

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: P790200

Luminaire Tested: LER6D20D010-EC6DR3020359035-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790200
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: LER6D20D010-EC6DR3020359035-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3450.5 lumens
Efficiency: N/A
Efficacy: 149.4 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

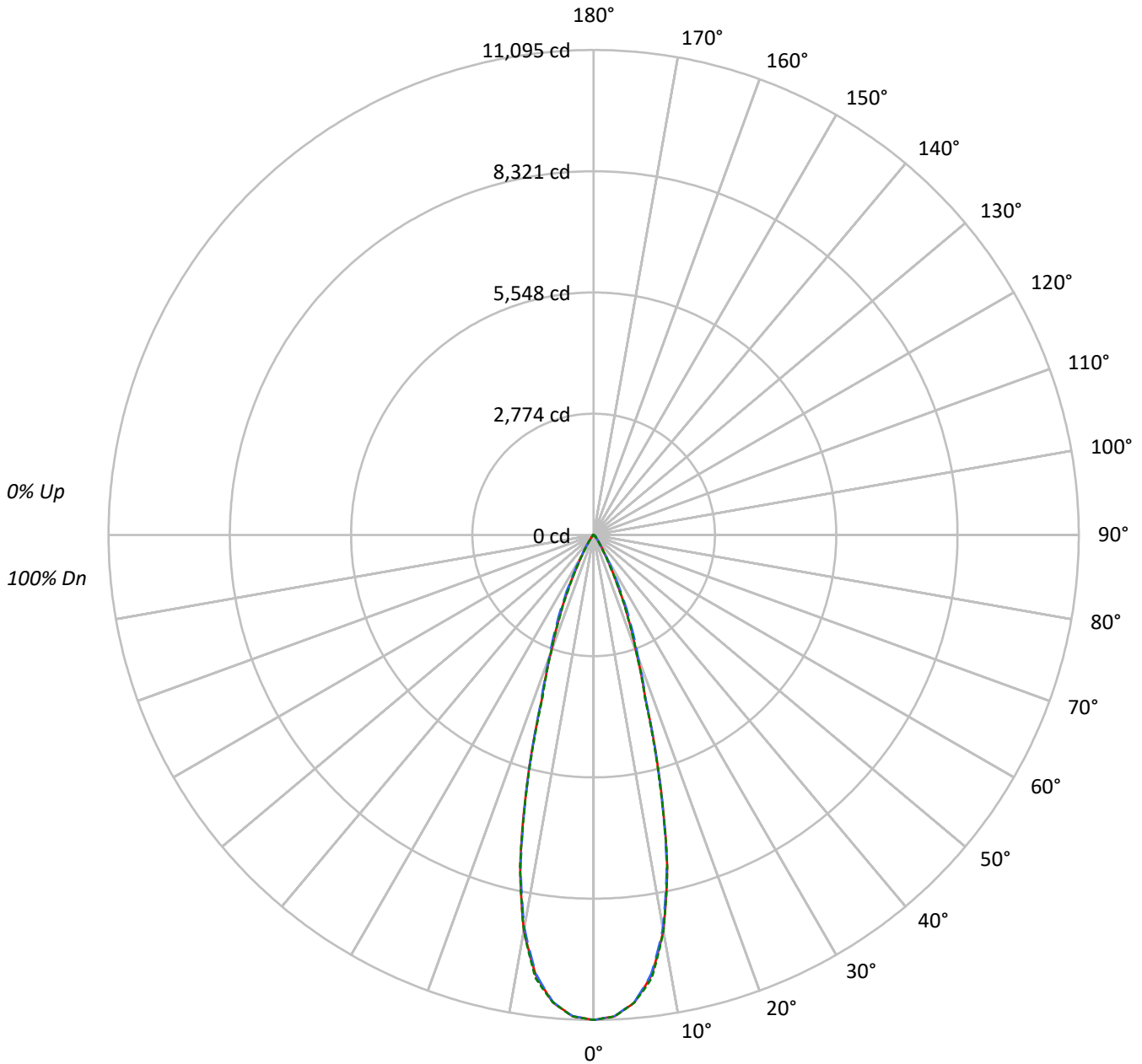
Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





TEST NUMBER: P790200

CATALOG NUMBER: LER6D20D010-EC6DR3020359035-6LBDP1H

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 | 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° | 849257 | 849257 | 849257 |
| 5° | 824878 | 823910 | 824917 |
| 10° | 714464 | 709428 | 714301 |
| 15° | 466150 | 463654 | 461316 |
| 20° | 231799 | 240490 | 231489 |
| 25° | 116761 | 131667 | 114371 |
| 30° | 46747 | 50936 | 40728 |
| 35° | 21688 | 20772 | 17408 |
| 40° | 9363 | 10392 | 8813 |
| 45° | 6603 | 8194 | 6668 |
| 50° | 2274 | 5966 | 2405 |
| 55° | 1308 | 2469 | 1375 |
| 60° | 919 | 1087 | 919 |
| 65° | 598 | 598 | 598 |
| 70° | 358 | 246 | 358 |
| 75° | 0 | 148 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8194 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 975.6 | 28.3 |
| 10°-20° | 1571.3 | 45.5 |
| 20°-30° | 679.0 | 19.7 |
| 30°-40° | 154.8 | 4.5 |
| 40°-50° | 53.1 | 1.5 |
| 50°-60° | 13.0 | 0.4 |
| 60°-70° | 3.4 | 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° | 3225.9 | 93.5 |
| 0°-40° | 3380.7 | 98.0 |
| 0°-60° | 3446.8 | 99.9 |
| 0°-90° | 3450.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3450.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 11095 | 11095 | 11095 | 11095 | 11095 | |
| 5° | 10736 | 10725 | 10723 | 10745 | 10736 | 976 |
| 15° | 5882 | 5812 | 5851 | 5832 | 5822 | 1575 |
| 25° | 1382 | 1435 | 1559 | 1398 | 1354 | 662 |
| 35° | 232 | 237 | 222 | 221 | 186 | 157 |
| 45° | 61 | 76 | 76 | 76 | 62 | 43 |
| 55° | 10 | 10 | 18 | 11 | 10 | 10 |
| 65° | 3 | 3 | 3 | 3 | 3 | 3 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------|---------|---------|---------|---------|
| 0° | 11095.1 | 11095.1 | 11095.1 | 11095.1 | 11095.1 |
| 2.5° | 11021.5 | 11013.9 | 11018.3 | 11023.7 | 11025.9 |
| 5° | 10735.6 | 10725.2 | 10723.0 | 10745.4 | 10736.1 |
| 7.5° | 10158.7 | 10144.0 | 10121.6 | 10172.3 | 10219.7 |
| 10° | 9192.3 | 9176.0 | 9127.5 | 9151.5 | 9190.2 |
| 12.5° | 7765.7 | 7712.8 | 7711.8 | 7788.0 | 7777.7 |
| 15° | 5882.5 | 5811.7 | 5851.0 | 5831.9 | 5821.5 |
| 17.5° | 3955.8 | 3928.6 | 3980.9 | 3965.1 | 3897.0 |
| 20° | 2845.7 | 2852.8 | 2952.4 | 2902.3 | 2841.9 |
| 22.5° | 2076.5 | 2102.1 | 2220.3 | 2091.2 | 2043.8 |
| 25° | 1382.5 | 1434.8 | 1559.0 | 1398.3 | 1354.2 |
| 27.5° | 850.3 | 874.3 | 1000.1 | 839.4 | 815.5 |
| 30° | 528.9 | 516.9 | 576.3 | 494.6 | 460.8 |
| 32.5° | 347.0 | 331.7 | 350.8 | 314.9 | 287.6 |
| 35° | 232.1 | 237.0 | 222.3 | 220.6 | 186.3 |
| 37.5° | 144.9 | 166.7 | 147.1 | 156.9 | 119.8 |
| 40° | 93.7 | 120.9 | 104.0 | 114.9 | 88.2 |
| 42.5° | 76.8 | 93.1 | 85.5 | 91.0 | 78.4 |
| 45° | 61.0 | 75.7 | 75.7 | 75.7 | 61.6 |
| 47.5° | 33.8 | 50.7 | 64.8 | 51.7 | 36.0 |
| 50° | 19.1 | 25.6 | 50.1 | 26.7 | 20.2 |
| 52.5° | 13.1 | 14.7 | 34.3 | 15.3 | 13.6 |
| 55° | 9.8 | 10.3 | 18.5 | 10.9 | 10.3 |
| 57.5° | 7.6 | 8.2 | 9.8 | 8.2 | 7.6 |
| 60° | 6.0 | 6.0 | 7.1 | 6.5 | 6.0 |
| 62.5° | 4.4 | 4.4 | 4.9 | 4.4 | 4.4 |
| 65° | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 67.5° | 1.6 | 2.2 | 2.2 | 2.2 | 2.2 |
| 70° | 1.6 | 1.1 | 1.1 | 1.1 | 1.6 |
| 72.5° | 1.1 | 0.5 | 0.5 | 0.5 | 0.5 |
| 75° | 0.0 | 0.0 | 0.5 | 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 |

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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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