

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: P748171

Luminaire Tested: LD4D40BD010-EU4DR7040509027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR7040509027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4074.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

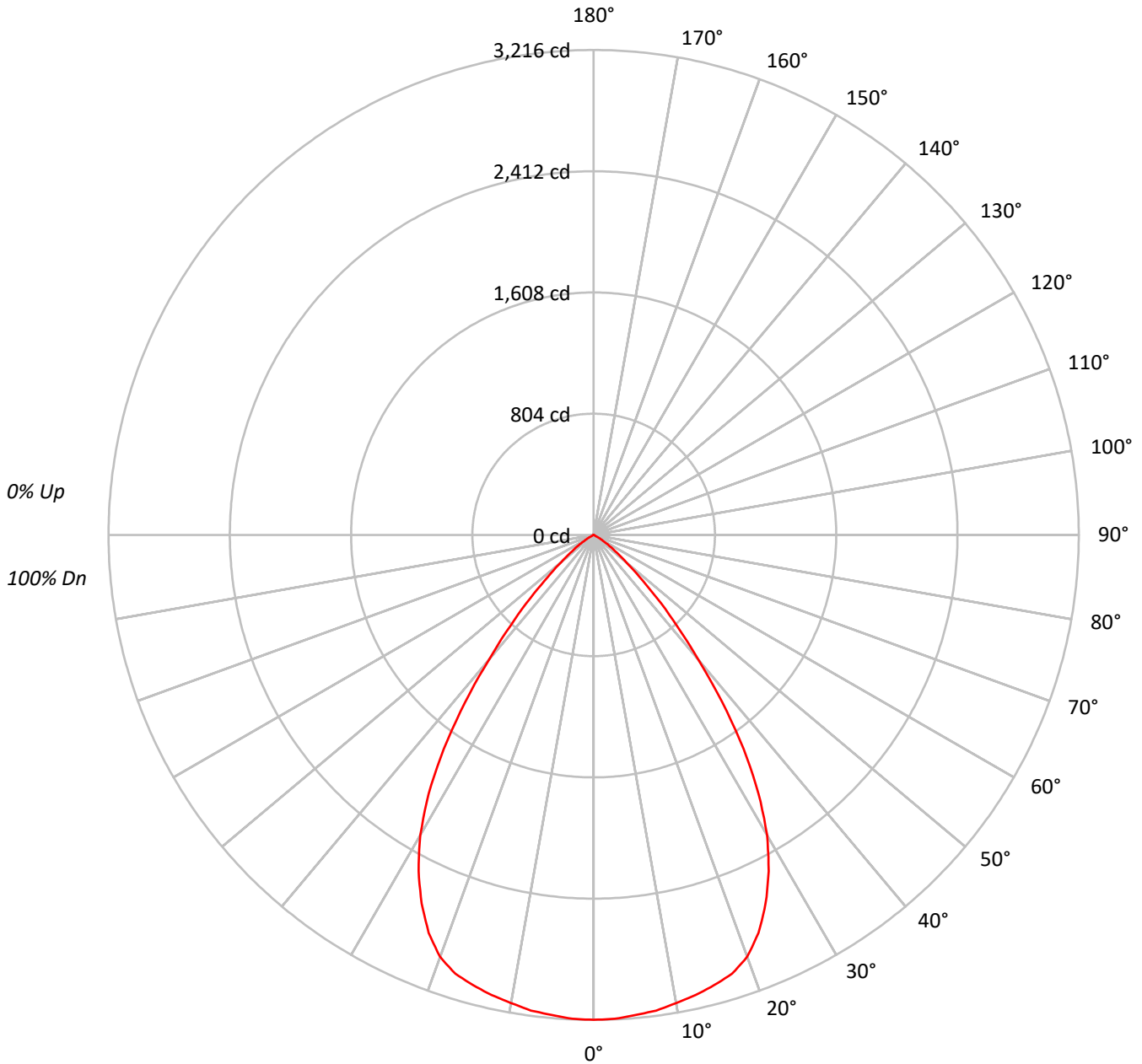
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | |
| 1 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 95 | 94 | 93 | | |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 92 | 97 | 93 | 90 | 94 | 91 | 88 | 91 | 89 | 87 | 85 | | |
| 3 | 101 | 94 | 88 | 84 | 99 | 92 | 87 | 83 | 90 | 85 | 82 | 87 | 84 | 81 | 85 | 82 | 79 | 78 | | |
| 4 | 95 | 87 | 81 | 76 | 93 | 86 | 80 | 76 | 83 | 78 | 75 | 81 | 77 | 74 | 79 | 76 | 73 | 71 | | |
| 5 | 89 | 80 | 74 | 69 | 88 | 79 | 73 | 69 | 78 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 | | |
| 6 | 84 | 75 | 68 | 63 | 83 | 74 | 68 | 63 | 72 | 67 | 63 | 71 | 66 | 62 | 69 | 65 | 62 | 60 | | |
| 7 | 80 | 69 | 63 | 58 | 78 | 69 | 62 | 58 | 67 | 62 | 58 | 66 | 61 | 57 | 65 | 61 | 57 | 56 | | |
| 8 | 75 | 65 | 58 | 54 | 74 | 64 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 51 | | |
| 9 | 71 | 61 | 54 | 50 | 70 | 60 | 54 | 50 | 59 | 53 | 50 | 58 | 53 | 49 | 57 | 53 | 49 | 48 | | |
| 10 | 67 | 57 | 50 | 46 | 66 | 56 | 50 | 46 | 55 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 46 | 44 | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 351328 |
| 5° | 350454 |
| 10° | 349692 |
| 15° | 349593 |
| 20° | 346179 |
| 25° | 325187 |
| 30° | 289911 |
| 35° | 231139 |
| 40° | 153484 |
| 45° | 91753 |
| 50° | 47577 |
| 55° | 25011 |
| 60° | 8850 |
| 65° | 155 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 91753 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 303.9 | 7.5 |
| 10°-20° | 871.5 | 21.4 |
| 20°-30° | 1229.4 | 30.2 |
| 30°-40° | 1061.3 | 26.1 |
| 40°-50° | 475.3 | 11.7 |
| 50°-60° | 124.4 | 3.1 |
| 60°-70° | 8.1 | 0.2 |
| 70°-80° | 0.0 | 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° | 2404.8 | 59.0 |
| 0°-40° | 3466.1 | 85.1 |
| 0°-60° | 4065.9 | 99.8 |
| 0°-90° | 4074.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4074.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3216 | |
| 5° | 3195 | 304 |
| 15° | 3091 | 871 |
| 25° | 2697 | 1229 |
| 35° | 1733 | 1061 |
| 45° | 594 | 475 |
| 55° | 131 | 124 |
| 65° | 1 | 8 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3215.5 |
| 2.5° | 3212.0 |
| 5° | 3195.3 |
| 7.5° | 3181.4 |
| 10° | 3151.9 |
| 12.5° | 3125.3 |
| 15° | 3090.6 |
| 17.5° | 3050.7 |
| 20° | 2977.3 |
| 22.5° | 2856.4 |
| 25° | 2697.4 |
| 27.5° | 2513.0 |
| 30° | 2297.9 |
| 32.5° | 2034.8 |
| 35° | 1732.9 |
| 37.5° | 1399.9 |
| 40° | 1076.1 |
| 42.5° | 817.6 |
| 45° | 593.8 |
| 47.5° | 409.4 |
| 50° | 279.9 |
| 52.5° | 193.1 |
| 55° | 131.3 |
| 57.5° | 79.2 |
| 60° | 40.5 |
| 62.5° | 12.7 |
| 65° | 0.6 |
| 67.5° | 0.0 |
| 70° | 0.0 |
| 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 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)