

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: P740751

Luminaire Tested: LD4D05D010-EU4DR700210IC9040-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P740751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D05D010-EU4DR700210IC9040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 543.5 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 7.5
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



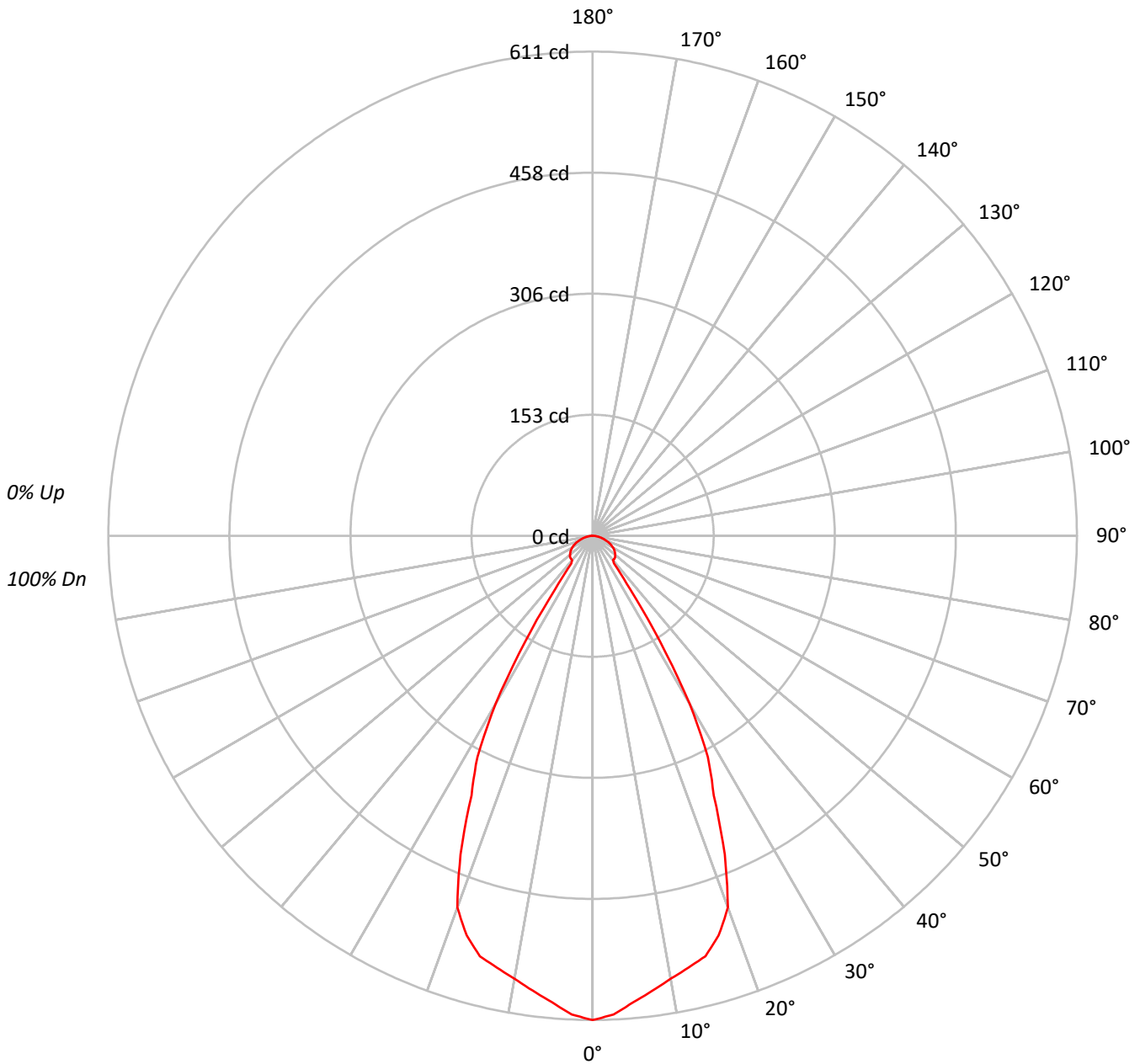
Downlight



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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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 95 | 94 | 93 | 91 | | |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 78 | 76 | | |
| 4 | 94 | 86 | 80 | 75 | 92 | 85 | 79 | 74 | 82 | 77 | 73 | 80 | 76 | 73 | 78 | 75 | 72 | 70 | | |
| 5 | 89 | 80 | 74 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 65 | | |
| 6 | 85 | 75 | 68 | 64 | 83 | 74 | 68 | 64 | 73 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 62 | 61 | | |
| 7 | 80 | 70 | 64 | 59 | 79 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 58 | 57 | | |
| 8 | 77 | 66 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 53 | | |
| 9 | 73 | 63 | 57 | 52 | 72 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 60 | 55 | 52 | 50 | | |
| 10 | 70 | 59 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 57 | 52 | 49 | 48 | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 66769 |
| 5° | 64787 |
| 10° | 62973 |
| 15° | 62145 |
| 20° | 58032 |
| 25° | 43593 |
| 30° | 30822 |
| 35° | 10924 |
| 40° | 5734 |
| 45° | 6119 |
| 50° | 6323 |
| 55° | 6458 |
| 60° | 6490 |
| 65° | 6360 |
| 70° | 6006 |
| 75° | 5572 |
| 80° | 4908 |
| 85° | 4012 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 60°
 Luminance: 6490 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.7 | 10.2 |
| 10°-20° | 152.8 | 28.1 |
| 20°-30° | 168.3 | 31.0 |
| 30°-40° | 64.3 | 11.8 |
| 40°-50° | 30.3 | 5.6 |
| 50°-60° | 30.2 | 5.6 |
| 60°-70° | 24.2 | 4.5 |
| 70°-80° | 13.9 | 2.6 |
| 80°-90° | 3.8 | 0.7 |
| 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° | 376.8 | 69.3 |
| 0°-40° | 441.1 | 81.2 |
| 0°-60° | 501.6 | 92.3 |
| 0°-90° | 543.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 543.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 611 | |
| 5° | 591 | 56 |
| 15° | 549 | 153 |
| 25° | 362 | 168 |
| 35° | 82 | 64 |
| 45° | 40 | 30 |
| 55° | 34 | 30 |
| 65° | 25 | 24 |
| 75° | 13 | 14 |
| 85° | 3 | 4 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 611.1 |
| 2.5° | 604.6 |
| 5° | 590.7 |
| 7.5° | 578.9 |
| 10° | 567.6 |
| 12.5° | 558.1 |
| 15° | 549.4 |
| 17.5° | 528.6 |
| 20° | 499.1 |
| 22.5° | 435.4 |
| 25° | 361.6 |
| 27.5° | 314.8 |
| 30° | 244.3 |
| 32.5° | 157.8 |
| 35° | 81.9 |
| 37.5° | 44.2 |
| 40° | 40.2 |
| 42.5° | 39.9 |
| 45° | 39.6 |
| 47.5° | 38.7 |
| 50° | 37.2 |
| 52.5° | 35.6 |
| 55° | 33.9 |
| 57.5° | 31.9 |
| 60° | 29.7 |
| 62.5° | 27.2 |
| 65° | 24.6 |
| 67.5° | 21.7 |
| 70° | 18.8 |
| 72.5° | 15.9 |
| 75° | 13.2 |
| 77.5° | 10.4 |
| 80° | 7.8 |
| 82.5° | 5.5 |
| 85° | 3.2 |
| 87.5° | 1.3 |
| 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)