

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: P741844

Luminaire Tested: LD4D10D010-EU4DR100210IC9040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR100210IC9040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 10° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1064.3 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 0.17 / 0.17 / 0.18
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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

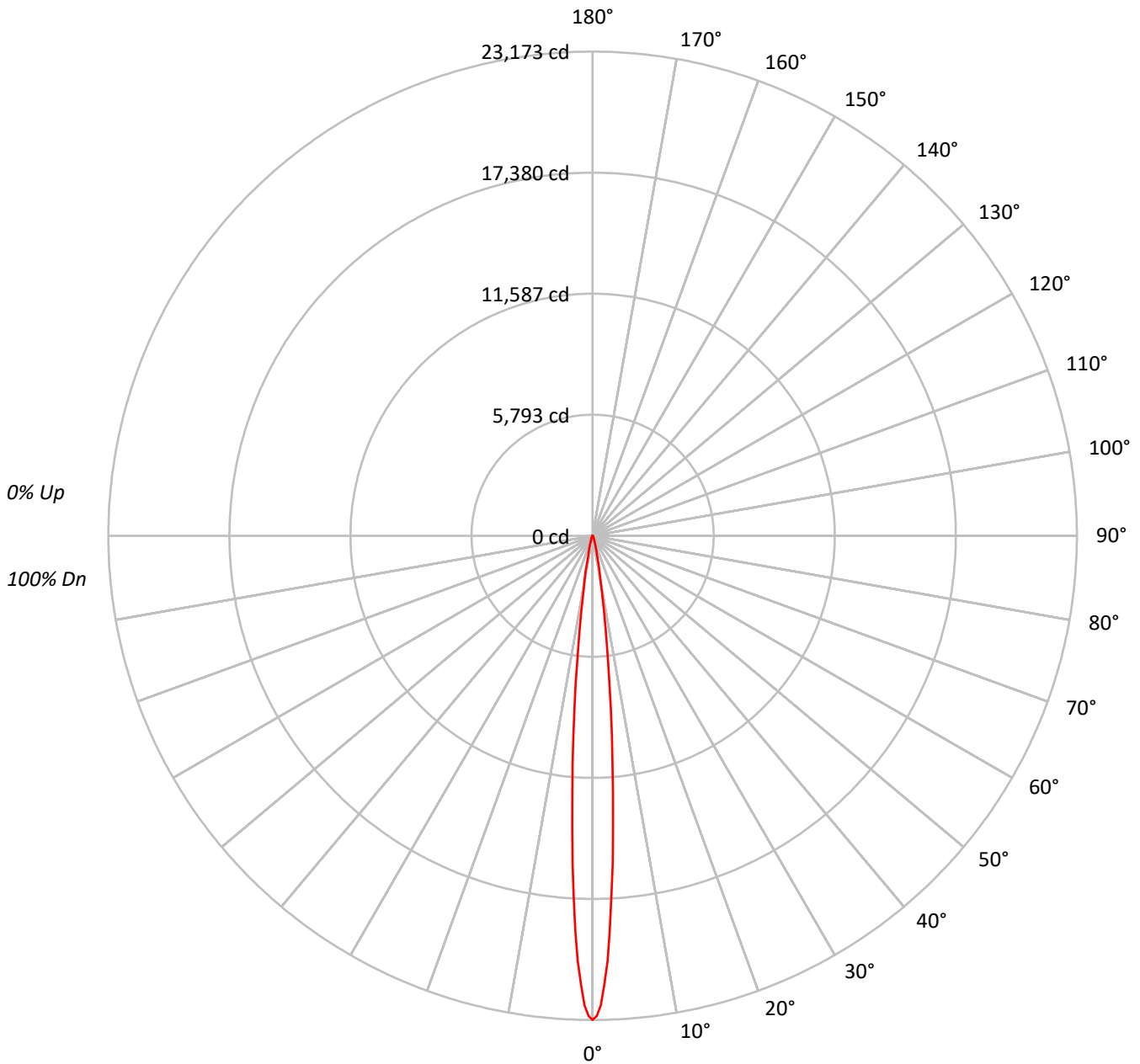


Downlight



TEST NUMBER: P741844
CATALOG NUMBER: LD4D10D010-EU4DR100210IC9040-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P741844

CATALOG NUMBER: LD4D10D010-EU4DR100210IC9040-4LBS1B

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 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | 100 | | | | | | | | | | | | | | | | |
| 1 | 116 | 114 | 113 | 111 | 114 | 112 | 111 | 109 | 108 | 107 | 106 | 104 | 104 | 103 | 101 | 101 | 100 | 98 | | | 98 | | | | | | | | | | | | | | | | |
| 2 | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 105 | 104 | 102 | 103 | 101 | 100 | 100 | 99 | 98 | 97 | | | 97 | | | | | | | | | | | | | | | | |
| 3 | 111 | 107 | 104 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99 | 101 | 99 | 98 | 99 | 98 | 96 | 95 | | | 95 | | | | | | | | | | | | | | | | |
| 4 | 108 | 104 | 101 | 99 | 107 | 103 | 100 | 98 | 101 | 99 | 97 | 99 | 97 | 96 | 98 | 96 | 95 | 94 | | | 94 | | | | | | | | | | | | | | | | |
| 5 | 106 | 102 | 99 | 96 | 105 | 101 | 98 | 96 | 99 | 97 | 95 | 98 | 96 | 94 | 97 | 95 | 94 | 93 | | | 93 | | | | | | | | | | | | | | | | |
| 6 | 104 | 100 | 96 | 94 | 103 | 99 | 96 | 94 | 98 | 95 | 93 | 97 | 94 | 93 | 96 | 94 | 92 | 91 | | | 91 | | | | | | | | | | | | | | | | |
| 7 | 103 | 98 | 95 | 93 | 102 | 97 | 94 | 92 | 96 | 94 | 92 | 95 | 93 | 92 | 95 | 93 | 91 | 90 | | | 90 | | | | | | | | | | | | | | | | |
| 8 | 101 | 96 | 93 | 91 | 100 | 96 | 93 | 91 | 95 | 92 | 91 | 94 | 92 | 90 | 93 | 92 | 90 | 89 | | | 89 | | | | | | | | | | | | | | | | |
| 9 | 100 | 95 | 92 | 90 | 99 | 94 | 92 | 90 | 94 | 91 | 90 | 93 | 91 | 89 | 93 | 91 | 89 | 88 | | | 88 | | | | | | | | | | | | | | | | |
| 10 | 98 | 94 | 91 | 89 | 98 | 93 | 91 | 89 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 90 | 88 | 87 | | | 87 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 2531943 |
| 5° | 1200646 |
| 10° | 246234 |
| 15° | 67598 |
| 20° | 27243 |
| 25° | 14599 |
| 30° | 8642 |
| 35° | 5615 |
| 40° | 3751 |
| 45° | 2441 |
| 50° | 1343 |
| 55° | 1010 |
| 60° | 568 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2441 cd/sqm



TEST NUMBER: P741844

CATALOG NUMBER: LD4D10D010-EU4DR100210IC9040-4LBS1B

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 756.8 | 71.1 |
| 10°-20° | 204.8 | 19.2 |
| 20°-30° | 58.6 | 5.5 |
| 30°-40° | 26.8 | 2.5 |
| 40°-50° | 12.3 | 1.2 |
| 50°-60° | 4.1 | 0.4 |
| 60°-70° | 0.9 | 0.1 |
| 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° | 1020.2 | 95.9 |
| 0°-40° | 1047.0 | 98.4 |
| 0°-60° | 1063.3 | 99.9 |
| 0°-90° | 1064.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1064.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 23173 | |
| 5° | 10947 | 757 |
| 15° | 598 | 205 |
| 25° | 121 | 59 |
| 35° | 42 | 27 |
| 45° | 16 | 12 |
| 55° | 5 | 4 |
| 65° | 0 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P741844

CATALOG NUMBER: LD4D10D010-EU4DR100210IC9040-4LBS1B

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|---------|
| 0° | 23173.4 |
| 0.5° | 22973.3 |
| 1° | 22459.9 |
| 1.5° | 21470.0 |
| 2° | 20361.6 |
| 2.5° | 18897.8 |
| 3° | 17270.8 |
| 3.5° | 15696.4 |
| 4° | 13998.3 |
| 4.5° | 12434.5 |
| 5° | 10947.0 |
| 5.5° | 9599.0 |
| 6° | 8314.2 |
| 6.5° | 7184.8 |
| 7° | 6121.1 |
| 7.5° | 5212.8 |
| 8° | 4407.2 |
| 8.5° | 3701.6 |
| 9° | 3090.8 |
| 9.5° | 2624.8 |
| 10° | 2219.4 |
| 12.5° | 1058.4 |
| 15° | 597.6 |
| 17.5° | 363.3 |
| 20° | 234.3 |
| 22.5° | 163.2 |
| 25° | 121.1 |
| 27.5° | 89.5 |
| 30° | 68.5 |
| 32.5° | 52.7 |
| 35° | 42.1 |
| 37.5° | 31.6 |
| 40° | 26.3 |
| 42.5° | 21.1 |
| 45° | 15.8 |
| 47.5° | 10.5 |
| 50° | 7.9 |
| 52.5° | 5.3 |
| 55° | 5.3 |
| 57.5° | 2.6 |
| 60° | 2.6 |
| 62.5° | 2.6 |
| 65° | 0.0 |



TEST NUMBER: P741844
CATALOG NUMBER: LD4D10D010-EU4DR100210IC9040-4LBS1B

CANDELA DISTRIBUTION (continued):

| | 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 |

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

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report





| | | |
|-------|--|-----|
| 67.5° | | 0.0 |
| 70° | | 0.0 |

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

Scaled Data Report



(END OF REPORT)