

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



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: P790482

Luminaire Tested: LER6D20D010-EC6DR6020359030-6LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P790482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D20D010-EC6DR6020359030-6LBDDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3039.7 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

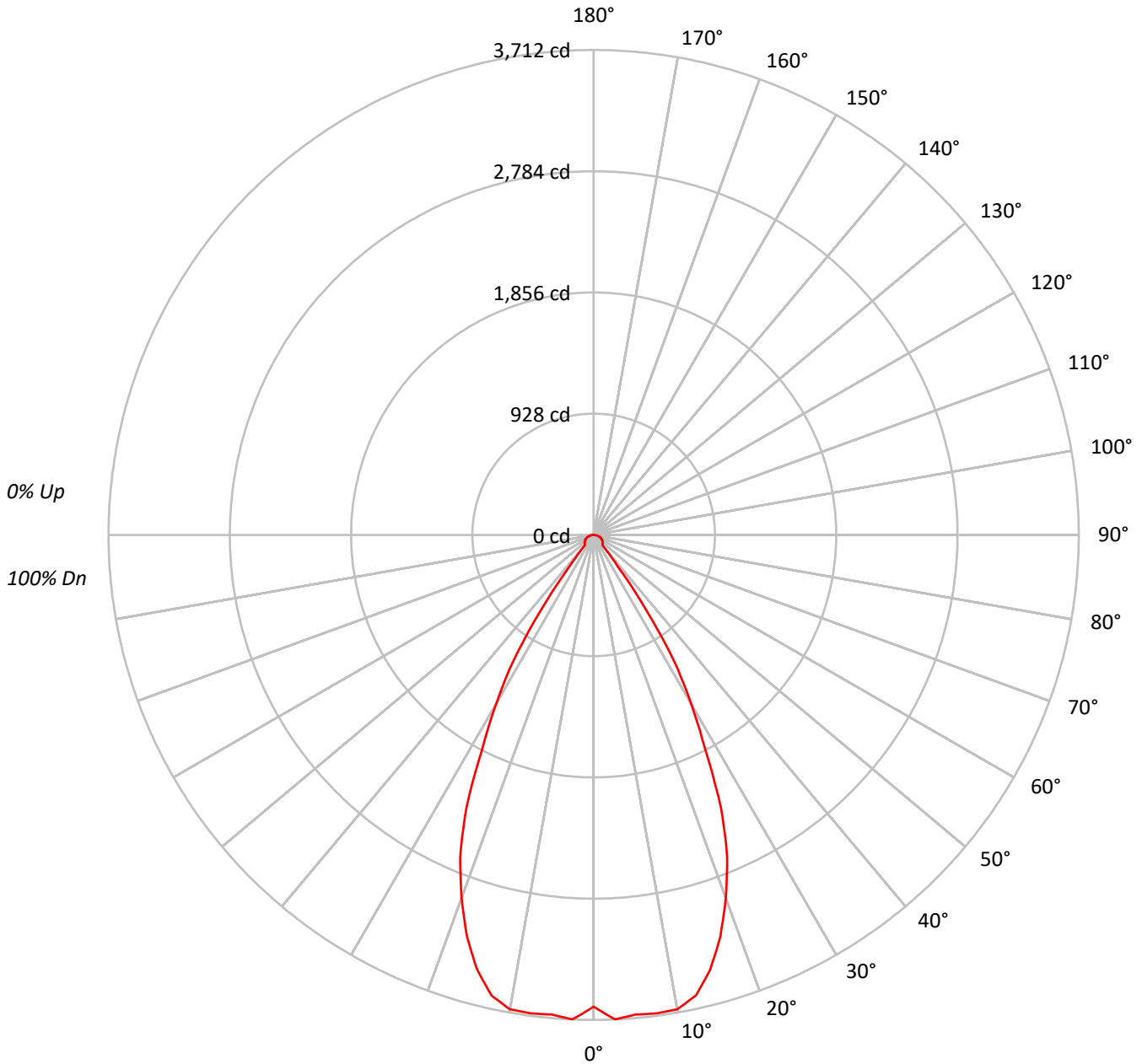
Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





TEST NUMBER: P790482

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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 | 0 | | | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | | | | | | | | | | | | |
| 1 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 95 | 93 | | | | | | | | | | | | | | | | | | | |
| 2 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 92 | 90 | 88 | 86 | | | | | | | | | | | | | | | | | | | |
| 3 | 102 | 96 | 90 | 86 | 100 | 94 | 89 | 86 | 91 | 88 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 | | | | | | | | | | | | | | | | | | | |
| 4 | 97 | 89 | 84 | 80 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 | | | | | | | | | | | | | | | | | | | |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 74 | 81 | 77 | 73 | 80 | 76 | 72 | 78 | 75 | 72 | 70 | | | | | | | | | | | | | | | | | | | |
| 6 | 88 | 79 | 73 | 69 | 87 | 78 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 66 | | | | | | | | | | | | | | | | | | | |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 68 | 64 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 63 | 62 | | | | | | | | | | | | | | | | | | | |
| 8 | 80 | 71 | 65 | 61 | 79 | 70 | 65 | 61 | 69 | 64 | 60 | 68 | 64 | 60 | 67 | 63 | 60 | 59 | | | | | | | | | | | | | | | | | | | |
| 9 | 77 | 67 | 61 | 57 | 75 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 55 | | | | | | | | | | | | | | | | | | | |
| 10 | 73 | 64 | 58 | 54 | 72 | 63 | 58 | 54 | 62 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 53 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 394442 |
| 5° | 404142 |
| 10° | 409026 |
| 15° | 389647 |
| 20° | 343551 |
| 25° | 277869 |
| 30° | 187958 |
| 35° | 94182 |
| 40° | 15276 |
| 45° | 14957 |
| 50° | 15247 |
| 55° | 15487 |
| 60° | 15908 |
| 65° | 16288 |
| 70° | 16644 |
| 75° | 16844 |
| 80° | 16234 |
| 85° | 13539 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 16844 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 352.2 | 11.6 |
| 10°-20° | 952.8 | 31.3 |
| 20°-30° | 1025.2 | 33.7 |
| 30°-40° | 445.6 | 14.7 |
| 40°-50° | 74.9 | 2.5 |
| 50°-60° | 72.8 | 2.4 |
| 60°-70° | 62.2 | 2.0 |
| 70°-80° | 41.6 | 1.4 |
| 80°-90° | 12.5 | 0.4 |
| 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° | 2330.2 | 76.7 |
| 0°-40° | 2775.8 | 91.3 |
| 0°-60° | 2923.4 | 96.2 |
| 0°-90° | 3039.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3039.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3610 | |
| 5° | 3685 | 352 |
| 15° | 3445 | 953 |
| 25° | 2305 | 1025 |
| 35° | 706 | 446 |
| 45° | 97 | 75 |
| 55° | 81 | 73 |
| 65° | 63 | 62 |
| 75° | 40 | 42 |
| 85° | 11 | 12 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3610.1 |
| 2.5° | 3711.6 |
| 5° | 3684.8 |
| 7.5° | 3693.2 |
| 10° | 3686.7 |
| 12.5° | 3610.6 |
| 15° | 3444.7 |
| 17.5° | 3222.0 |
| 20° | 2954.7 |
| 22.5° | 2668.6 |
| 25° | 2304.9 |
| 27.5° | 1843.6 |
| 30° | 1489.8 |
| 32.5° | 1148.2 |
| 35° | 706.1 |
| 37.5° | 302.1 |
| 40° | 107.1 |
| 42.5° | 98.7 |
| 45° | 96.8 |
| 47.5° | 93.5 |
| 50° | 89.7 |
| 52.5° | 85.5 |
| 55° | 81.3 |
| 57.5° | 77.1 |
| 60° | 72.8 |
| 62.5° | 68.1 |
| 65° | 63.0 |
| 67.5° | 57.8 |
| 70° | 52.1 |
| 72.5° | 46.0 |
| 75° | 39.9 |
| 77.5° | 32.9 |
| 80° | 25.8 |
| 82.5° | 18.3 |
| 85° | 10.8 |
| 87.5° | 3.8 |
| 90° | 0.0 |

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Scaled Data Report



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— 0°-180°

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