

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: P790039

Luminaire Tested: LER6D20D010-EC6DR1515309027-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D20D010-EC6DR1515309027-6LBDDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1752.9 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

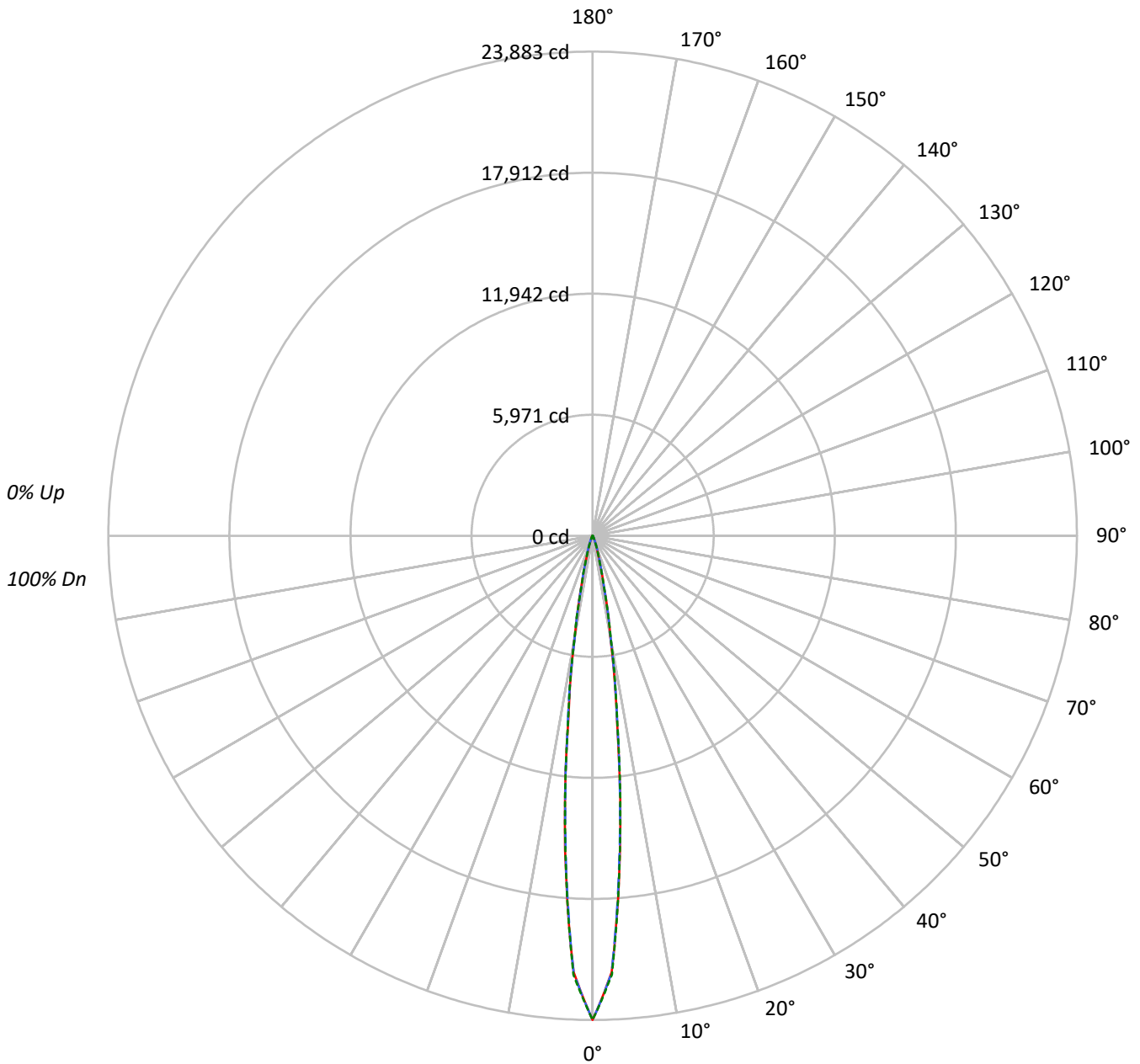
Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P790039
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Luminous Intensity Polar Plot





TEST NUMBER: P790039

CATALOG NUMBER: LER6D20D010-EC6DR1515309027-6LBDP1B

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 | | | | | | | | | | | | | | | | | | | |
| 1 | 116 | 114 | 112 | 111 | 113 | 112 | 110 | 109 | 108 | 107 | 106 | 104 | 103 | 103 | 101 | 100 | 100 | 98 | | | | | | | | | | | | | | | | | | | |
| 2 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 104 | 105 | 103 | 102 | 102 | 101 | 100 | 100 | 98 | 98 | 96 | | | | | | | | | | | | | | | | | | | |
| 3 | 110 | 106 | 103 | 101 | 108 | 105 | 102 | 100 | 103 | 100 | 99 | 100 | 99 | 97 | 98 | 97 | 96 | 94 | | | | | | | | | | | | | | | | | | | |
| 4 | 108 | 103 | 100 | 98 | 106 | 102 | 99 | 97 | 100 | 98 | 96 | 99 | 97 | 95 | 97 | 95 | 94 | 93 | | | | | | | | | | | | | | | | | | | |
| 5 | 106 | 101 | 98 | 95 | 104 | 100 | 97 | 95 | 98 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 92 | 92 | | | | | | | | | | | | | | | | | | | |
| 6 | 104 | 99 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 93 | 92 | 95 | 93 | 91 | 90 | | | | | | | | | | | | | | | | | | | |
| 7 | 102 | 97 | 94 | 91 | 101 | 96 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 90 | 93 | 91 | 90 | 89 | | | | | | | | | | | | | | | | | | | |
| 8 | 100 | 95 | 92 | 90 | 99 | 95 | 92 | 90 | 94 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 88 | | | | | | | | | | | | | | | | | | | |
| 9 | 99 | 93 | 90 | 88 | 98 | 93 | 90 | 88 | 92 | 90 | 88 | 92 | 89 | 88 | 91 | 89 | 88 | 87 | | | | | | | | | | | | | | | | | | | |
| 10 | 97 | 92 | 89 | 87 | 96 | 92 | 89 | 87 | 91 | 89 | 87 | 91 | 88 | 87 | 90 | 88 | 86 | 86 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|---------|---------|---------|
| 0° | 2687303 | 2687303 | 2687303 |
| 5° | 1579181 | 1558733 | 1571071 |
| 10° | 471315 | 474618 | 481878 |
| 15° | 117231 | 119515 | 115832 |
| 20° | 35077 | 40617 | 35822 |
| 25° | 12363 | 15752 | 12526 |
| 30° | 4545 | 5983 | 4620 |
| 35° | 2273 | 2571 | 2200 |
| 40° | 1434 | 1577 | 1434 |
| 45° | 1064 | 1134 | 1064 |
| 50° | 841 | 841 | 841 |
| 55° | 703 | 703 | 703 |
| 60° | 569 | 569 | 569 |
| 65° | 435 | 435 | 435 |
| 70° | 373 | 373 | 373 |
| 75° | 227 | 227 | 302 |
| 80° | 158 | 158 | 158 |
| 85° | 83 | 83 | 83 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1134 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1136.9 | 64.9 |
| 10°-20° | 467.6 | 26.7 |
| 20°-30° | 92.9 | 5.3 |
| 30°-40° | 23.2 | 1.3 |
| 40°-50° | 12.2 | 0.7 |
| 50°-60° | 9.0 | 0.5 |
| 60°-70° | 6.4 | 0.4 |
| 70°-80° | 3.6 | 0.2 |
| 80°-90° | 1.1 | 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° | 1697.4 | 96.8 |
| 0°-40° | 1720.6 | 98.2 |
| 0°-60° | 1741.8 | 99.4 |
| 0°-90° | 1752.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1752.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 23883 | 23883 | 23883 | 23883 | 23883 | |
| 5° | 15539 | 15379 | 15338 | 15444 | 15459 | 1135 |
| 15° | 1350 | 1375 | 1376 | 1352 | 1334 | 463 |
| 25° | 159 | 180 | 202 | 179 | 161 | 83 |
| 35° | 31 | 33 | 35 | 33 | 30 | 21 |
| 45° | 15 | 15 | 16 | 15 | 15 | 12 |
| 55° | 10 | 10 | 10 | 10 | 10 | 9 |
| 65° | 6 | 6 | 6 | 6 | 6 | 6 |
| 75° | 3 | 3 | 3 | 3 | 4 | 4 |
| 85° | 1 | 1 | 1 | 1 | 1 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 23882.9 | 23882.9 | 23882.9 | 23882.9 | 23882.9 |
| 2.5° | 21543.3 | 21561.5 | 21568.6 | 21589.8 | 21668.7 |
| 5° | 15538.7 | 15379.0 | 15337.5 | 15443.7 | 15458.9 |
| 7.5° | 9204.5 | 9236.9 | 9355.2 | 9381.5 | 9286.4 |
| 10° | 5051.2 | 5092.6 | 5086.6 | 5123.0 | 5164.4 |
| 12.5° | 2583.2 | 2550.9 | 2540.8 | 2582.2 | 2524.6 |
| 15° | 1349.7 | 1375.0 | 1376.0 | 1351.8 | 1333.6 |
| 17.5° | 725.9 | 755.3 | 803.8 | 764.3 | 703.7 |
| 20° | 428.7 | 455.0 | 496.4 | 464.1 | 437.8 |
| 22.5° | 264.9 | 286.1 | 315.4 | 290.2 | 268.9 |
| 25° | 158.7 | 180.0 | 202.2 | 179.0 | 160.8 |
| 27.5° | 94.0 | 112.2 | 126.4 | 111.2 | 93.0 |
| 30° | 60.7 | 70.8 | 79.9 | 69.8 | 61.7 |
| 32.5° | 42.5 | 46.5 | 50.6 | 46.5 | 42.5 |
| 35° | 31.3 | 33.4 | 35.4 | 33.4 | 30.3 |
| 37.5° | 24.3 | 26.3 | 27.3 | 25.3 | 23.3 |
| 40° | 20.2 | 21.2 | 22.2 | 21.2 | 20.2 |
| 42.5° | 17.2 | 18.2 | 18.2 | 18.2 | 17.2 |
| 45° | 15.2 | 15.2 | 16.2 | 15.2 | 15.2 |
| 47.5° | 13.1 | 13.1 | 14.2 | 13.1 | 13.1 |
| 50° | 12.1 | 12.1 | 12.1 | 12.1 | 12.1 |
| 52.5° | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 |
| 55° | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 |
| 57.5° | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 |
| 60° | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 |
| 62.5° | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| 65° | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 67.5° | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 70° | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| 72.5° | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 75° | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 |
| 77.5° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| 80° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 82.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 85° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 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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