

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: P749885

Luminaire Tested: LD4D55D010-EU4DR3055659027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749885
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: LD4D55D010-EU4DR3055659027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5118.5 lumens
Efficiency: N/A
Efficacy: 87.9 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

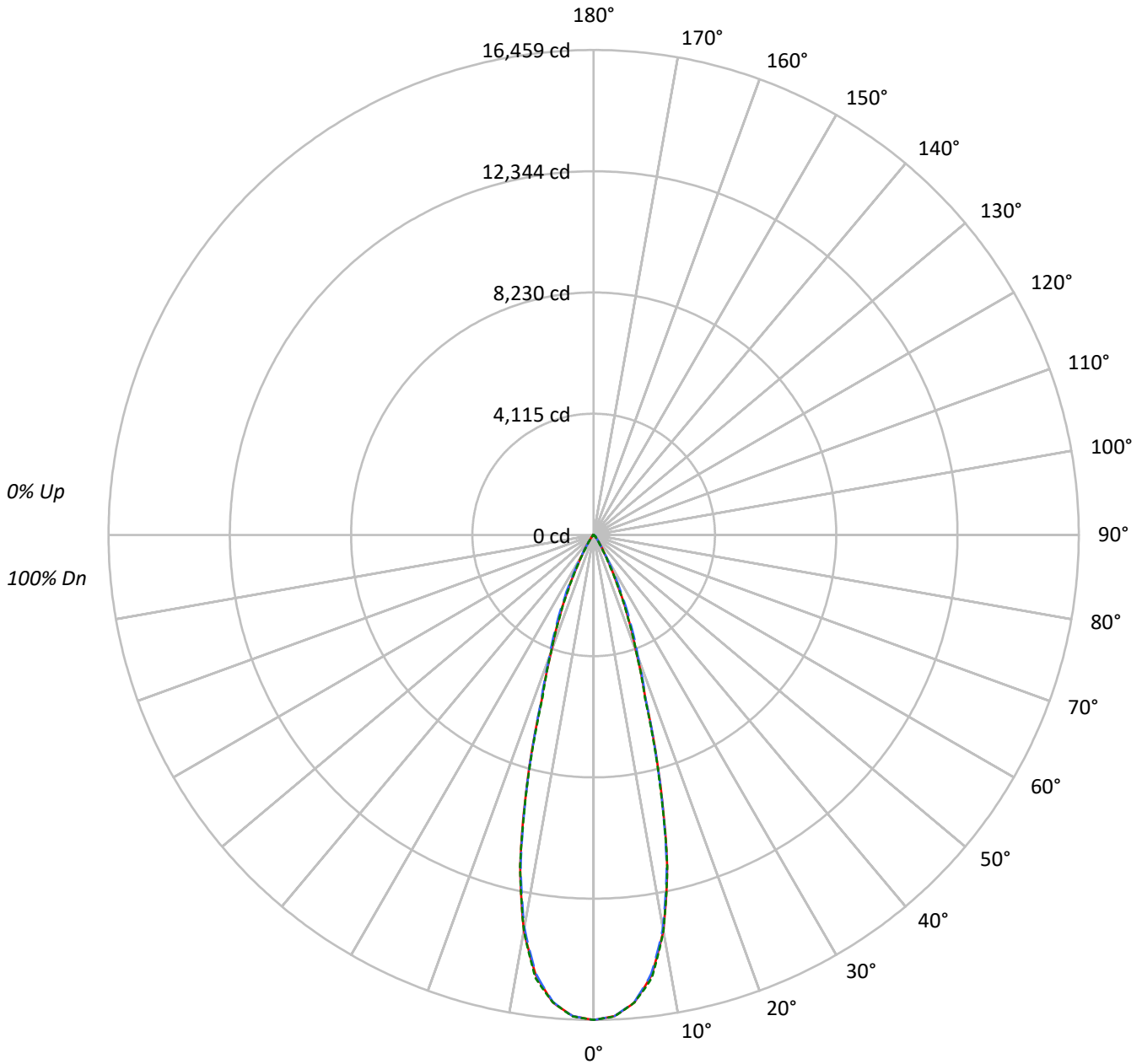
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P749885
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Luminous Intensity Polar Plot





TEST NUMBER: P749885

CATALOG NUMBER: LD4D55D010-EU4DR3055659027-4LBS1B

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° | 1259805 | 1259805 | 1259805 |
| 5° | 1223633 | 1222211 | 1223702 |
| 10° | 1059855 | 1052378 | 1059606 |
| 15° | 691503 | 687787 | 684331 |
| 20° | 343849 | 356752 | 343393 |
| 25° | 173211 | 195322 | 169656 |
| 30° | 69347 | 75560 | 60420 |
| 35° | 32163 | 30808 | 25827 |
| 40° | 13889 | 15418 | 13080 |
| 45° | 9797 | 12156 | 9883 |
| 50° | 3370 | 8848 | 3561 |
| 55° | 1935 | 3670 | 2055 |
| 60° | 1362 | 1607 | 1362 |
| 65° | 869 | 869 | 869 |
| 70° | 537 | 358 | 537 |
| 75° | 0 | 237 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12156 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1447.3 | 28.3 |
| 10°-20° | 2330.9 | 45.5 |
| 20°-30° | 1007.2 | 19.7 |
| 30°-40° | 229.6 | 4.5 |
| 40°-50° | 78.8 | 1.5 |
| 50°-60° | 19.3 | 0.4 |
| 60°-70° | 5.0 | 0.1 |
| 70°-80° | 0.5 | 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° | 4785.4 | 93.5 |
| 0°-40° | 5015.0 | 98.0 |
| 0°-60° | 5113.0 | 99.9 |
| 0°-90° | 5118.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5118.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 16459 | 16459 | 16459 | 16459 | 16459 | |
| 5° | 15925 | 15910 | 15907 | 15940 | 15926 | 1448 |
| 15° | 8726 | 8621 | 8679 | 8651 | 8636 | 2337 |
| 25° | 2051 | 2128 | 2313 | 2074 | 2009 | 982 |
| 35° | 344 | 352 | 330 | 327 | 276 | 233 |
| 45° | 90 | 112 | 112 | 112 | 91 | 64 |
| 55° | 14 | 15 | 28 | 16 | 15 | 14 |
| 65° | 5 | 5 | 5 | 5 | 5 | 5 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P749885

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 16458.7 | 16458.7 | 16458.7 | 16458.7 | 16458.7 |
| 2.5° | 16349.6 | 16338.3 | 16344.7 | 16352.8 | 16356.0 |
| 5° | 15925.3 | 15910.0 | 15906.8 | 15939.9 | 15926.2 |
| 7.5° | 15069.6 | 15047.8 | 15014.7 | 15089.8 | 15160.1 |
| 10° | 13636.1 | 13611.9 | 13539.9 | 13575.5 | 13632.9 |
| 12.5° | 11519.8 | 11441.4 | 11439.8 | 11552.9 | 11537.6 |
| 15° | 8726.3 | 8621.2 | 8679.4 | 8651.1 | 8635.8 |
| 17.5° | 5868.2 | 5827.8 | 5905.3 | 5881.9 | 5780.9 |
| 20° | 4221.3 | 4231.8 | 4379.7 | 4305.4 | 4215.7 |
| 22.5° | 3080.3 | 3118.3 | 3293.7 | 3102.2 | 3031.9 |
| 25° | 2050.9 | 2128.4 | 2312.7 | 2074.3 | 2008.8 |
| 27.5° | 1261.4 | 1296.9 | 1483.6 | 1245.2 | 1209.7 |
| 30° | 784.6 | 766.9 | 854.9 | 733.7 | 683.6 |
| 32.5° | 514.7 | 492.1 | 520.4 | 467.1 | 426.7 |
| 35° | 344.2 | 351.5 | 329.7 | 327.3 | 276.4 |
| 37.5° | 214.9 | 247.3 | 218.2 | 232.7 | 177.8 |
| 40° | 139.0 | 179.4 | 154.3 | 170.5 | 130.9 |
| 42.5° | 113.9 | 138.2 | 126.9 | 134.9 | 116.4 |
| 45° | 90.5 | 112.3 | 112.3 | 112.3 | 91.3 |
| 47.5° | 50.1 | 75.2 | 96.2 | 76.8 | 53.3 |
| 50° | 28.3 | 38.0 | 74.3 | 39.6 | 29.9 |
| 52.5° | 19.4 | 21.8 | 50.9 | 22.6 | 20.2 |
| 55° | 14.5 | 15.4 | 27.5 | 16.2 | 15.4 |
| 57.5° | 11.3 | 12.1 | 14.5 | 12.1 | 11.3 |
| 60° | 8.9 | 8.9 | 10.5 | 9.7 | 8.9 |
| 62.5° | 6.5 | 6.5 | 7.3 | 6.5 | 6.5 |
| 65° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| 67.5° | 2.4 | 3.2 | 3.2 | 3.2 | 3.2 |
| 70° | 2.4 | 1.6 | 1.6 | 1.6 | 2.4 |
| 72.5° | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 75° | 0.0 | 0.0 | 0.8 | 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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