

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: P793754

Luminaire Tested: LER6D55D010-EC6DR3055659035-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793754
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-EC6DR3055659035-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5731.7 lumens
Efficiency: N/A
Efficacy: 98.5 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 (Ain): 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

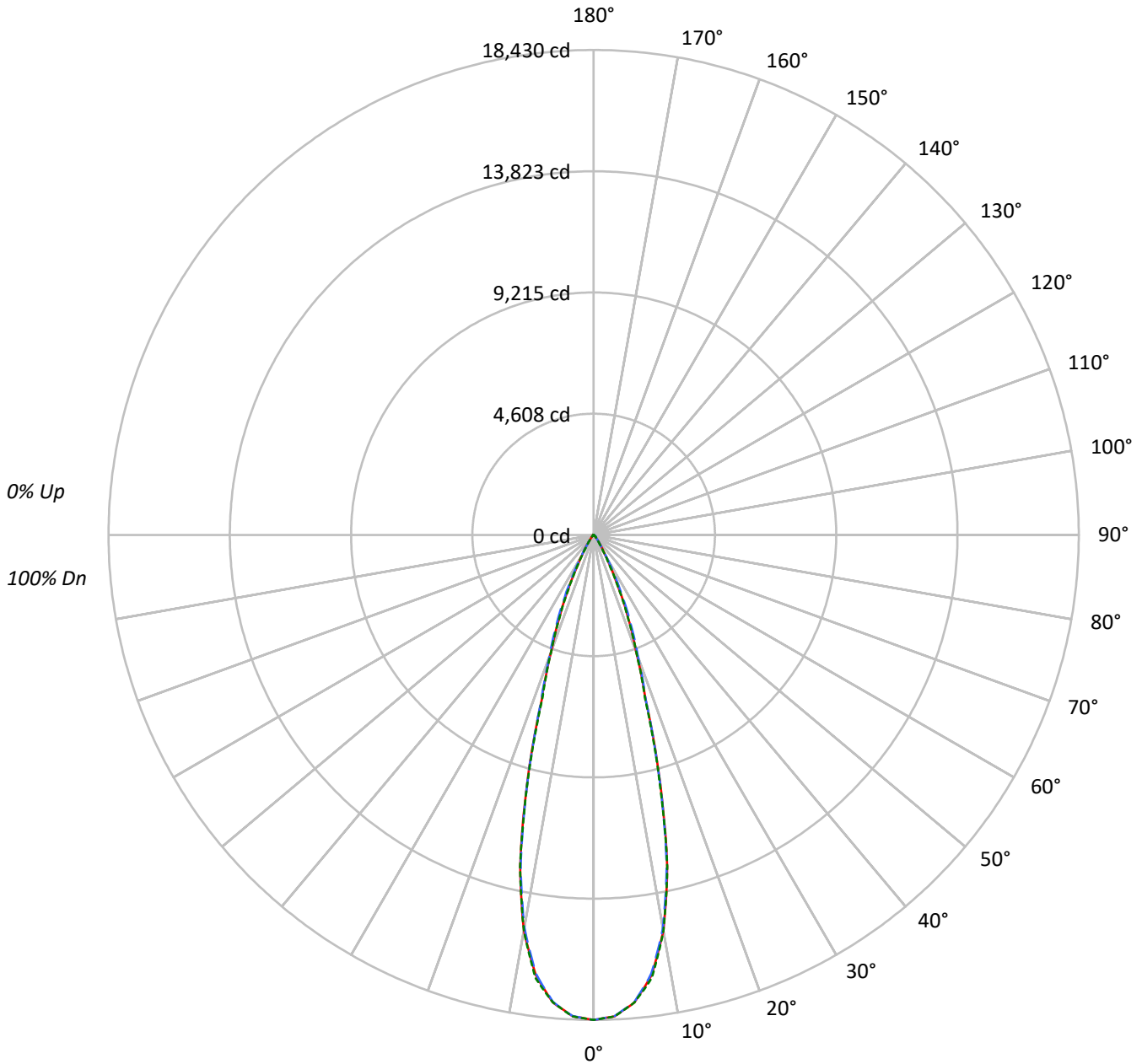


Downlight

TEST NUMBER: P793754

CATALOG NUMBER: LER6D55D010-EC6DR3055659035-6LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P793754

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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° | 1410710 | 1410710 | 1410710 |
| 5° | 1370212 | 1368614 | 1370282 |
| 10° | 1186810 | 1178439 | 1186530 |
| 15° | 774336 | 770176 | 766301 |
| 20° | 385041 | 399484 | 384528 |
| 25° | 193954 | 218716 | 189984 |
| 30° | 77655 | 84611 | 67658 |
| 35° | 36022 | 34499 | 28920 |
| 40° | 15548 | 17266 | 14648 |
| 45° | 10966 | 13618 | 11063 |
| 50° | 3775 | 9907 | 3989 |
| 55° | 2175 | 4110 | 2295 |
| 60° | 1531 | 1806 | 1531 |
| 65° | 978 | 978 | 978 |
| 70° | 604 | 403 | 604 |
| 75° | 0 | 266 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13618 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1620.7 | 28.3 |
| 10°-20° | 2610.1 | 45.5 |
| 20°-30° | 1127.9 | 19.7 |
| 30°-40° | 257.1 | 4.5 |
| 40°-50° | 88.3 | 1.5 |
| 50°-60° | 21.6 | 0.4 |
| 60°-70° | 5.6 | 0.1 |
| 70°-80° | 0.6 | 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° | 5358.6 | 93.5 |
| 0°-40° | 5615.7 | 98.0 |
| 0°-60° | 5725.5 | 99.9 |
| 0°-90° | 5731.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5731.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 18430 | 18430 | 18430 | 18430 | 18430 | |
| 5° | 17833 | 17816 | 17812 | 17849 | 17834 | 1622 |
| 15° | 9772 | 9654 | 9719 | 9687 | 9670 | 2616 |
| 25° | 2296 | 2383 | 2590 | 2323 | 2250 | 1099 |
| 35° | 386 | 394 | 369 | 366 | 310 | 261 |
| 45° | 101 | 126 | 126 | 126 | 102 | 72 |
| 55° | 16 | 17 | 31 | 18 | 17 | 16 |
| 65° | 5 | 5 | 5 | 5 | 5 | 5 |
| 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° | 18430.2 | 18430.2 | 18430.2 | 18430.2 | 18430.2 |
| 2.5° | 18308.0 | 18295.4 | 18302.6 | 18311.7 | 18315.3 |
| 5° | 17833.0 | 17815.8 | 17812.2 | 17849.3 | 17833.9 |
| 7.5° | 16874.7 | 16850.3 | 16813.2 | 16897.4 | 16976.1 |
| 10° | 15269.5 | 15242.4 | 15161.8 | 15201.7 | 15265.9 |
| 12.5° | 12899.7 | 12811.9 | 12810.1 | 12936.8 | 12919.6 |
| 15° | 9771.6 | 9654.0 | 9719.1 | 9687.4 | 9670.2 |
| 17.5° | 6571.1 | 6525.9 | 6612.7 | 6586.5 | 6473.4 |
| 20° | 4727.0 | 4738.8 | 4904.3 | 4821.1 | 4720.7 |
| 22.5° | 3449.3 | 3491.9 | 3688.2 | 3473.8 | 3395.0 |
| 25° | 2296.5 | 2383.4 | 2589.7 | 2322.8 | 2249.5 |
| 27.5° | 1412.5 | 1452.3 | 1661.3 | 1394.4 | 1354.6 |
| 30° | 878.6 | 858.7 | 957.3 | 821.6 | 765.5 |
| 32.5° | 576.4 | 551.1 | 582.7 | 523.0 | 477.8 |
| 35° | 385.5 | 393.6 | 369.2 | 366.5 | 309.5 |
| 37.5° | 240.7 | 276.9 | 244.3 | 260.6 | 199.1 |
| 40° | 155.6 | 200.9 | 172.8 | 190.9 | 146.6 |
| 42.5° | 127.6 | 154.7 | 142.1 | 151.1 | 130.3 |
| 45° | 101.3 | 125.8 | 125.8 | 125.8 | 102.2 |
| 47.5° | 56.1 | 84.2 | 107.7 | 86.0 | 59.7 |
| 50° | 31.7 | 42.5 | 83.2 | 44.3 | 33.5 |
| 52.5° | 21.7 | 24.4 | 57.0 | 25.3 | 22.6 |
| 55° | 16.3 | 17.2 | 30.8 | 18.1 | 17.2 |
| 57.5° | 12.7 | 13.6 | 16.3 | 13.6 | 12.7 |
| 60° | 10.0 | 10.0 | 11.8 | 10.9 | 10.0 |
| 62.5° | 7.2 | 7.2 | 8.1 | 7.2 | 7.2 |
| 65° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 67.5° | 2.7 | 3.6 | 3.6 | 3.6 | 3.6 |
| 70° | 2.7 | 1.8 | 1.8 | 1.8 | 2.7 |
| 72.5° | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 |
| 75° | 0.0 | 0.0 | 0.9 | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





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

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