

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



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: P753807

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753807
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: LD4D80BD010-EU4DR3070959035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6046.4 lumens
Efficiency: N/A
Efficacy: 76.6 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

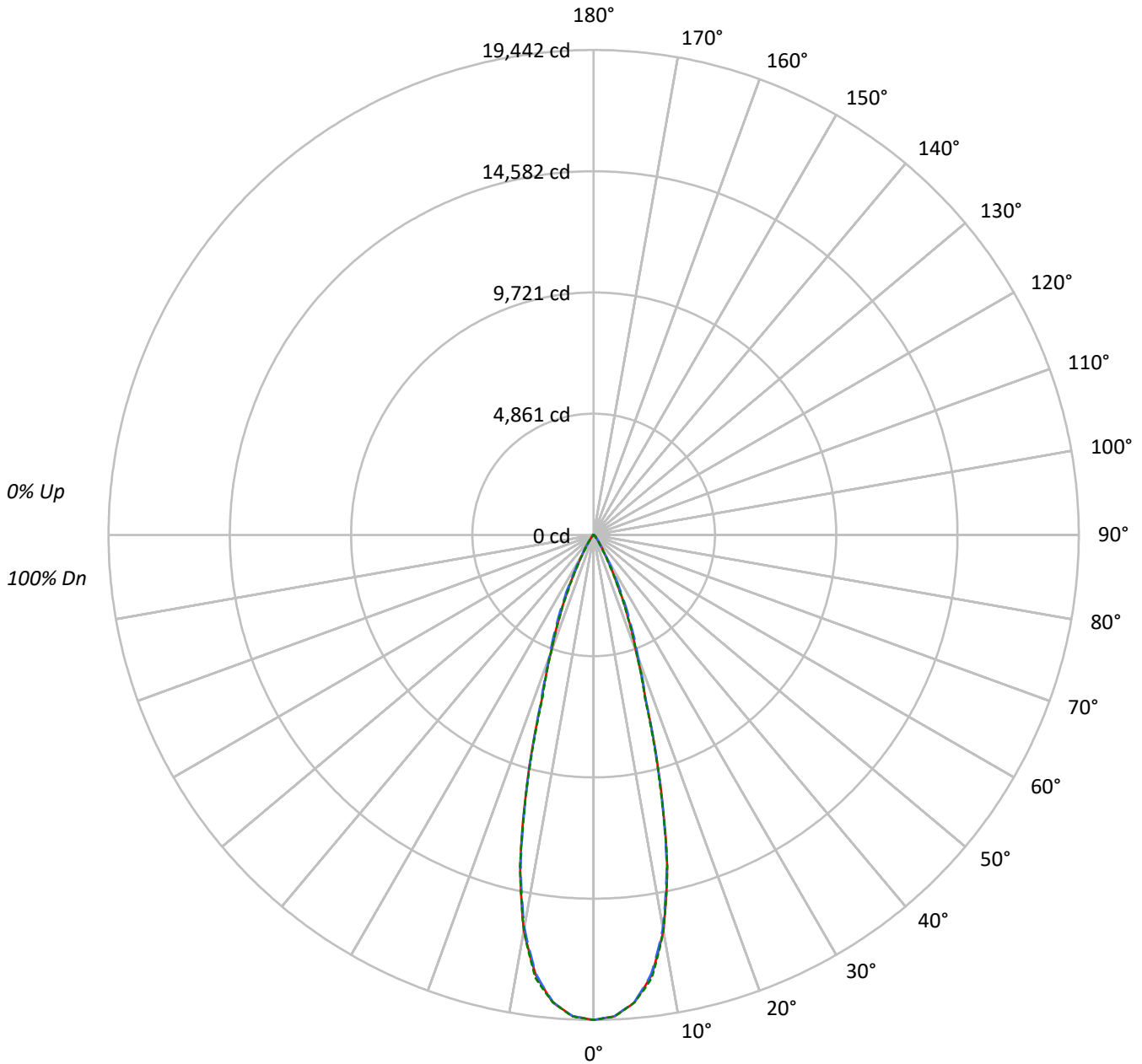
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





TEST NUMBER: P753807

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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° | 1488164 | 1488164 | 1488164 |
| 5° | 1445442 | 1443752 | 1445512 |
| 10° | 1251974 | 1243144 | 1251671 |
| 15° | 816850 | 812460 | 808379 |
| 20° | 406179 | 421420 | 405633 |
| 25° | 204604 | 230726 | 200415 |
| 30° | 81924 | 89260 | 71371 |
| 35° | 37994 | 36396 | 30509 |
| 40° | 16407 | 18215 | 15448 |
| 45° | 11572 | 14365 | 11680 |
| 50° | 3977 | 10455 | 4204 |
| 55° | 2295 | 4337 | 2415 |
| 60° | 1607 | 1898 | 1607 |
| 65° | 1032 | 1032 | 1032 |
| 70° | 649 | 425 | 649 |
| 75° | 0 | 296 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14365 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1709.6 | 28.3 |
| 10°-20° | 2753.4 | 45.5 |
| 20°-30° | 1189.8 | 19.7 |
| 30°-40° | 271.2 | 4.5 |
| 40°-50° | 93.1 | 1.5 |
| 50°-60° | 22.7 | 0.4 |
| 60°-70° | 5.9 | 0.1 |
| 70°-80° | 0.6 | 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° | 5652.8 | 93.5 |
| 0°-40° | 5924.0 | 98.0 |
| 0°-60° | 6039.9 | 99.9 |
| 0°-90° | 6046.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6046.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 19442 | 19442 | 19442 | 19442 | 19442 | |
| 5° | 18812 | 18794 | 18790 | 18829 | 18813 | 1711 |
| 15° | 10308 | 10184 | 10253 | 10219 | 10201 | 2760 |
| 25° | 2423 | 2514 | 2732 | 2450 | 2373 | 1160 |
| 35° | 407 | 415 | 390 | 387 | 326 | 276 |
| 45° | 107 | 133 | 133 | 133 | 108 | 76 |
| 55° | 17 | 18 | 32 | 19 | 18 | 17 |
| 65° | 6 | 6 | 6 | 6 | 6 | 6 |
| 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° | 19442.1 | 19442.1 | 19442.1 | 19442.1 | 19442.1 |
| 2.5° | 19313.2 | 19299.8 | 19307.5 | 19317.0 | 19320.8 |
| 5° | 18812.1 | 18793.9 | 18790.1 | 18829.2 | 18813.0 |
| 7.5° | 17801.2 | 17775.4 | 17736.3 | 17825.1 | 17908.1 |
| 10° | 16107.9 | 16079.2 | 15994.3 | 16036.3 | 16104.0 |
| 12.5° | 13607.9 | 13515.3 | 13513.4 | 13647.1 | 13628.9 |
| 15° | 10308.1 | 10184.0 | 10252.7 | 10219.3 | 10201.2 |
| 17.5° | 6931.9 | 6884.1 | 6975.8 | 6948.1 | 6828.8 |
| 20° | 4986.5 | 4998.9 | 5173.6 | 5085.8 | 4979.8 |
| 22.5° | 3638.7 | 3683.6 | 3890.7 | 3664.5 | 3581.4 |
| 25° | 2422.6 | 2514.3 | 2731.9 | 2450.3 | 2373.0 |
| 27.5° | 1490.0 | 1532.0 | 1752.5 | 1470.9 | 1428.9 |
| 30° | 926.9 | 905.9 | 1009.9 | 866.7 | 807.5 |
| 32.5° | 608.0 | 581.3 | 614.7 | 551.7 | 504.0 |
| 35° | 406.6 | 415.2 | 389.5 | 386.6 | 326.5 |
| 37.5° | 253.9 | 292.1 | 257.7 | 274.9 | 210.0 |
| 40° | 164.2 | 211.9 | 182.3 | 201.4 | 154.6 |
| 42.5° | 134.6 | 163.2 | 149.9 | 159.4 | 137.5 |
| 45° | 106.9 | 132.7 | 132.7 | 132.7 | 107.9 |
| 47.5° | 59.2 | 88.8 | 113.6 | 90.7 | 63.0 |
| 50° | 33.4 | 44.9 | 87.8 | 46.8 | 35.3 |
| 52.5° | 22.9 | 25.8 | 60.1 | 26.7 | 23.9 |
| 55° | 17.2 | 18.1 | 32.5 | 19.1 | 18.1 |
| 57.5° | 13.4 | 14.3 | 17.2 | 14.3 | 13.4 |
| 60° | 10.5 | 10.5 | 12.4 | 11.5 | 10.5 |
| 62.5° | 7.6 | 7.6 | 8.6 | 7.6 | 7.6 |
| 65° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 67.5° | 2.9 | 3.8 | 3.8 | 3.8 | 3.8 |
| 70° | 2.9 | 1.9 | 1.9 | 1.9 | 2.9 |
| 72.5° | 1.9 | 1.0 | 1.0 | 1.0 | 1.0 |
| 75° | 0.0 | 0.0 | 1.0 | 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 |

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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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