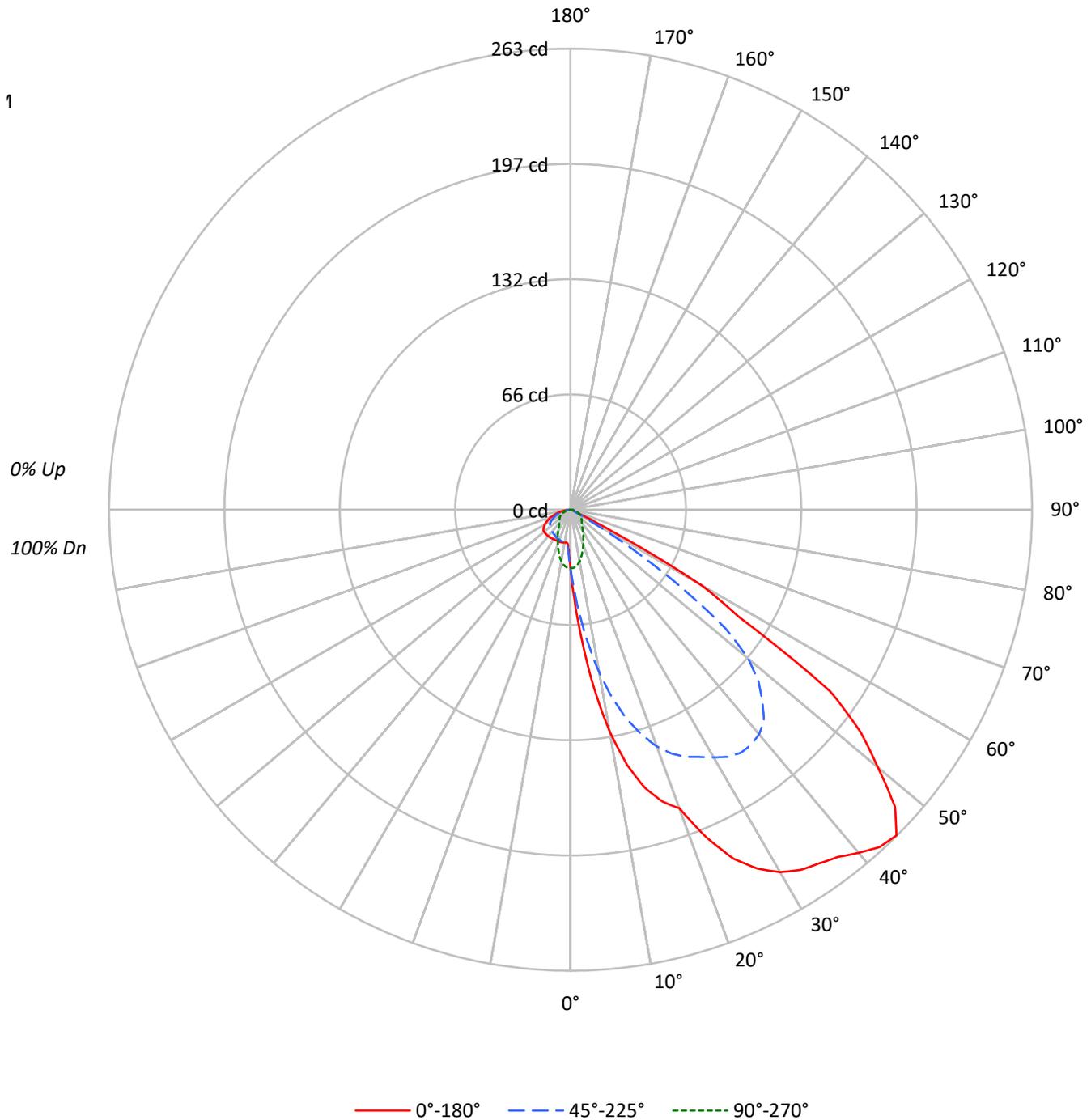
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 227.0 lumens
Efficiency: N/A
Efficacy: 63.1 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): 3.6
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: P1315208
CATALOG NUMBER: LDSQA3D02R709735DE010 3LSQCA45R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1315208

CATALOG NUMBER: LDSQA3D02R709735DE010 3LSQCA45R 1MW

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|-------|-------|------|------|------|
| 0° | 5701 | 5701 | 5701 | 5701 | 5701 |
| 5° | 12966 | 10373 | 5636 | 3561 | 3337 |
| 10° | 22455 | 16474 | 5229 | 3253 | 3323 |
| 15° | 29312 | 22002 | 4564 | 3316 | 3441 |
| 20° | 33210 | 26318 | 3904 | 3354 | 3574 |
| 25° | 41711 | 29530 | 3268 | 3401 | 3668 |
| 30° | 47469 | 32435 | 2784 | 3460 | 3878 |
| 35° | 51804 | 35573 | 2439 | 3532 | 4100 |
| 40° | 57442 | 37568 | 2248 | 3665 | 4429 |
| 45° | 63983 | 37630 | 2216 | 3873 | 4798 |
| 50° | 61276 | 35367 | 2197 | 4073 | 5225 |
| 55° | 54257 | 22910 | 2252 | 4294 | 5645 |
| 60° | 29726 | 4926 | 2273 | 4374 | 5856 |
| 65° | 2119 | 1182 | 2201 | 4320 | 5909 |
| 70° | 1007 | 1158 | 2065 | 4129 | 5690 |
| 75° | 932 | 1198 | 1930 | 3926 | 5257 |
| 80° | 893 | 1091 | 1785 | 3570 | 4959 |
| 85° | 988 | 1383 | 1778 | 3162 | 4545 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 63983 cd/sqm



TEST NUMBER: P1315208

CATALOG NUMBER: LDSQA3D02R709735DE010 3LSQCA45R 1MW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------------|--------------|--------------|
| 0°-10° | 4.3 | 1.9 |
| 10°-20° | 18.4 | 8.1 |
| 20°-30° | 35.4 | 15.6 |
| 30°-40° | 50.1 | 22.0 |
| 40°-50° | 56.6 | 24.9 |
| 50°-60° | 44.8 | 19.8 |
| 60°-70° | 12.1 | 5.3 |
| 70°-80° | 4.0 | 1.8 |
| 80°-90° | 1.2 | 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° | 58.2 | 25.6 |
| 0°-40° | 108.2 | 47.7 |
| 0°-60° | 209.7 | 92.4 |
| 0°-90° | 227.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 227.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 33 | 33 | 33 | 33 | 33 | |
| 5° | 75 | 60 | 33 | 21 | 19 | 9 |
| 15° | 164 | 123 | 26 | 19 | 19 | 46 |
| 25° | 220 | 155 | 17 | 18 | 19 | 101 |
| 35° | 246 | 169 | 12 | 17 | 20 | 155 |
| 45° | 263 | 154 | 9 | 16 | 20 | 197 |
| 55° | 181 | 76 | 8 | 14 | 19 | 147 |
| 65° | 5 | 3 | 5 | 11 | 14 | 19 |
| 75° | 1 | 2 | 3 | 6 | 8 | 1 |
| 85° | 0 | 1 | 1 | 2 | 2 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P1315208

CATALOG NUMBER: LDSQA3D02R709735DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|--------|
| 0° | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 | 33.1 |
| 2.5° | 51.4 | 51.4 | 51.2 | 50.3 | 49.8 | 48.7 | 47.8 | 45.3 | 39.2 | 33.3 | 28.5 |
| 5° | 75.0 | 76.1 | 74.5 | 74.3 | 72.9 | 70.9 | 69.5 | 60.0 | 45.3 | 32.6 | 24.5 |
| 7.5° | 102.8 | 103.3 | 102.8 | 100.6 | 98.5 | 95.1 | 92.0 | 77.0 | 51.4 | 31.5 | 21.5 |
| 10° | 128.4 | 127.7 | 126.4 | 124.8 | 121.8 | 118.2 | 112.8 | 94.2 | 57.3 | 29.9 | 19.7 |
| 12.5° | 149.2 | 149.0 | 147.4 | 145.9 | 142.2 | 137.5 | 132.0 | 109.8 | 62.3 | 27.9 | 18.8 |
| 15° | 164.4 | 164.4 | 162.8 | 161.0 | 157.6 | 153.8 | 147.7 | 123.4 | 66.4 | 25.6 | 17.9 |
| 17.5° | 174.6 | 174.2 | 173.0 | 171.7 | 169.0 | 165.1 | 160.3 | 134.3 | 69.1 | 23.3 | 17.7 |
| 20° | 181.2 | 181.0 | 180.1 | 178.0 | 175.7 | 172.8 | 168.5 | 143.6 | 70.2 | 21.3 | 17.4 |
| 22.5° | 202.2 | 200.4 | 197.0 | 192.7 | 187.3 | 180.3 | 174.4 | 150.6 | 69.8 | 19.0 | 17.0 |
| 25° | 219.5 | 218.8 | 215.2 | 209.9 | 202.7 | 193.6 | 183.9 | 155.4 | 67.5 | 17.2 | 16.5 |
| 27.5° | 230.8 | 229.6 | 226.3 | 220.6 | 212.9 | 204.1 | 195.0 | 159.0 | 64.3 | 15.6 | 15.9 |
| 30° | 238.7 | 238.0 | 234.6 | 228.3 | 220.4 | 210.6 | 201.3 | 163.1 | 60.0 | 14.0 | 15.2 |
| 32.5° | 243.7 | 243.0 | 239.6 | 234.0 | 226.3 | 216.1 | 205.4 | 167.1 | 54.8 | 12.7 | 14.5 |
| 35° | 246.4 | 245.7 | 241.9 | 236.9 | 229.6 | 219.7 | 208.4 | 169.2 | 48.5 | 11.6 | 13.8 |
| 37.5° | 249.8 | 248.4 | 243.2 | 237.1 | 229.9 | 220.6 | 209.3 | 169.0 | 42.1 | 10.6 | 13.4 |
| 40° | 255.5 | 251.8 | 244.4 | 236.2 | 228.7 | 219.5 | 208.6 | 167.1 | 35.1 | 10.0 | 12.9 |
| 42.5° | 260.9 | 255.7 | 244.6 | 234.9 | 226.5 | 217.4 | 206.1 | 163.1 | 27.4 | 9.5 | 12.7 |
| 45° | 262.7 | 255.0 | 241.4 | 231.7 | 223.8 | 214.5 | 202.7 | 154.5 | 18.6 | 9.1 | 12.2 |
| 47.5° | 250.7 | 245.0 | 233.7 | 226.5 | 219.0 | 209.9 | 197.7 | 145.4 | 10.6 | 8.6 | 11.8 |
| 50° | 228.7 | 225.1 | 218.8 | 214.2 | 210.2 | 203.8 | 191.8 | 132.0 | 6.3 | 8.2 | 11.3 |
| 52.5° | 208.4 | 207.2 | 202.7 | 199.1 | 196.8 | 193.9 | 183.0 | 111.4 | 5.2 | 7.9 | 10.9 |
| 55° | 180.7 | 177.1 | 176.0 | 174.6 | 179.4 | 179.1 | 164.4 | 76.3 | 5.0 | 7.5 | 10.4 |
| 57.5° | 113.5 | 115.1 | 120.9 | 131.8 | 144.7 | 152.2 | 151.7 | 40.8 | 4.8 | 7.0 | 9.7 |
| 60° | 86.3 | 86.1 | 87.9 | 92.4 | 101.9 | 112.6 | 122.5 | 14.3 | 4.5 | 6.6 | 9.3 |
| 62.5° | 25.8 | 26.5 | 31.9 | 46.9 | 56.2 | 69.3 | 63.2 | 3.4 | 4.3 | 5.9 | 8.4 |
| 65° | 5.2 | 5.4 | 5.4 | 6.1 | 7.5 | 11.3 | 13.8 | 2.9 | 4.1 | 5.4 | 7.7 |
| 67.5° | 2.3 | 2.3 | 2.3 | 2.5 | 2.5 | 2.9 | 2.5 | 2.7 | 3.6 | 4.8 | 6.8 |
| 70° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.3 | 2.3 | 3.2 | 4.1 | 5.9 |
| 72.5° | 1.6 | 1.6 | 1.6 | 1.8 | 1.8 | 1.8 | 1.8 | 2.0 | 2.7 | 3.4 | 5.0 |
| 75° | 1.4 | 1.4 | 1.4 | 1.4 | 1.6 | 1.6 | 1.6 | 1.8 | 2.3 | 2.9 | 4.1 |
| 77.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.4 | 1.4 | 1.4 | 1.8 | 2.3 | 3.4 |
| 80° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.1 | 1.4 | 1.8 | 2.5 |
| 82.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.9 | 1.1 | 1.4 | 1.8 |
| 85° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 | 0.7 | 0.9 | 1.1 |
| 87.5° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 0.5 | 0.5 | 0.7 |
| 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: P1315208
CATALOG NUMBER: LDSQA3D02R709735DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|------|--------|------|
| 0° | 33.1 | 33.1 | 33.1 |
| 2.5° | 25.1 | 23.8 | 23.1 |
| 5° | 20.6 | 19.5 | 19.3 |
| 7.5° | 19.0 | 18.8 | 18.8 |
| 10° | 18.6 | 18.8 | 19.0 |
| 12.5° | 18.6 | 19.0 | 19.3 |
| 15° | 18.6 | 19.0 | 19.3 |
| 17.5° | 18.6 | 19.0 | 19.3 |
| 20° | 18.3 | 19.0 | 19.5 |
| 22.5° | 18.1 | 19.0 | 19.3 |
| 25° | 17.9 | 19.0 | 19.3 |
| 27.5° | 17.7 | 18.8 | 19.3 |
| 30° | 17.4 | 18.8 | 19.5 |
| 32.5° | 17.0 | 18.8 | 19.5 |
| 35° | 16.8 | 18.8 | 19.5 |
| 37.5° | 16.5 | 18.8 | 19.7 |
| 40° | 16.3 | 18.8 | 19.7 |
| 42.5° | 16.1 | 18.8 | 19.7 |
| 45° | 15.9 | 18.6 | 19.7 |
| 47.5° | 15.4 | 18.6 | 19.7 |
| 50° | 15.2 | 18.3 | 19.5 |
| 52.5° | 14.7 | 18.1 | 19.5 |
| 55° | 14.3 | 17.7 | 18.8 |
| 57.5° | 13.6 | 17.0 | 17.9 |
| 60° | 12.7 | 16.1 | 17.0 |
| 62.5° | 11.6 | 14.9 | 15.6 |
| 65° | 10.6 | 13.6 | 14.5 |
| 67.5° | 9.3 | 12.0 | 12.9 |
| 70° | 8.2 | 10.4 | 11.3 |
| 72.5° | 7.0 | 8.8 | 9.7 |
| 75° | 5.9 | 7.2 | 7.9 |
| 77.5° | 4.5 | 5.9 | 6.3 |
| 80° | 3.6 | 4.5 | 5.0 |
| 82.5° | 2.5 | 3.2 | 3.4 |
| 85° | 1.6 | 2.0 | 2.3 |
| 87.5° | 0.7 | 0.9 | 0.9 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)