

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: P786683

Luminaire Tested: LERS6D15D010-EC6DR300215IC9030-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P786683
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: LERS6D15D010-EC6DR300215IC9030-6LBS1MW
Description: 6 INCH ROUND SHALLOW 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: 2381.7 lumens
Efficiency: N/A
Efficacy: 150.7 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): 15.8
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

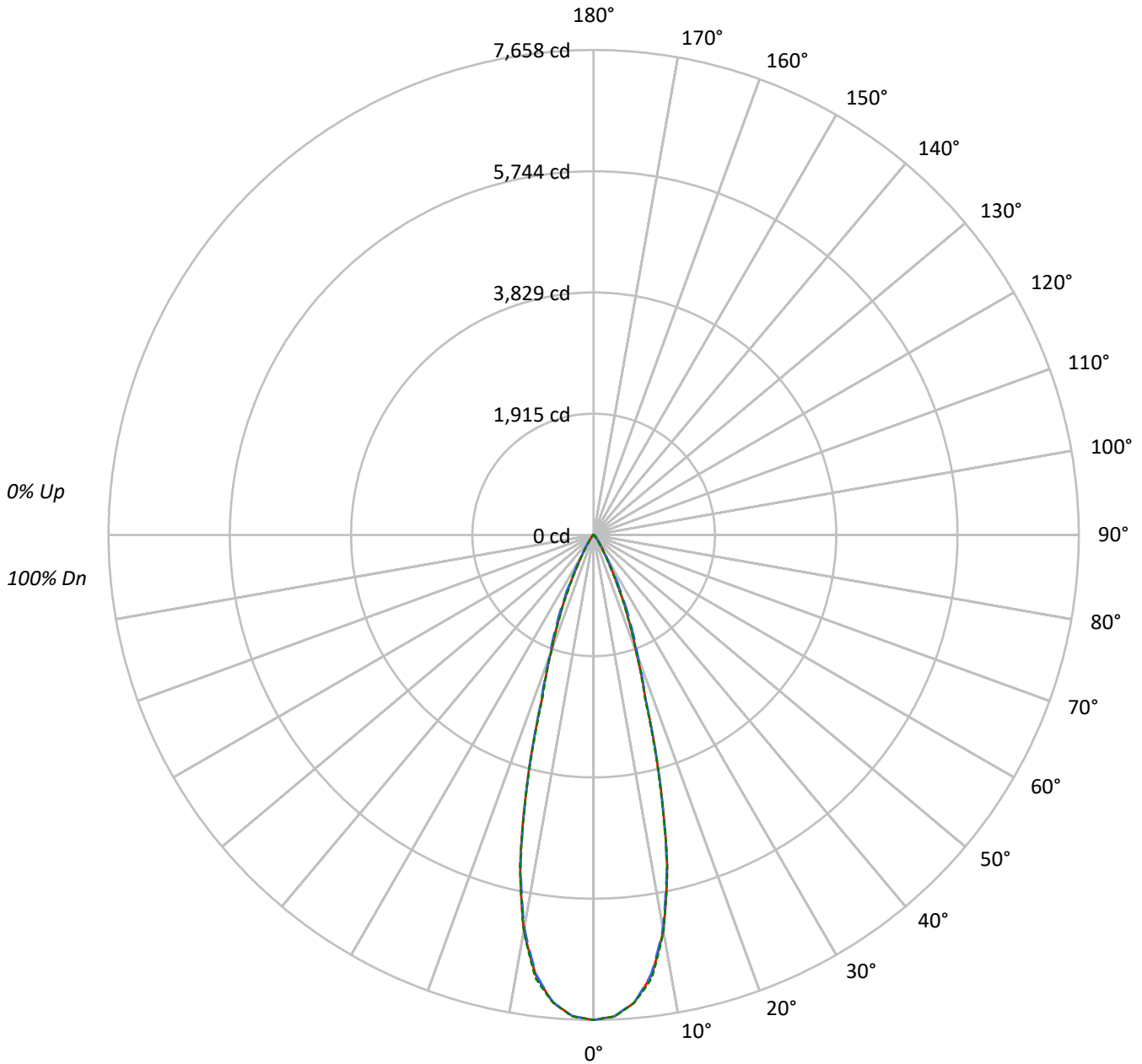


Downlight

TEST NUMBER: P786683

CATALOG NUMBER: LERS6D15D010-EC6DR300215IC9030-6LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P786683

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 586192 | 586192 | 586192 |
| 5° | 569361 | 568700 | 569392 |
| 10° | 493152 | 489678 | 493036 |
| 15° | 321761 | 320033 | 318424 |
| 20° | 159995 | 165999 | 159784 |
| 25° | 80597 | 90883 | 78941 |
| 30° | 32269 | 35159 | 28115 |
| 35° | 14969 | 14334 | 12017 |
| 40° | 6465 | 7174 | 6085 |
| 45° | 4557 | 5661 | 4601 |
| 50° | 1572 | 4120 | 1655 |
| 55° | 907 | 1708 | 947 |
| 60° | 628 | 750 | 628 |
| 65° | 417 | 417 | 417 |
| 70° | 246 | 179 | 246 |
| 75° | 0 | 118 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5661 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 673.4 | 28.3 |
| 10°-20° | 1084.6 | 45.5 |
| 20°-30° | 468.7 | 19.7 |
| 30°-40° | 106.8 | 4.5 |
| 40°-50° | 36.7 | 1.5 |
| 50°-60° | 9.0 | 0.4 |
| 60°-70° | 2.3 | 0.1 |
| 70°-80° | 0.3 | 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° | 2226.7 | 93.5 |
| 0°-40° | 2333.5 | 98.0 |
| 0°-60° | 2379.1 | 99.9 |
| 0°-90° | 2381.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2381.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 7658 | 7658 | 7658 | 7658 | 7658 | |
| 5° | 7410 | 7403 | 7402 | 7417 | 7410 | 674 |
| 15° | 4060 | 4012 | 4039 | 4025 | 4018 | 1087 |
| 25° | 954 | 990 | 1076 | 965 | 935 | 457 |
| 35° | 160 | 164 | 153 | 152 | 129 | 109 |
| 45° | 42 | 52 | 52 | 52 | 42 | 30 |
| 55° | 7 | 7 | 13 | 8 | 7 | 7 |
| 65° | 2 | 2 | 2 | 2 | 2 | 2 |
| 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° | 7658.3 | 7658.3 | 7658.3 | 7658.3 | 7658.3 |
| 2.5° | 7607.5 | 7602.3 | 7605.3 | 7609.0 | 7610.5 |
| 5° | 7410.1 | 7403.0 | 7401.5 | 7416.9 | 7410.5 |
| 7.5° | 7012.0 | 7001.8 | 6986.4 | 7021.4 | 7054.1 |
| 10° | 6344.9 | 6333.7 | 6300.2 | 6316.7 | 6343.4 |
| 12.5° | 5360.2 | 5323.7 | 5323.0 | 5375.6 | 5368.5 |
| 15° | 4060.4 | 4011.5 | 4038.6 | 4025.4 | 4018.3 |
| 17.5° | 2730.5 | 2711.7 | 2747.8 | 2736.9 | 2689.9 |
| 20° | 1964.2 | 1969.1 | 2037.9 | 2003.3 | 1961.6 |
| 22.5° | 1433.3 | 1451.0 | 1532.6 | 1443.5 | 1410.7 |
| 25° | 954.3 | 990.4 | 1076.1 | 965.2 | 934.7 |
| 27.5° | 586.9 | 603.5 | 690.3 | 579.4 | 562.9 |
| 30° | 365.1 | 356.8 | 397.8 | 341.4 | 318.1 |
| 32.5° | 239.5 | 229.0 | 242.1 | 217.3 | 198.5 |
| 35° | 160.2 | 163.6 | 153.4 | 152.3 | 128.6 |
| 37.5° | 100.0 | 115.1 | 101.5 | 108.3 | 82.7 |
| 40° | 64.7 | 83.5 | 71.8 | 79.3 | 60.9 |
| 42.5° | 53.0 | 64.3 | 59.0 | 62.8 | 54.1 |
| 45° | 42.1 | 52.3 | 52.3 | 52.3 | 42.5 |
| 47.5° | 23.3 | 35.0 | 44.7 | 35.7 | 24.8 |
| 50° | 13.2 | 17.7 | 34.6 | 18.4 | 13.9 |
| 52.5° | 9.0 | 10.2 | 23.7 | 10.5 | 9.4 |
| 55° | 6.8 | 7.1 | 12.8 | 7.5 | 7.1 |
| 57.5° | 5.3 | 5.6 | 6.8 | 5.6 | 5.3 |
| 60° | 4.1 | 4.1 | 4.9 | 4.5 | 4.1 |
| 62.5° | 3.0 | 3.0 | 3.4 | 3.0 | 3.0 |
| 65° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| 67.5° | 1.1 | 1.5 | 1.5 | 1.5 | 1.5 |
| 70° | 1.1 | 0.8 | 0.8 | 0.8 | 1.1 |
| 72.5° | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 |
| 75° | 0.0 | 0.0 | 0.4 | 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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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