

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: P787090

Luminaire Tested: LER6D02D010-EC6DR300210IC9030-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P787090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D02D010-EC6DR300210IC9030-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 551.1 lumens
Efficiency: N/A
Efficacy: 108.1 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): 5.1
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

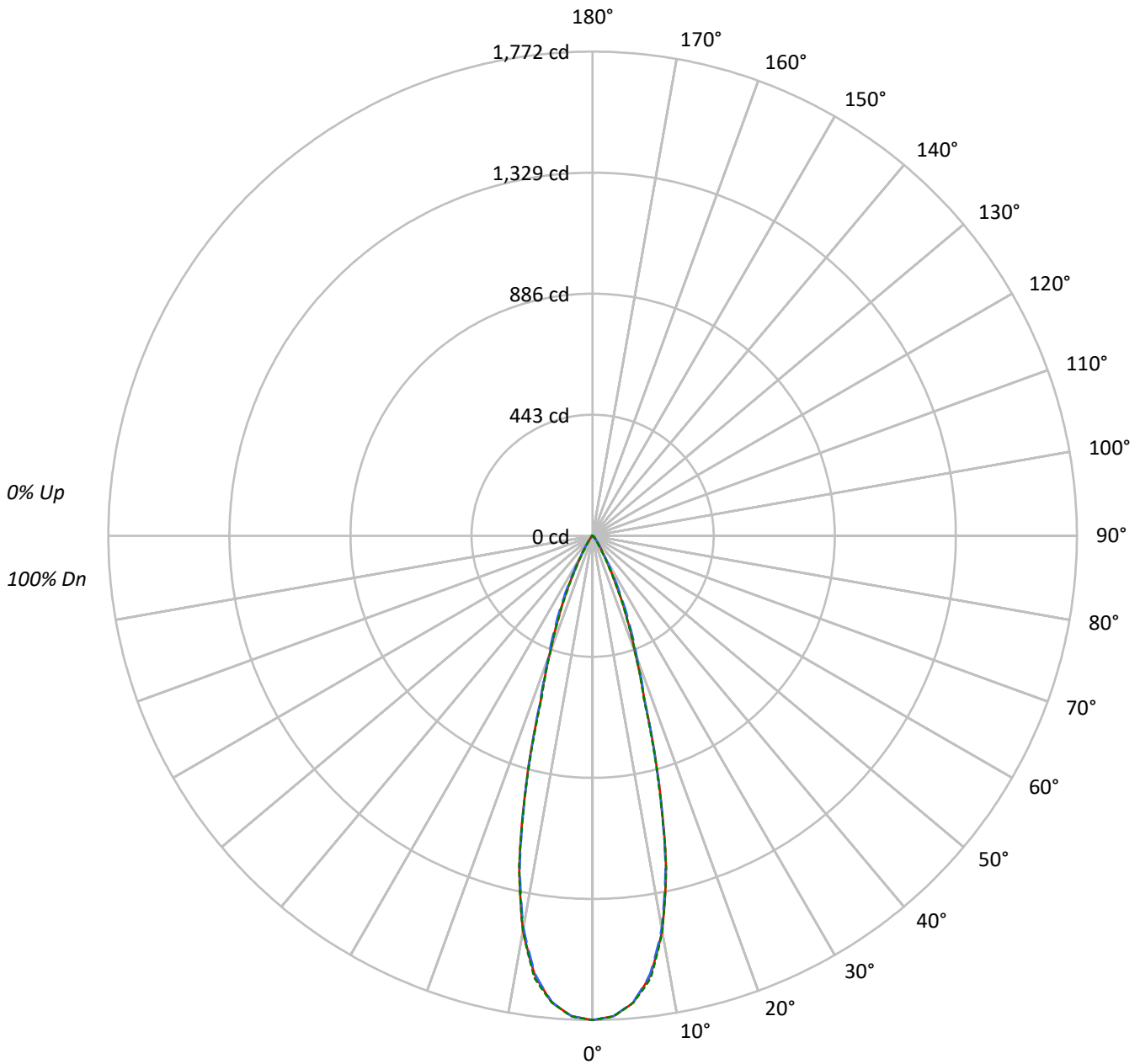


Downlight

TEST NUMBER: P787090

CATALOG NUMBER: LER6D02D010-EC6DR300210IC9030-6LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P787090

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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 | | | | | | | | | | | | | | | | | | | |
| 1 | 115 | 113 | 111 | 109 | 112 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99 | 99 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 2 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 100 | 102 | 100 | 98 | 99 | 97 | 96 | 97 | 95 | 94 | 92 | | | | | | | | | | | | | | | | | | | |
| 3 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 94 | 92 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 4 | 103 | 98 | 93 | 90 | 102 | 96 | 93 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 90 | 86 | 84 | 88 | 86 | 83 | 82 | | | | | | | | | | | | | | | | | | | |
| 6 | 97 | 90 | 85 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 83 | 80 | 79 | | | | | | | | | | | | | | | | | | | |
| 7 | 94 | 87 | 82 | 79 | 92 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | | | | | | | | | | | | | | | | | | | |
| 8 | 91 | 84 | 79 | 76 | 90 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 | | | | | | | | | | | | | | | | | | | |
| 9 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 72 | | | | | | | | | | | | | | | | | | | |
| 10 | 85 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 71 | 76 | 73 | 70 | 69 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 135635 | 135635 | 135635 |
| 5° | 131743 | 131589 | 131743 |
| 10° | 114107 | 113299 | 114076 |
| 15° | 74449 | 74045 | 73673 |
| 20° | 37022 | 38406 | 36973 |
| 25° | 18648 | 21030 | 18268 |
| 30° | 7469 | 8131 | 6505 |
| 35° | 3467 | 3317 | 2785 |
| 40° | 1499 | 1659 | 1409 |
| 45° | 1050 | 1310 | 1061 |
| 50° | 357 | 953 | 381 |
| 55° | 214 | 400 | 227 |
| 60° | 153 | 168 | 153 |
| 65° | 91 | 91 | 91 |
| 70° | 67 | 45 | 67 |
| 75° | 0 | 30 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1310 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.8 | 28.3 |
| 10°-20° | 250.9 | 45.5 |
| 20°-30° | 108.4 | 19.7 |
| 30°-40° | 24.7 | 4.5 |
| 40°-50° | 8.5 | 1.5 |
| 50°-60° | 2.1 | 0.4 |
| 60°-70° | 0.5 | 0.1 |
| 70°-80° | 0.1 | 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° | 515.2 | 93.5 |
| 0°-40° | 539.9 | 98.0 |
| 0°-60° | 550.5 | 99.9 |
| 0°-90° | 551.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 551.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1772 | 1772 | 1772 | 1772 | 1772 | |
| 5° | 1715 | 1713 | 1713 | 1716 | 1715 | 156 |
| 15° | 940 | 928 | 934 | 931 | 930 | 252 |
| 25° | 221 | 229 | 249 | 223 | 216 | 106 |
| 35° | 37 | 38 | 36 | 35 | 30 | 25 |
| 45° | 10 | 12 | 12 | 12 | 10 | 7 |
| 55° | 2 | 2 | 3 | 2 | 2 | 2 |
| 65° | 0 | 0 | 0 | 0 | 0 | 1 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1772.0 | 1772.0 | 1772.0 | 1772.0 | 1772.0 |
| 2.5° | 1760.2 | 1759.0 | 1759.7 | 1760.6 | 1760.9 |
| 5° | 1714.6 | 1712.9 | 1712.6 | 1716.1 | 1714.6 |
| 7.5° | 1622.4 | 1620.1 | 1616.5 | 1624.6 | 1632.2 |
| 10° | 1468.1 | 1465.5 | 1457.7 | 1461.6 | 1467.7 |
| 12.5° | 1240.2 | 1231.8 | 1231.6 | 1243.8 | 1242.2 |
| 15° | 939.5 | 928.2 | 934.4 | 931.4 | 929.7 |
| 17.5° | 631.8 | 627.4 | 635.8 | 633.3 | 622.4 |
| 20° | 454.5 | 455.6 | 471.5 | 463.5 | 453.9 |
| 22.5° | 331.6 | 335.7 | 354.6 | 334.0 | 326.4 |
| 25° | 220.8 | 229.2 | 249.0 | 223.3 | 216.3 |
| 27.5° | 135.8 | 139.6 | 159.7 | 134.1 | 130.2 |
| 30° | 84.5 | 82.6 | 92.0 | 79.0 | 73.6 |
| 32.5° | 55.4 | 53.0 | 56.0 | 50.3 | 45.9 |
| 35° | 37.1 | 37.8 | 35.5 | 35.2 | 29.8 |
| 37.5° | 23.1 | 26.6 | 23.5 | 25.1 | 19.1 |
| 40° | 15.0 | 19.3 | 16.6 | 18.4 | 14.1 |
| 42.5° | 12.3 | 14.9 | 13.7 | 14.5 | 12.5 |
| 45° | 9.7 | 12.1 | 12.1 | 12.1 | 9.8 |
| 47.5° | 5.4 | 8.1 | 10.4 | 8.3 | 5.7 |
| 50° | 3.0 | 4.1 | 8.0 | 4.3 | 3.2 |
| 52.5° | 2.1 | 2.3 | 5.5 | 2.4 | 2.2 |
| 55° | 1.6 | 1.7 | 3.0 | 1.7 | 1.7 |
| 57.5° | 1.2 | 1.3 | 1.6 | 1.3 | 1.2 |
| 60° | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 |
| 62.5° | 0.7 | 0.7 | 0.8 | 0.7 | 0.7 |
| 65° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 67.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 70° | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 |
| 72.5° | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| 75° | 0.0 | 0.0 | 0.1 | 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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