

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: P790207

Luminaire Tested: LER6D20D010-EC6DR3020359040-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790207
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-EC6DR3020359040-6LBDDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2854.8 lumens
Efficiency: N/A
Efficacy: 123.6 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

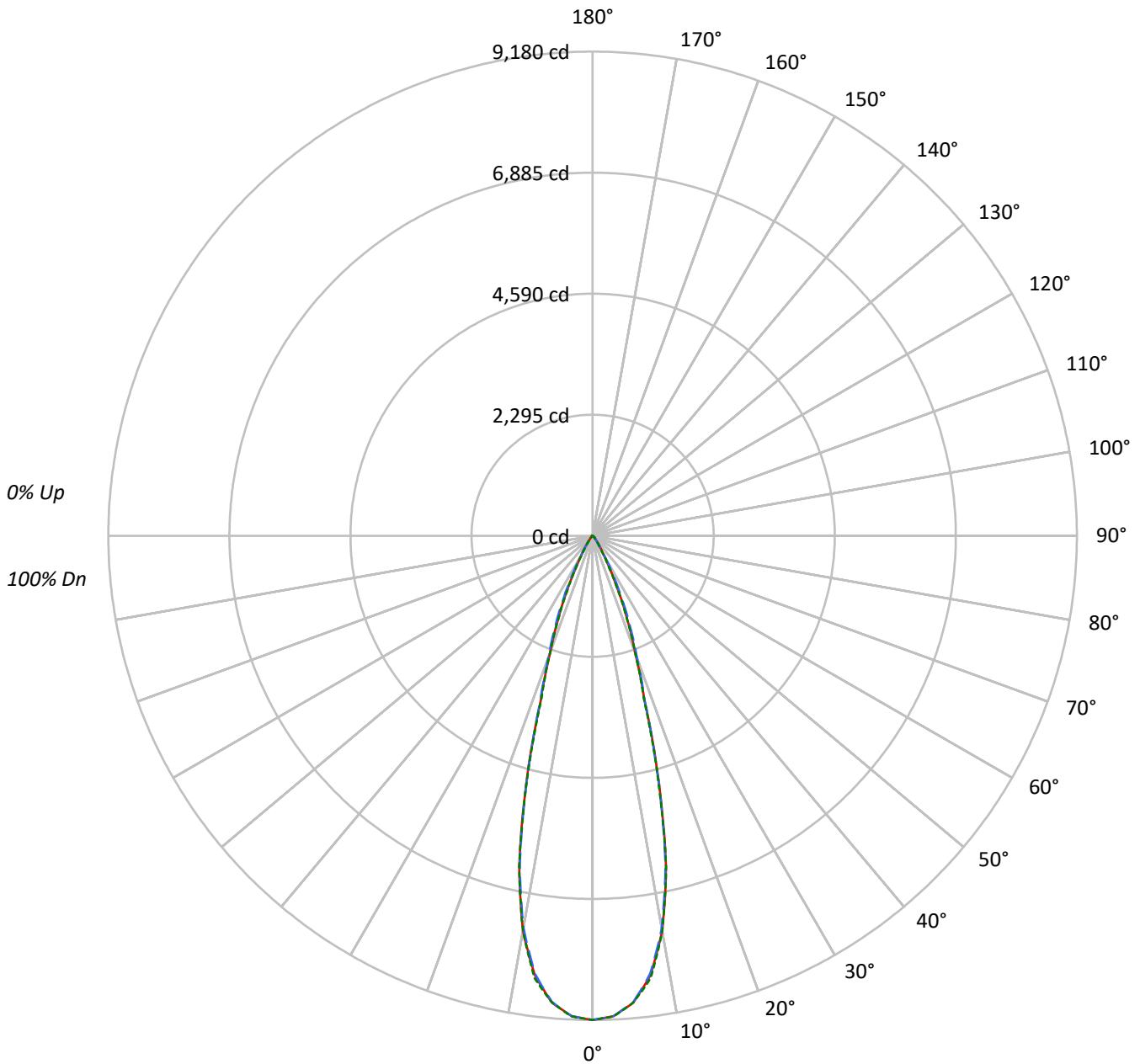


Downlight

TEST NUMBER: P790207

CATALOG NUMBER: LER6D20D010-EC6DR3020359040-6LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P790207

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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° | 702638 | 702638 | 702638 |
| 5° | 682463 | 681664 | 682501 |
| 10° | 591116 | 586950 | 590976 |
| 15° | 385670 | 383602 | 381677 |
| 20° | 191779 | 198972 | 191519 |
| 25° | 96601 | 108940 | 94625 |
| 30° | 38677 | 42142 | 33701 |
| 35° | 17941 | 17184 | 14399 |
| 40° | 7744 | 8603 | 7294 |
| 45° | 5467 | 6776 | 5510 |
| 50° | 1881 | 4942 | 1989 |
| 55° | 1081 | 2042 | 1148 |
| 60° | 765 | 903 | 765 |
| 65° | 489 | 489 | 489 |
| 70° | 313 | 201 | 313 |
| 75° | 0 | 148 | 0 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6776 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 807.2 | 28.3 |
| 10°-20° | 1300.0 | 45.5 |
| 20°-30° | 561.8 | 19.7 |
| 30°-40° | 128.0 | 4.5 |
| 40°-50° | 44.0 | 1.5 |
| 50°-60° | 10.8 | 0.4 |
| 60°-70° | 2.8 | 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° | 2669.0 | 93.5 |
| 0°-40° | 2797.0 | 98.0 |
| 0°-60° | 2851.7 | 99.9 |
| 0°-90° | 2854.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2854.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 9180 | 9180 | 9180 | 9180 | 9180 | |
| 5° | 8882 | 8874 | 8872 | 8890 | 8883 | 808 |
| 15° | 4867 | 4808 | 4841 | 4825 | 4816 | 1303 |
| 25° | 1144 | 1187 | 1290 | 1157 | 1120 | 548 |
| 35° | 192 | 196 | 184 | 182 | 154 | 130 |
| 45° | 50 | 63 | 63 | 63 | 51 | 36 |
| 55° | 8 | 9 | 15 | 9 | 9 | 8 |
| 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° | 9179.6 | 9179.6 | 9179.6 | 9179.6 | 9179.6 |
| 2.5° | 9118.7 | 9112.4 | 9116.0 | 9120.5 | 9122.3 |
| 5° | 8882.1 | 8873.5 | 8871.7 | 8890.2 | 8882.6 |
| 7.5° | 8404.8 | 8392.7 | 8374.2 | 8416.1 | 8455.3 |
| 10° | 7605.3 | 7591.8 | 7551.7 | 7571.5 | 7603.5 |
| 12.5° | 6425.0 | 6381.2 | 6380.3 | 6443.4 | 6434.9 |
| 15° | 4866.9 | 4808.4 | 4840.8 | 4825.0 | 4816.5 |
| 17.5° | 3272.9 | 3250.3 | 3293.6 | 3280.5 | 3224.2 |
| 20° | 2354.4 | 2360.2 | 2442.7 | 2401.2 | 2351.2 |
| 22.5° | 1718.0 | 1739.2 | 1837.0 | 1730.2 | 1691.0 |
| 25° | 1143.8 | 1187.1 | 1289.9 | 1156.9 | 1120.4 |
| 27.5° | 703.5 | 723.3 | 827.5 | 694.5 | 674.7 |
| 30° | 437.6 | 427.7 | 476.8 | 409.2 | 381.3 |
| 32.5° | 287.1 | 274.5 | 290.2 | 260.5 | 238.0 |
| 35° | 192.0 | 196.0 | 183.9 | 182.5 | 154.1 |
| 37.5° | 119.9 | 137.9 | 121.7 | 129.8 | 99.2 |
| 40° | 77.5 | 100.1 | 86.1 | 95.1 | 73.0 |
| 42.5° | 63.5 | 77.1 | 70.8 | 75.3 | 64.9 |
| 45° | 50.5 | 62.6 | 62.6 | 62.6 | 50.9 |
| 47.5° | 27.9 | 41.9 | 53.6 | 42.8 | 29.7 |
| 50° | 15.8 | 21.2 | 41.5 | 22.1 | 16.7 |
| 52.5° | 10.8 | 12.2 | 28.4 | 12.6 | 11.3 |
| 55° | 8.1 | 8.6 | 15.3 | 9.0 | 8.6 |
| 57.5° | 6.3 | 6.8 | 8.1 | 6.8 | 6.3 |
| 60° | 5.0 | 5.0 | 5.9 | 5.4 | 5.0 |
| 62.5° | 3.6 | 3.6 | 4.1 | 3.6 | 3.6 |
| 65° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 67.5° | 1.4 | 1.8 | 1.8 | 1.8 | 1.8 |
| 70° | 1.4 | 0.9 | 0.9 | 0.9 | 1.4 |
| 72.5° | 0.9 | 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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