

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: P793615

Luminaire Tested: LER6D50D010-EC6DR6540509040-6LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P793615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D50D010-EC6DR6540509040-6LBDDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3976.2 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

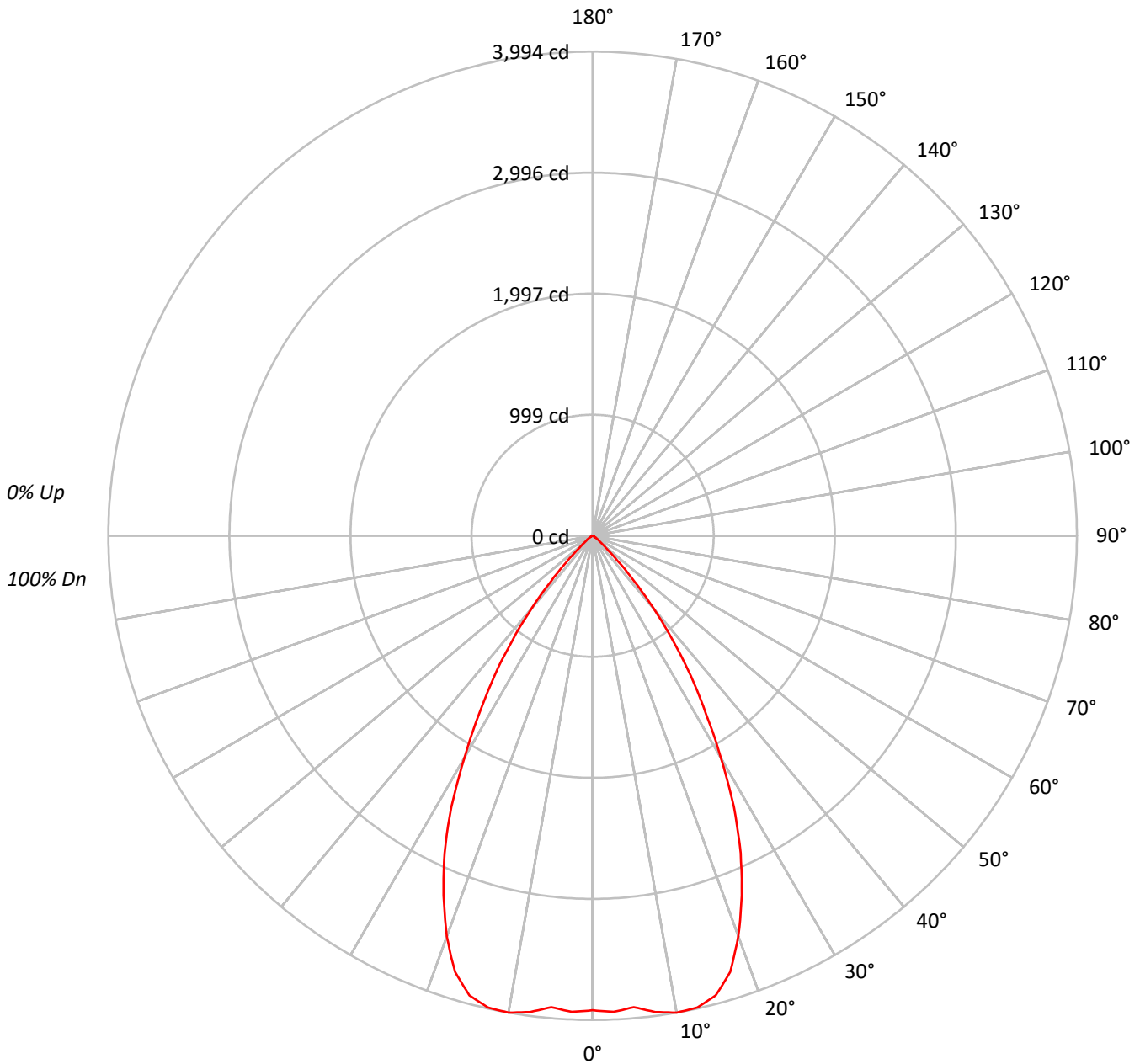


Downlight

TEST NUMBER: P793615

CATALOG NUMBER: LER6D50D010-EC6DR6540509040-6LBDP1B

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | | 101 | 99 | 98 | | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 94 | 98 | 95 | 92 | | 95 | 92 | 90 | | 92 | 90 | 88 | 87 |
| 3 | 102 | 96 | 91 | 87 | 100 | 94 | 90 | 86 | 92 | 88 | 85 | | 89 | 86 | 83 | | 87 | 84 | 82 | 80 |
| 4 | 97 | 89 | 84 | 79 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | | 84 | 80 | 77 | | 82 | 79 | 76 | 75 |
| 5 | 92 | 83 | 78 | 73 | 90 | 83 | 77 | 73 | 81 | 76 | 72 | | 79 | 75 | 72 | | 77 | 74 | 71 | 69 |
| 6 | 87 | 78 | 72 | 68 | 86 | 77 | 72 | 68 | 76 | 71 | 67 | | 74 | 70 | 67 | | 73 | 69 | 66 | 65 |
| 7 | 83 | 73 | 67 | 63 | 81 | 73 | 67 | 63 | 71 | 66 | 62 | | 70 | 66 | 62 | | 69 | 65 | 62 | 60 |
| 8 | 79 | 69 | 63 | 59 | 77 | 68 | 63 | 59 | 67 | 62 | 58 | | 66 | 62 | 58 | | 65 | 61 | 58 | 57 |
| 9 | 75 | 65 | 59 | 55 | 74 | 65 | 59 | 55 | 64 | 58 | 55 | | 63 | 58 | 55 | | 62 | 58 | 54 | 53 |
| 10 | 71 | 61 | 56 | 52 | 70 | 61 | 55 | 52 | 60 | 55 | 51 | | 59 | 55 | 51 | | 59 | 54 | 51 | 50 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 427734 |
| 5° | 428085 |
| 10° | 443153 |
| 15° | 443886 |
| 20° | 408676 |
| 25° | 348214 |
| 30° | 266571 |
| 35° | 188323 |
| 40° | 111166 |
| 45° | 45135 |
| 50° | 16352 |
| 55° | 9105 |
| 60° | 5223 |
| 65° | 2870 |
| 70° | 3035 |
| 75° | 2364 |
| 80° | 2454 |
| 85° | 2131 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 45135 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 377.0 | 9.5 |
| 10°-20° | 1087.4 | 27.3 |
| 20°-30° | 1304.6 | 32.8 |
| 30°-40° | 876.8 | 22.1 |
| 40°-50° | 262.5 | 6.6 |
| 50°-60° | 46.3 | 1.2 |
| 60°-70° | 13.2 | 0.3 |
| 70°-80° | 6.5 | 0.2 |
| 80°-90° | 2.1 | 0.1 |
| 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° | 2768.9 | 69.6 |
| 0°-40° | 3645.7 | 91.7 |
| 0°-60° | 3954.5 | 99.5 |
| 0°-90° | 3976.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3976.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3915 | |
| 5° | 3903 | 377 |
| 15° | 3924 | 1087 |
| 25° | 2888 | 1305 |
| 35° | 1412 | 877 |
| 45° | 292 | 262 |
| 55° | 48 | 46 |
| 65° | 11 | 13 |
| 75° | 6 | 6 |
| 85° | 2 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3914.8 |
| 2.5° | 3931.5 |
| 5° | 3903.1 |
| 7.5° | 3962.1 |
| 10° | 3994.3 |
| 12.5° | 3986.5 |
| 15° | 3924.2 |
| 17.5° | 3771.8 |
| 20° | 3514.8 |
| 22.5° | 3212.1 |
| 25° | 2888.4 |
| 27.5° | 2522.9 |
| 30° | 2112.9 |
| 32.5° | 1741.3 |
| 35° | 1411.9 |
| 37.5° | 1086.5 |
| 40° | 779.4 |
| 42.5° | 509.0 |
| 45° | 292.1 |
| 47.5° | 154.7 |
| 50° | 96.2 |
| 52.5° | 66.8 |
| 55° | 47.8 |
| 57.5° | 34.5 |
| 60° | 23.9 |
| 62.5° | 15.6 |
| 65° | 11.1 |
| 67.5° | 10.0 |
| 70° | 9.5 |
| 72.5° | 7.2 |
| 75° | 5.6 |
| 77.5° | 5.0 |
| 80° | 3.9 |
| 82.5° | 2.8 |
| 85° | 1.7 |
| 87.5° | 1.1 |
| 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

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— 0°-180°

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