

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P799941

Luminaire Tested: **LD6C60D010 EU6609050 6LBMDDWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P799941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C60D010 EU6609050 6LBMDDWH
Description: 6 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LBMDDW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

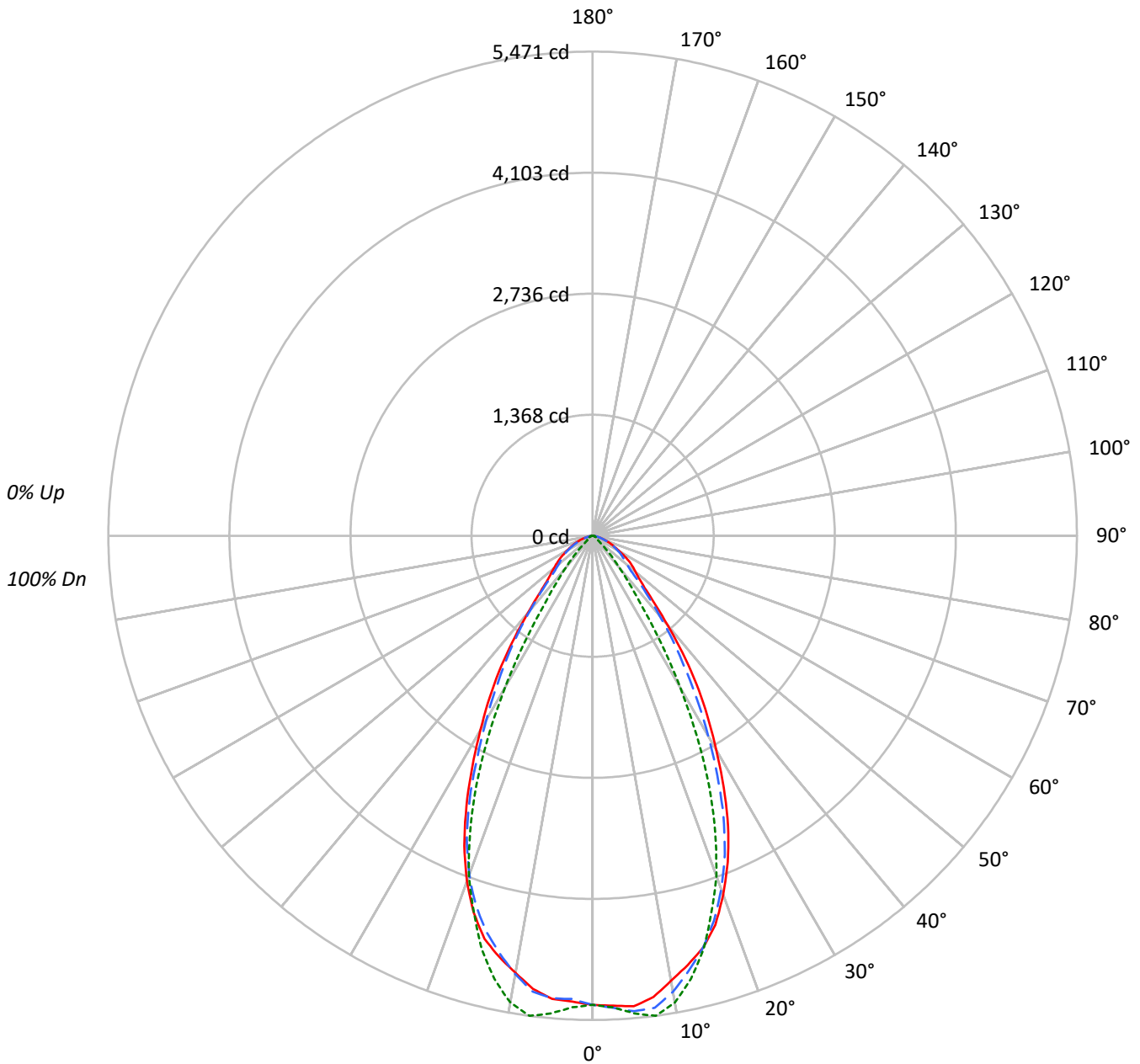
Lumens per Lamp: N/A
Luminaire Lumens: 5397.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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: 25 FT

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Luminous Intensity Polar Plot





TEST NUMBER: P799941

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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 | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | | | | | | | | | | | | | | | | |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 78 | 76 | | | | | | | | | | | | | | | | | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 70 | | | | | | | | | | | | | | | | | | | |
| 5 | 89 | 79 | 73 | 68 | 87 | 78 | 72 | 68 | 76 | 71 | 67 | 75 | 70 | 66 | 73 | 69 | 66 | 64 | | | | | | | | | | | | | | | | | | | |
| 6 | 84 | 74 | 67 | 62 | 82 | 73 | 67 | 62 | 71 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 7 | 79 | 69 | 62 | 58 | 78 | 68 | 62 | 58 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 55 | | | | | | | | | | | | | | | | | | | |
| 8 | 75 | 65 | 58 | 54 | 74 | 64 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 51 | | | | | | | | | | | | | | | | | | | |
| 9 | 71 | 61 | 55 | 50 | 70 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 50 | 58 | 53 | 50 | 48 | | | | | | | | | | | | | | | | | | | |
| 10 | 68 | 57 | 51 | 47 | 67 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 55 | 50 | 47 | 45 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 290618 | 290618 | 290618 |
| 5° | 293654 | 298106 | 289054 |
| 10° | 284141 | 298102 | 279192 |
| 15° | 273475 | 274548 | 267658 |
| 20° | 251695 | 238482 | 242256 |
| 25° | 219049 | 188055 | 204042 |
| 30° | 176666 | 124943 | 160278 |
| 35° | 136965 | 64420 | 120368 |
| 40° | 93976 | 33384 | 81045 |
| 45° | 64387 | 16723 | 56859 |
| 50° | 53585 | 7130 | 48757 |
| 55° | 48189 | 6184 | 43554 |
| 60° | 38133 | 5910 | 36368 |
| 65° | 31482 | 5241 | 31132 |
| 70° | 25501 | 4760 | 25501 |
| 75° | 18851 | 5147 | 19995 |
| 80° | 11081 | 4262 | 11933 |
| 85° | 8491 | 5095 | 8491 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 504.6 | 9.4 |
| 10°-20° | 1324.5 | 24.5 |
| 20°-30° | 1511.8 | 28.0 |
| 30°-40° | 1002.6 | 18.6 |
| 40°-50° | 483.6 | 9.0 |
| 50°-60° | 297.5 | 5.5 |
| 60°-70° | 180.0 | 3.3 |
| 70°-80° | 75.7 | 1.4 |
| 80°-90° | 16.7 | 0.3 |
| 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° | 3340.9 | 61.9 |
| 0°-40° | 4343.5 | 80.5 |
| 0°-60° | 5124.6 | 95.0 |
| 0°-90° | 5397.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5397.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 5301 | 5301 | 5301 | 5301 | 5301 | |
| 5° | 5336 | 5393 | 5417 | 5245 | 5253 | 501 |
| 15° | 4819 | 4819 | 4838 | 4633 | 4716 | 1343 |
| 25° | 3621 | 3500 | 3109 | 3290 | 3373 | 1642 |
| 35° | 2047 | 1804 | 963 | 1683 | 1799 | 1266 |
| 45° | 830 | 728 | 216 | 680 | 733 | 677 |
| 55° | 504 | 410 | 65 | 410 | 456 | 443 |
| 65° | 243 | 232 | 40 | 218 | 240 | 244 |
| 75° | 89 | 89 | 24 | 84 | 94 | 95 |
| 85° | 14 | 19 | 8 | 14 | 14 | 17 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799941

CATALOG NUMBER: LD6C60D010 EU6609050 6LBMDDWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5301.3 | 5301.3 | 5301.3 | 5301.3 | 5301.3 | 5301.3 | 5301.3 | 5301.3 | 5301.3 |
| 2.5° | 5314.8 | 5322.9 | 5339.0 | 5341.7 | 5333.6 | 5282.4 | 5239.3 | 5255.4 | 5268.9 |
| 5° | 5336.3 | 5352.5 | 5393.0 | 5430.7 | 5417.2 | 5330.9 | 5244.7 | 5242.0 | 5252.7 |
| 7.5° | 5258.1 | 5295.9 | 5379.5 | 5473.9 | 5471.2 | 5322.9 | 5196.1 | 5163.8 | 5163.8 |
| 10° | 5104.4 | 5139.5 | 5231.2 | 5357.9 | 5355.2 | 5169.2 | 5028.9 | 5012.8 | 5015.5 |
| 12.5° | 4966.9 | 4983.1 | 5028.9 | 5128.7 | 5128.7 | 4945.3 | 4837.5 | 4853.7 | 4875.2 |
| 15° | 4818.6 | 4829.4 | 4818.6 | 4851.0 | 4837.5 | 4686.5 | 4632.6 | 4683.8 | 4716.1 |
| 17.5° | 4608.3 | 4613.7 | 4557.1 | 4513.9 | 4462.7 | 4368.3 | 4381.8 | 4457.3 | 4465.4 |
| 20° | 4314.4 | 4349.4 | 4247.0 | 4136.4 | 4087.9 | 3998.9 | 4074.4 | 4158.0 | 4152.6 |
| 22.5° | 3990.8 | 4031.2 | 3899.1 | 3715.7 | 3616.0 | 3580.9 | 3715.7 | 3791.3 | 3788.6 |
| 25° | 3621.4 | 3651.0 | 3500.0 | 3243.9 | 3109.0 | 3103.6 | 3289.7 | 3367.9 | 3373.3 |
| 27.5° | 3206.1 | 3216.9 | 3047.0 | 2712.7 | 2545.5 | 2585.9 | 2820.5 | 2928.4 | 2941.9 |
| 30° | 2790.9 | 2785.5 | 2610.2 | 2194.9 | 1973.8 | 2084.4 | 2399.9 | 2518.5 | 2532.0 |
| 32.5° | 2410.7 | 2394.5 | 2194.9 | 1698.8 | 1434.5 | 1599.0 | 2014.3 | 2138.3 | 2159.9 |
| 35° | 2046.6 | 2019.7 | 1803.9 | 1256.6 | 962.6 | 1208.0 | 1682.6 | 1790.5 | 1798.6 |
| 37.5° | 1666.4 | 1652.9 | 1483.1 | 941.1 | 671.4 | 916.8 | 1372.5 | 1450.7 | 1442.6 |
| 40° | 1313.2 | 1313.2 | 1173.0 | 698.4 | 466.5 | 682.2 | 1086.7 | 1156.8 | 1132.5 |
| 42.5° | 1030.1 | 1043.5 | 924.9 | 515.0 | 331.7 | 506.9 | 860.2 | 924.9 | 897.9 |
| 45° | 830.5 | 830.5 | 728.0 | 382.9 | 215.7 | 377.5 | 679.5 | 738.8 | 733.4 |
| 47.5° | 703.8 | 693.0 | 590.5 | 280.4 | 118.6 | 283.1 | 571.7 | 644.5 | 641.8 |
| 50° | 628.3 | 612.1 | 506.9 | 221.1 | 83.6 | 234.6 | 501.5 | 569.0 | 571.7 |
| 52.5° | 569.0 | 544.7 | 455.7 | 196.8 | 72.8 | 204.9 | 455.7 | 509.6 | 509.6 |
| 55° | 504.2 | 490.8 | 409.9 | 175.3 | 64.7 | 183.4 | 409.9 | 458.4 | 455.7 |
| 57.5° | 426.0 | 423.3 | 366.7 | 159.1 | 59.3 | 161.8 | 366.7 | 396.4 | 385.6 |
| 60° | 347.8 | 358.6 | 318.2 | 142.9 | 53.9 | 145.6 | 312.8 | 337.1 | 331.7 |
| 62.5° | 291.2 | 304.7 | 277.7 | 126.7 | 45.8 | 129.4 | 264.3 | 288.5 | 283.1 |
| 65° | 242.7 | 253.5 | 231.9 | 107.9 | 40.4 | 107.9 | 218.4 | 240.0 | 240.0 |
| 67.5° | 199.5 | 207.6 | 191.5 | 89.0 | 35.1 | 89.0 | 178.0 | 196.8 | 199.5 |
| 70° | 159.1 | 164.5 | 151.0 | 70.1 | 29.7 | 72.8 | 140.2 | 159.1 | 159.1 |
| 72.5° | 124.0 | 126.7 | 118.6 | 56.6 | 27.0 | 56.6 | 107.9 | 124.0 | 124.0 |
| 75° | 89.0 | 94.4 | 89.0 | 43.1 | 24.3 | 43.1 | 83.6 | 91.7 | 94.4 |
| 77.5° | 51.2 | 64.7 | 64.7 | 35.1 | 18.9 | 32.4 | 59.3 | 62.0 | 62.0 |
| 80° | 35.1 | 40.4 | 45.8 | 24.3 | 13.5 | 24.3 | 37.8 | 40.4 | 37.8 |
| 82.5° | 24.3 | 27.0 | 27.0 | 16.2 | 10.8 | 16.2 | 24.3 | 27.0 | 24.3 |
| 85° | 13.5 | 18.9 | 18.9 | 13.5 | 8.1 | 10.8 | 13.5 | 16.2 | 13.5 |
| 87.5° | 8.1 | 10.8 | 13.5 | 10.8 | 8.1 | 8.1 | 8.1 | 8.1 | 5.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)