

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: P756118

Luminaire Tested: LD4D95BD010-EU4DR3070959027-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756118
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: LD4D95BD010-EU4DR3070959027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7620.3 lumens
Efficiency: N/A
Efficacy: 76.8 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

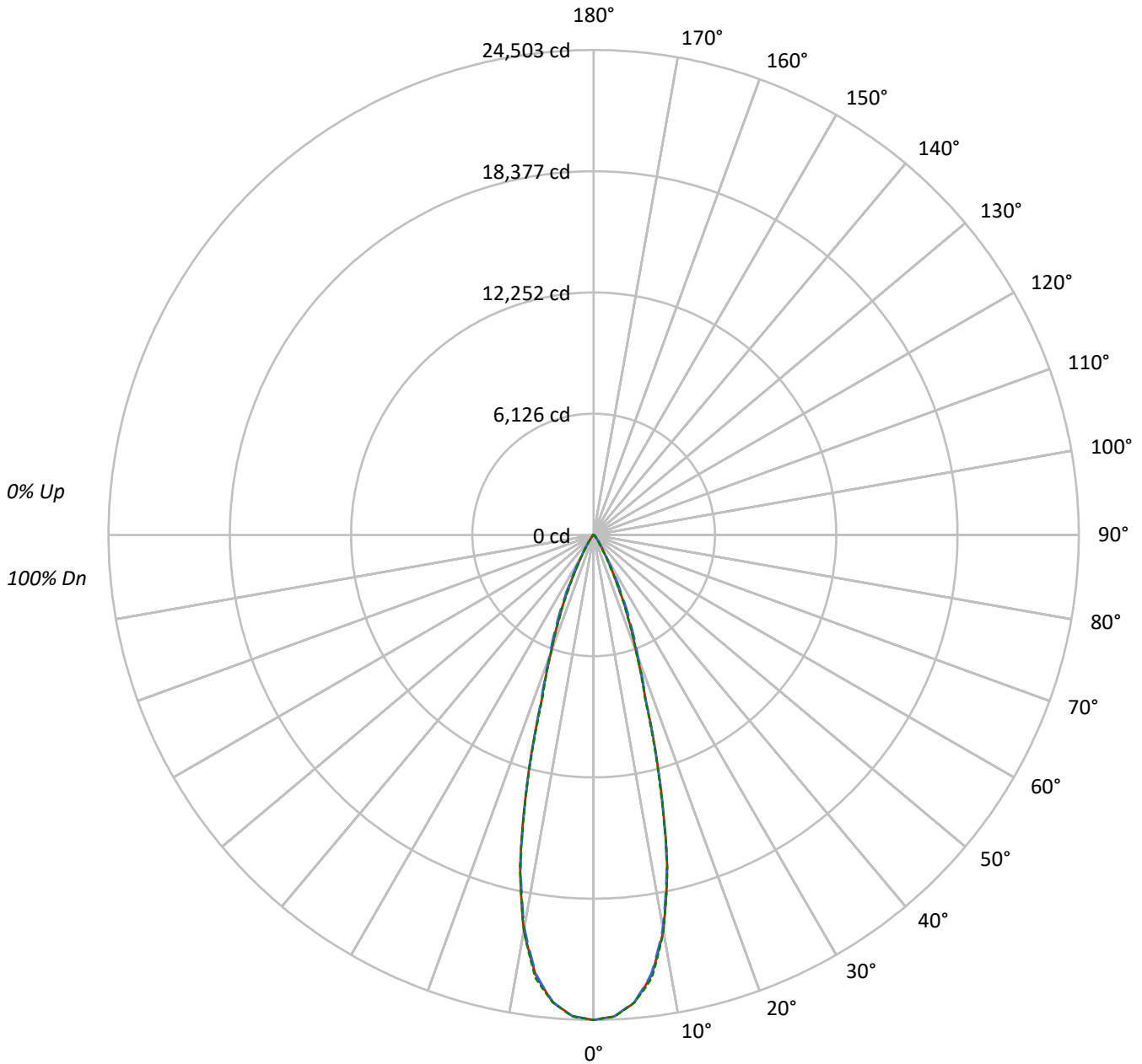
Input Watts (W): 99.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 1875543 | 1875543 | 1875543 |
| 5° | 1821699 | 1819571 | 1821792 |
| 10° | 1577871 | 1566741 | 1577490 |
| 15° | 1029477 | 1023954 | 1018803 |
| 20° | 511909 | 531116 | 511225 |
| 25° | 257862 | 290783 | 252583 |
| 30° | 103242 | 112496 | 89949 |
| 35° | 47889 | 45861 | 38442 |
| 40° | 20674 | 22962 | 19474 |
| 45° | 14581 | 18099 | 14711 |
| 50° | 5013 | 13182 | 5299 |
| 55° | 2896 | 5458 | 3056 |
| 60° | 2021 | 2388 | 2021 |
| 65° | 1304 | 1304 | 1304 |
| 70° | 806 | 537 | 806 |
| 75° | 0 | 355 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18099 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2154.7 | 28.3 |
| 10°-20° | 3470.1 | 45.5 |
| 20°-30° | 1499.5 | 19.7 |
| 30°-40° | 341.8 | 4.5 |
| 40°-50° | 117.3 | 1.5 |
| 50°-60° | 28.7 | 0.4 |
| 60°-70° | 7.4 | 0.1 |
| 70°-80° | 0.8 | 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° | 7124.3 | 93.5 |
| 0°-40° | 7466.1 | 98.0 |
| 0°-60° | 7612.1 | 99.9 |
| 0°-90° | 7620.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7620.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 24503 | 24503 | 24503 | 24503 | 24503 | |
| 5° | 23709 | 23686 | 23681 | 23731 | 23710 | 2156 |
| 15° | 12991 | 12835 | 12922 | 12880 | 12857 | 3479 |
| 25° | 3053 | 3169 | 3443 | 3088 | 2991 | 1461 |
| 35° | 512 | 523 | 491 | 487 | 411 | 348 |
| 45° | 135 | 167 | 167 | 167 | 136 | 96 |
| 55° | 22 | 23 | 41 | 24 | 23 | 21 |
| 65° | 7 | 7 | 7 | 7 | 7 | 7 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 24503.0 | 24503.0 | 24503.0 | 24503.0 | 24503.0 |
| 2.5° | 24340.6 | 24323.7 | 24333.4 | 24345.4 | 24350.2 |
| 5° | 23709.0 | 23686.1 | 23681.3 | 23730.7 | 23710.2 |
| 7.5° | 22435.0 | 22402.5 | 22353.2 | 22465.1 | 22569.7 |
| 10° | 20300.9 | 20264.8 | 20157.7 | 20210.6 | 20296.0 |
| 12.5° | 17150.2 | 17033.5 | 17031.1 | 17199.5 | 17176.6 |
| 15° | 12991.3 | 12835.0 | 12921.6 | 12879.5 | 12856.6 |
| 17.5° | 8736.3 | 8676.1 | 8791.6 | 8756.7 | 8606.4 |
| 20° | 6284.5 | 6300.2 | 6520.3 | 6409.7 | 6276.1 |
| 22.5° | 4585.9 | 4642.4 | 4903.5 | 4618.4 | 4513.7 |
| 25° | 3053.2 | 3168.7 | 3443.0 | 3088.1 | 2990.7 |
| 27.5° | 1877.9 | 1930.8 | 2208.7 | 1853.8 | 1800.9 |
| 30° | 1168.1 | 1141.7 | 1272.8 | 1092.3 | 1017.7 |
| 32.5° | 766.3 | 732.6 | 774.7 | 695.3 | 635.2 |
| 35° | 512.5 | 523.3 | 490.8 | 487.2 | 411.4 |
| 37.5° | 320.0 | 368.1 | 324.8 | 346.5 | 264.7 |
| 40° | 206.9 | 267.1 | 229.8 | 253.8 | 194.9 |
| 42.5° | 169.6 | 205.7 | 188.9 | 200.9 | 173.2 |
| 45° | 134.7 | 167.2 | 167.2 | 167.2 | 135.9 |
| 47.5° | 74.6 | 111.9 | 143.2 | 114.3 | 79.4 |
| 50° | 42.1 | 56.5 | 110.7 | 58.9 | 44.5 |
| 52.5° | 28.9 | 32.5 | 75.8 | 33.7 | 30.1 |
| 55° | 21.7 | 22.9 | 40.9 | 24.1 | 22.9 |
| 57.5° | 16.8 | 18.0 | 21.7 | 18.0 | 16.8 |
| 60° | 13.2 | 13.2 | 15.6 | 14.4 | 13.2 |
| 62.5° | 9.6 | 9.6 | 10.8 | 9.6 | 9.6 |
| 65° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 67.5° | 3.6 | 4.8 | 4.8 | 4.8 | 4.8 |
| 70° | 3.6 | 2.4 | 2.4 | 2.4 | 3.6 |
| 72.5° | 2.4 | 1.2 | 1.2 | 1.2 | 1.2 |
| 75° | 0.0 | 0.0 | 1.2 | 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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