

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: P793755

Luminaire Tested: LER6D55D010-EC6DR3055659035-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793755
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: LER6D55D010-EC6DR3055659035-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6341.2 lumens
Efficiency: N/A
Efficacy: 109.0 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): 58.2
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

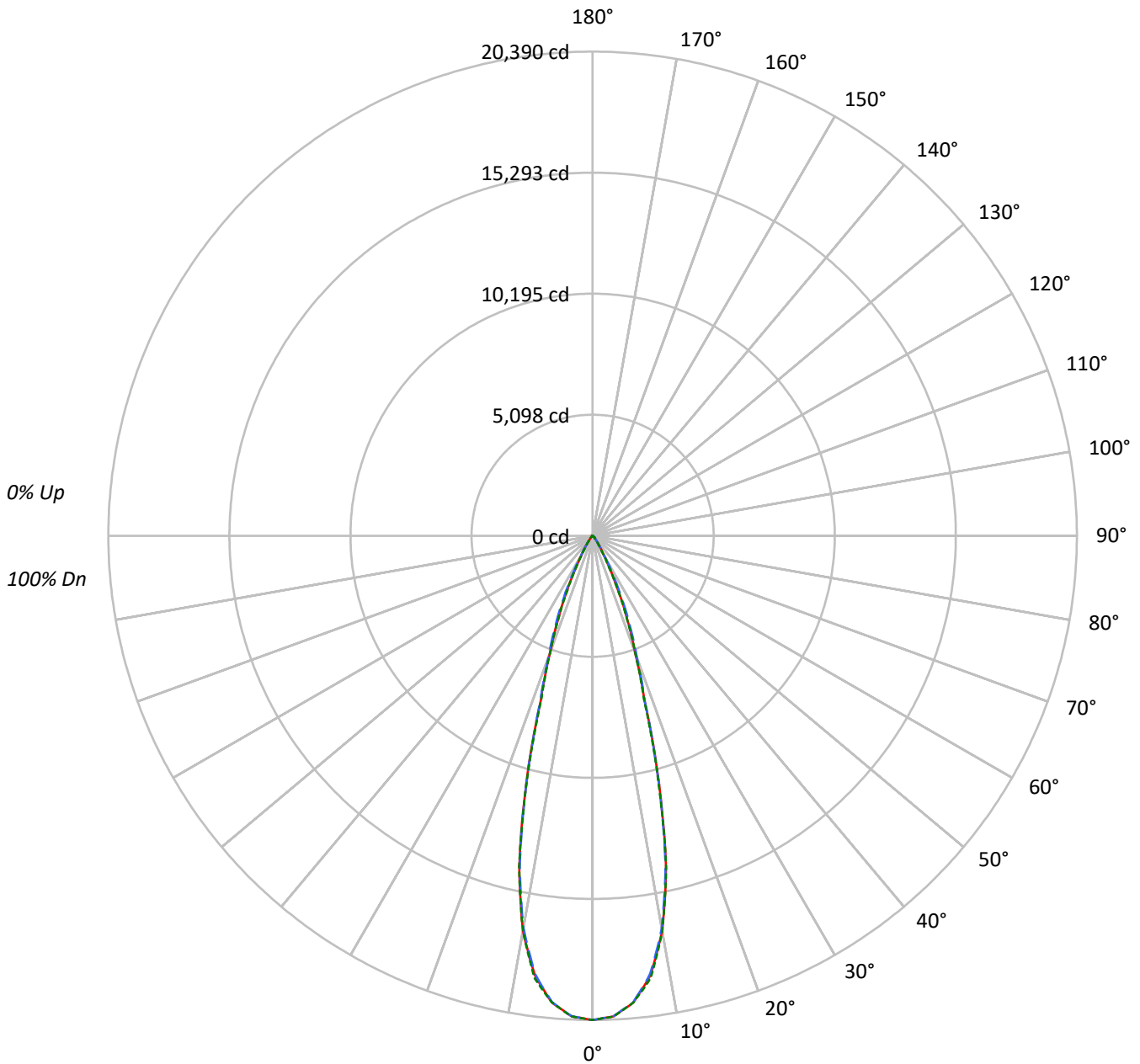


Downlight

TEST NUMBER: P793755

CATALOG NUMBER: LER6D55D010-EC6DR3055659035-6LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P793755

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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 | 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° | 1560735 | 1560735 | 1560735 |
| 5° | 1515932 | 1514164 | 1516008 |
| 10° | 1313026 | 1303769 | 1312715 |
| 15° | 856686 | 852082 | 847803 |
| 20° | 425989 | 441971 | 425419 |
| 25° | 214587 | 241976 | 210186 |
| 30° | 85919 | 93617 | 74853 |
| 35° | 39853 | 38162 | 31995 |
| 40° | 17206 | 19105 | 16207 |
| 45° | 12135 | 15068 | 12243 |
| 50° | 4168 | 10967 | 4406 |
| 55° | 2402 | 4537 | 2536 |
| 60° | 1684 | 1990 | 1684 |
| 65° | 1087 | 1087 | 1087 |
| 70° | 671 | 448 | 671 |
| 75° | 0 | 296 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15068 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1793.0 | 28.3 |
| 10°-20° | 2887.7 | 45.5 |
| 20°-30° | 1247.8 | 19.7 |
| 30°-40° | 284.4 | 4.5 |
| 40°-50° | 97.7 | 1.5 |
| 50°-60° | 23.8 | 0.4 |
| 60°-70° | 6.2 | 0.1 |
| 70°-80° | 0.7 | 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° | 5928.5 | 93.5 |
| 0°-40° | 6212.9 | 98.0 |
| 0°-60° | 6334.4 | 99.9 |
| 0°-90° | 6341.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6341.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 20390 | 20390 | 20390 | 20390 | 20390 | |
| 5° | 19730 | 19710 | 19706 | 19748 | 19730 | 1794 |
| 15° | 10811 | 10681 | 10753 | 10718 | 10699 | 2895 |
| 25° | 2541 | 2637 | 2865 | 2570 | 2489 | 1216 |
| 35° | 426 | 436 | 408 | 405 | 342 | 289 |
| 45° | 112 | 139 | 139 | 139 | 113 | 80 |
| 55° | 18 | 19 | 34 | 20 | 19 | 18 |
| 65° | 6 | 6 | 6 | 6 | 6 | 6 |
| 75° | 0 | 0 | 1 | 0 | 0 | 1 |
| 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° | 20390.2 | 20390.2 | 20390.2 | 20390.2 | 20390.2 |
| 2.5° | 20255.1 | 20241.1 | 20249.1 | 20259.1 | 20263.1 |
| 5° | 19729.5 | 19710.5 | 19706.5 | 19747.5 | 19730.5 |
| 7.5° | 18669.4 | 18642.3 | 18601.3 | 18694.4 | 18781.5 |
| 10° | 16893.4 | 16863.4 | 16774.3 | 16818.3 | 16889.4 |
| 12.5° | 14271.6 | 14174.5 | 14172.5 | 14312.6 | 14293.6 |
| 15° | 10810.8 | 10680.6 | 10752.7 | 10717.7 | 10698.7 |
| 17.5° | 7269.9 | 7219.9 | 7316.0 | 7286.9 | 7161.8 |
| 20° | 5229.7 | 5242.7 | 5425.9 | 5333.8 | 5222.7 |
| 22.5° | 3816.2 | 3863.2 | 4080.4 | 3843.2 | 3756.1 |
| 25° | 2540.8 | 2636.9 | 2865.1 | 2569.8 | 2488.7 |
| 27.5° | 1562.7 | 1606.8 | 1838.0 | 1542.7 | 1498.6 |
| 30° | 972.1 | 950.0 | 1059.2 | 909.0 | 846.9 |
| 32.5° | 637.7 | 609.7 | 644.7 | 578.6 | 528.6 |
| 35° | 426.5 | 435.5 | 408.4 | 405.4 | 342.4 |
| 37.5° | 266.3 | 306.3 | 270.3 | 288.3 | 220.2 |
| 40° | 172.2 | 222.2 | 191.2 | 211.2 | 162.2 |
| 42.5° | 141.2 | 171.2 | 157.2 | 167.2 | 144.2 |
| 45° | 112.1 | 139.2 | 139.2 | 139.2 | 113.1 |
| 47.5° | 62.1 | 93.1 | 119.1 | 95.1 | 66.1 |
| 50° | 35.0 | 47.1 | 92.1 | 49.1 | 37.0 |
| 52.5° | 24.0 | 27.0 | 63.1 | 28.0 | 25.0 |
| 55° | 18.0 | 19.0 | 34.0 | 20.0 | 19.0 |
| 57.5° | 14.0 | 15.0 | 18.0 | 15.0 | 14.0 |
| 60° | 11.0 | 11.0 | 13.0 | 12.0 | 11.0 |
| 62.5° | 8.0 | 8.0 | 9.0 | 8.0 | 8.0 |
| 65° | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| 67.5° | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| 70° | 3.0 | 2.0 | 2.0 | 2.0 | 3.0 |
| 72.5° | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 75° | 0.0 | 0.0 | 1.0 | 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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