

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: P749292

Luminaire Tested: LD4D50D010-EU4DR4040509035-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR4040509035-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4628.1 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

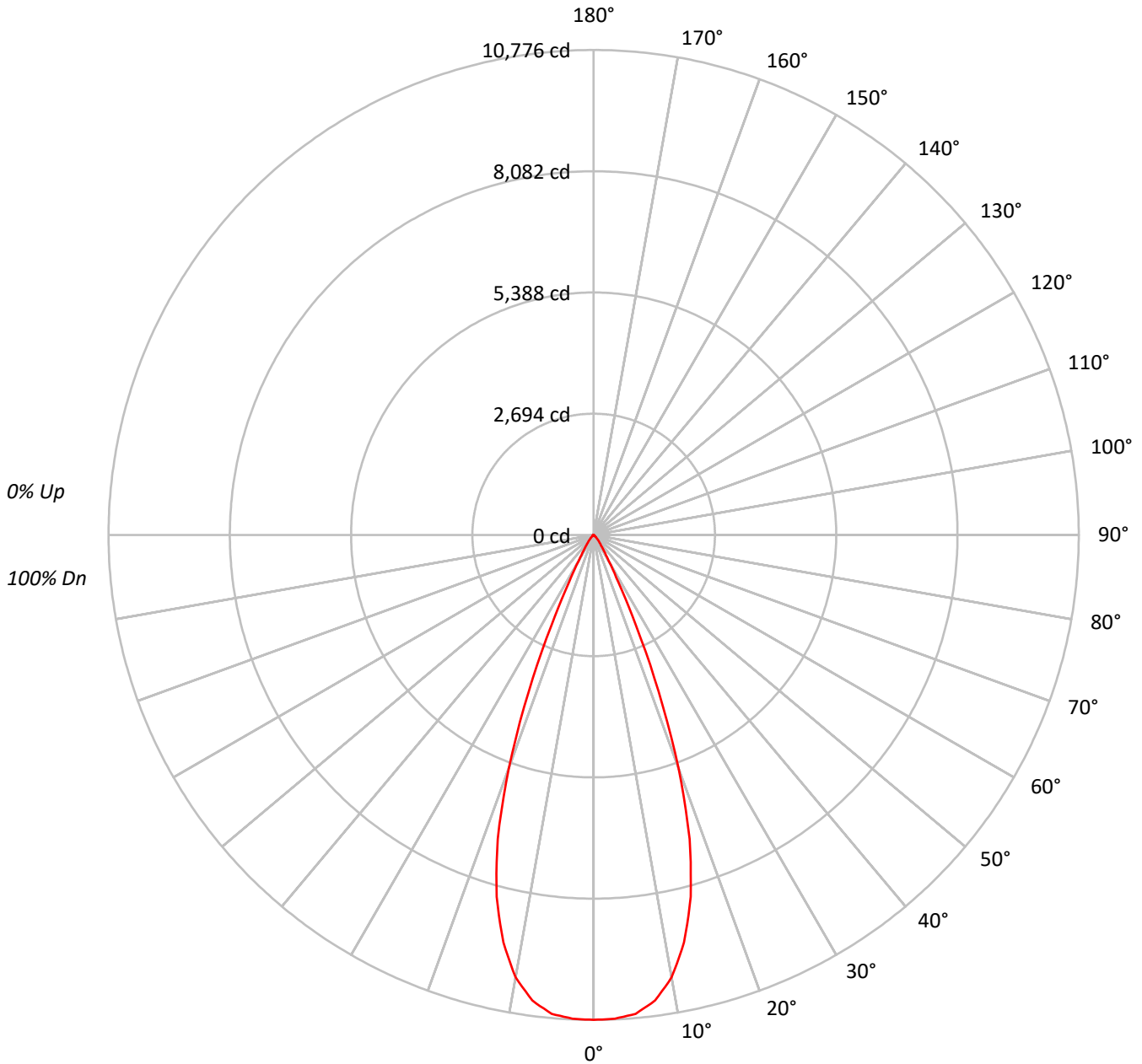
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 100 | | | 100 |
| 1 | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 103 | 101 | 100 | 99 | 98 | 97 | 96 | | | 96 |
| 2 | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 99 | 102 | 99 | 97 | 99 | 97 | 95 | 96 | 95 | 93 | 92 | | | 92 |
| 3 | 106 | 101 | 97 | 94 | 104 | 100 | 96 | 93 | 97 | 94 | 92 | 95 | 93 | 90 | 93 | 91 | 89 | 88 | | | 88 |
| 4 | 102 | 97 | 92 | 89 | 101 | 95 | 91 | 88 | 93 | 90 | 87 | 92 | 89 | 86 | 90 | 87 | 85 | 84 | | | 84 |
| 5 | 99 | 92 | 88 | 84 | 97 | 91 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 81 | | | 81 |
| 6 | 95 | 88 | 84 | 80 | 94 | 88 | 83 | 80 | 86 | 82 | 80 | 85 | 82 | 79 | 84 | 81 | 79 | 77 | | | 77 |
| 7 | 92 | 85 | 80 | 77 | 91 | 84 | 80 | 77 | 83 | 79 | 76 | 82 | 79 | 76 | 81 | 78 | 76 | 74 | | | 74 |
| 8 | 89 | 82 | 77 | 74 | 88 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 76 | 73 | 78 | 75 | 73 | 72 | | | 72 |
| 9 | 86 | 79 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 70 | 76 | 72 | 70 | 69 | | | 69 |
| 10 | 83 | 76 | 71 | 68 | 82 | 75 | 71 | 68 | 75 | 71 | 68 | 74 | 70 | 68 | 73 | 70 | 68 | 67 | | | 67 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1177339 |
| 5° | 1171615 |
| 10° | 1107432 |
| 15° | 941457 |
| 20° | 641675 |
| 25° | 267731 |
| 30° | 84189 |
| 35° | 39121 |
| 40° | 21637 |
| 45° | 9920 |
| 50° | 4810 |
| 55° | 2629 |
| 60° | 1377 |
| 65° | 491 |
| 70° | 192 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9920 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 997.5 | 21.6 |
| 10°-20° | 2234.6 | 48.3 |
| 20°-30° | 1118.6 | 24.2 |
| 30°-40° | 205.0 | 4.4 |
| 40°-50° | 56.6 | 1.2 |
| 50°-60° | 13.3 | 0.3 |
| 60°-70° | 2.6 | 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° | 4350.6 | 94.0 |
| 0°-40° | 4555.6 | 98.4 |
| 0°-60° | 4625.5 | 99.9 |
| 0°-90° | 4628.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4628.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 10776 | |
| 5° | 10682 | 997 |
| 15° | 8323 | 2235 |
| 25° | 2221 | 1119 |
| 35° | 293 | 205 |
| 45° | 64 | 57 |
| 55° | 14 | 13 |
| 65° | 2 | 3 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 10775.5 |
| 2.5° | 10759.8 |
| 5° | 10682.3 |
| 7.5° | 10435.6 |
| 10° | 9981.7 |
| 12.5° | 9274.2 |
| 15° | 8323.0 |
| 17.5° | 7086.1 |
| 20° | 5518.7 |
| 22.5° | 3762.4 |
| 25° | 2220.8 |
| 27.5° | 1174.0 |
| 30° | 667.3 |
| 32.5° | 431.2 |
| 35° | 293.3 |
| 37.5° | 209.6 |
| 40° | 151.7 |
| 42.5° | 103.9 |
| 45° | 64.2 |
| 47.5° | 40.9 |
| 50° | 28.3 |
| 52.5° | 20.1 |
| 55° | 13.8 |
| 57.5° | 8.8 |
| 60° | 6.3 |
| 62.5° | 3.8 |
| 65° | 1.9 |
| 67.5° | 1.3 |
| 70° | 0.6 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 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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— 0°-180°

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