

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: P741123

Luminaire Tested: LD4D08D010-EU4DR300210IC9035-4LBCSSQMMS

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P741123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D08D010-EU4DR300210IC9035-4LBCSSQMMS
Description: 4 INCH SQAURE SHALLOW CAST MATTE METALLIC SILVER TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 703.7 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 8.9
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



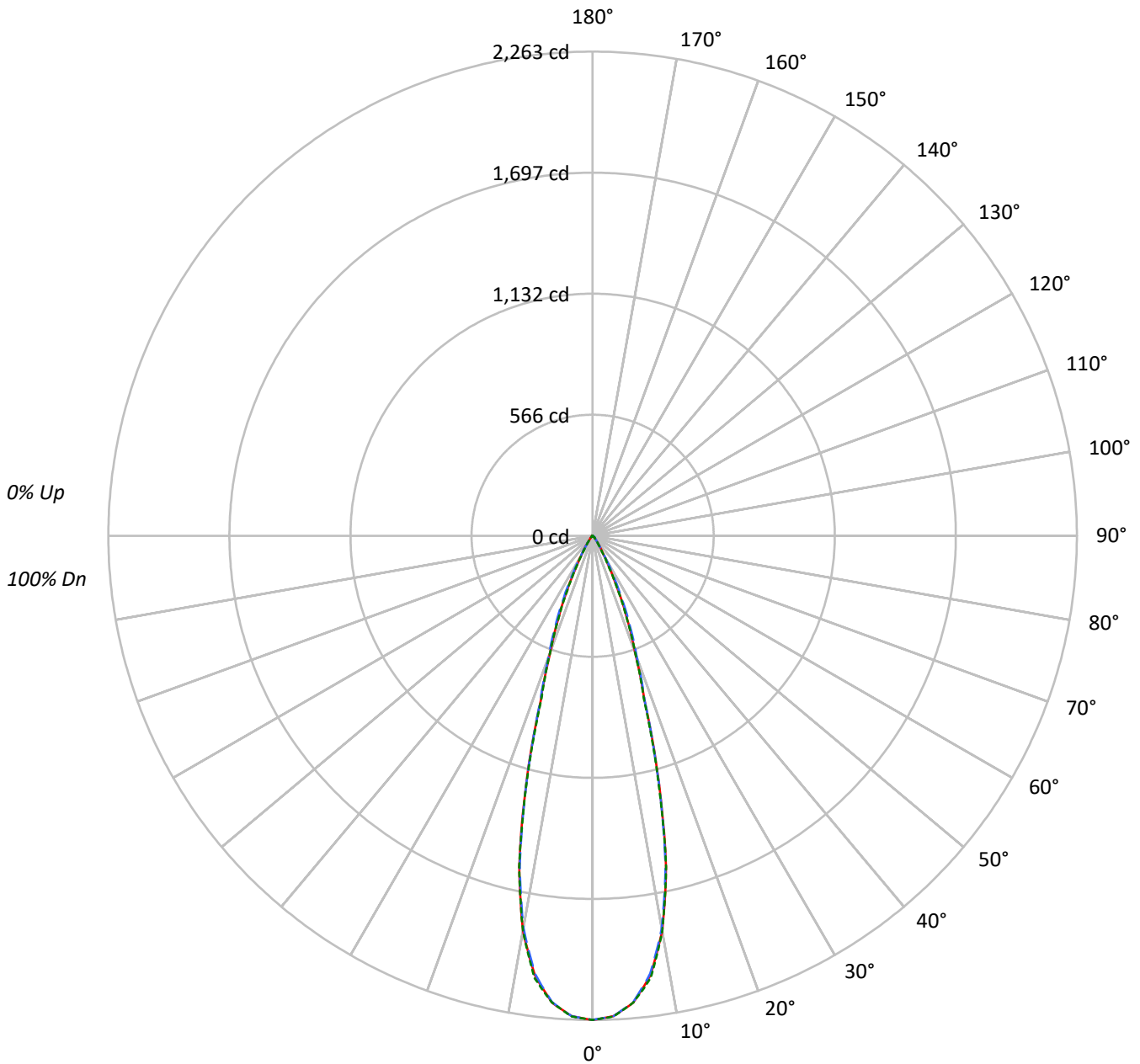
Downlight



TEST NUMBER: P741123

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9035-4LBCSSQMMS

Luminous Intensity Polar Plot





TEST NUMBER: P741123

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | | | | | | | | | | | | | | | | | | | |
| 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 173202 | 173202 | 173202 |
| 5° | 168232 | 168040 | 168240 |
| 10° | 145717 | 144691 | 145686 |
| 15° | 95076 | 94561 | 94086 |
| 20° | 47277 | 49053 | 47212 |
| 25° | 23808 | 26857 | 23327 |
| 30° | 9537 | 10394 | 8308 |
| 35° | 4420 | 4233 | 3551 |
| 40° | 1908 | 2118 | 1799 |
| 45° | 1342 | 1678 | 1353 |
| 50° | 464 | 1215 | 488 |
| 55° | 267 | 507 | 280 |
| 60° | 184 | 214 | 184 |
| 65° | 127 | 127 | 127 |
| 70° | 67 | 45 | 67 |
| 75° | 0 | 30 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1678 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 199.0 | 28.3 |
| 10°-20° | 320.5 | 45.5 |
| 20°-30° | 138.5 | 19.7 |
| 30°-40° | 31.6 | 4.5 |
| 40°-50° | 10.8 | 1.5 |
| 50°-60° | 2.6 | 0.4 |
| 60°-70° | 0.7 | 0.1 |
| 70°-80° | 0.1 | 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° | 657.9 | 93.5 |
| 0°-40° | 689.5 | 98.0 |
| 0°-60° | 703.0 | 99.9 |
| 0°-90° | 703.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 703.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2263 | 2263 | 2263 | 2263 | 2263 | |
| 5° | 2190 | 2187 | 2187 | 2192 | 2190 | 199 |
| 15° | 1200 | 1185 | 1193 | 1189 | 1187 | 321 |
| 25° | 282 | 293 | 318 | 285 | 276 | 135 |
| 35° | 47 | 48 | 45 | 45 | 38 | 32 |
| 45° | 12 | 16 | 16 | 16 | 12 | 9 |
| 55° | 2 | 2 | 4 | 2 | 2 | 2 |
| 65° | 1 | 1 | 1 | 1 | 1 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2262.8 | 2262.8 | 2262.8 | 2262.8 | 2262.8 |
| 2.5° | 2247.9 | 2246.3 | 2247.2 | 2248.3 | 2248.7 |
| 5° | 2189.5 | 2187.4 | 2187.0 | 2191.5 | 2189.6 |
| 7.5° | 2071.8 | 2068.9 | 2064.3 | 2074.7 | 2084.3 |
| 10° | 1874.8 | 1871.4 | 1861.6 | 1866.4 | 1874.4 |
| 12.5° | 1583.8 | 1573.0 | 1572.8 | 1588.3 | 1586.3 |
| 15° | 1199.8 | 1185.3 | 1193.3 | 1189.4 | 1187.3 |
| 17.5° | 806.8 | 801.2 | 811.9 | 808.7 | 794.8 |
| 20° | 580.4 | 581.8 | 602.2 | 591.9 | 579.6 |
| 22.5° | 423.5 | 428.7 | 452.9 | 426.5 | 416.8 |
| 25° | 281.9 | 292.6 | 318.0 | 285.2 | 276.2 |
| 27.5° | 173.4 | 178.3 | 204.0 | 171.2 | 166.3 |
| 30° | 107.9 | 105.4 | 117.6 | 100.9 | 94.0 |
| 32.5° | 70.8 | 67.7 | 71.6 | 64.2 | 58.7 |
| 35° | 47.3 | 48.3 | 45.3 | 45.0 | 38.0 |
| 37.5° | 29.6 | 34.0 | 30.0 | 32.0 | 24.5 |
| 40° | 19.1 | 24.6 | 21.2 | 23.4 | 18.0 |
| 42.5° | 15.6 | 19.0 | 17.4 | 18.6 | 16.0 |
| 45° | 12.4 | 15.5 | 15.5 | 15.5 | 12.5 |
| 47.5° | 6.9 | 10.3 | 13.2 | 10.5 | 7.3 |
| 50° | 3.9 | 5.2 | 10.2 | 5.4 | 4.1 |
| 52.5° | 2.7 | 3.0 | 7.0 | 3.1 | 2.8 |
| 55° | 2.0 | 2.1 | 3.8 | 2.2 | 2.1 |
| 57.5° | 1.5 | 1.7 | 2.0 | 1.7 | 1.5 |
| 60° | 1.2 | 1.2 | 1.4 | 1.3 | 1.2 |
| 62.5° | 0.9 | 0.9 | 1.0 | 0.9 | 0.9 |
| 65° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 67.5° | 0.3 | 0.5 | 0.5 | 0.5 | 0.5 |
| 70° | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 |
| 72.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 75° | 0.0 | 0.0 | 0.1 | 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 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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