

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: P799739

Luminaire Tested: **LD6C45D010 EU6459035 6LBMDDWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P799739
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: LD6C45D010 EU6459035 6LBMDDWMW
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LBMDDW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

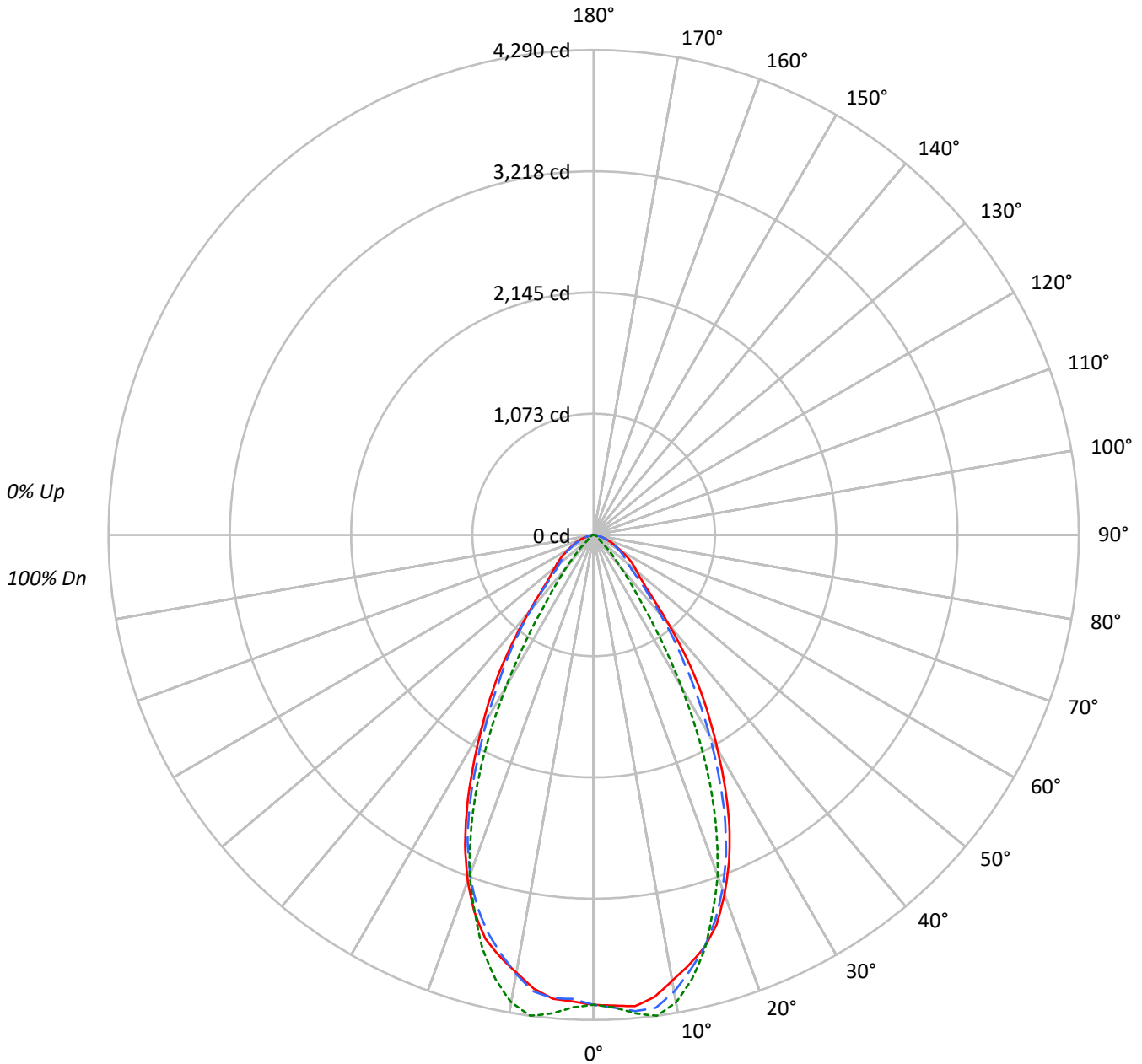
Lumens per Lamp: N/A
Luminaire Lumens: 4232.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 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° | 227882 | 227882 | 227882 |
| 5° | 230266 | 233760 | 226661 |
| 10° | 222808 | 233752 | 218923 |
| 15° | 214445 | 215285 | 209882 |
| 20° | 197365 | 187004 | 189962 |
| 25° | 171766 | 147462 | 159995 |
| 30° | 138528 | 97977 | 125678 |
| 35° | 107398 | 50514 | 94382 |
| 40° | 73688 | 26178 | 63555 |
| 45° | 50486 | 13118 | 44586 |
| 50° | 42020 | 5586 | 38233 |
| 55° | 37791 | 4846 | 34149 |
| 60° | 29910 | 4638 | 28517 |
| 65° | 24685 | 4112 | 24412 |
| 70° | 20003 | 3735 | 20003 |
| 75° | 14784 | 4024 | 15674 |
| 80° | 8682 | 3346 | 9345 |
| 85° | 6667 | 3963 | 6667 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 395.7 | 9.4 |
| 10°-20° | 1038.6 | 24.5 |
| 20°-30° | 1185.5 | 28.0 |
| 30°-40° | 786.2 | 18.6 |
| 40°-50° | 379.2 | 9.0 |
| 50°-60° | 233.3 | 5.5 |
| 60°-70° | 141.1 | 3.3 |
| 70°-80° | 59.4 | 1.4 |
| 80°-90° | 13.1 | 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° | 2619.8 | 61.9 |
| 0°-40° | 3405.9 | 80.5 |
| 0°-60° | 4018.4 | 95.0 |
| 0°-90° | 4232.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4232.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4157 | 4157 | 4157 | 4157 | 4157 | |
| 5° | 4184 | 4229 | 4248 | 4112 | 4119 | 393 |
| 15° | 3778 | 3778 | 3793 | 3633 | 3698 | 1053 |
| 25° | 2840 | 2744 | 2438 | 2580 | 2645 | 1288 |
| 35° | 1605 | 1414 | 755 | 1319 | 1410 | 993 |
| 45° | 651 | 571 | 169 | 533 | 575 | 531 |
| 55° | 395 | 321 | 51 | 321 | 357 | 348 |
| 65° | 190 | 182 | 32 | 171 | 188 | 191 |
| 75° | 70 | 70 | 19 | 66 | 74 | 75 |
| 85° | 11 | 15 | 6 | 11 | 11 | 14 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P799739

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4156.9 | 4156.9 | 4156.9 | 4156.9 | 4156.9 | 4156.9 | 4156.9 | 4156.9 | 4156.9 |
| 2.5° | 4167.5 | 4173.9 | 4186.5 | 4188.7 | 4182.3 | 4142.1 | 4108.3 | 4121.0 | 4131.6 |
| 5° | 4184.4 | 4197.1 | 4228.8 | 4258.4 | 4247.9 | 4180.2 | 4112.5 | 4110.4 | 4118.9 |
| 7.5° | 4123.1 | 4152.7 | 4218.3 | 4292.3 | 4290.1 | 4173.9 | 4074.5 | 4049.1 | 4049.1 |
| 10° | 4002.6 | 4030.1 | 4102.0 | 4201.3 | 4199.2 | 4053.3 | 3943.4 | 3930.7 | 3932.8 |
| 12.5° | 3894.8 | 3907.4 | 3943.4 | 4021.6 | 4021.6 | 3877.8 | 3793.3 | 3805.9 | 3822.9 |
| 15° | 3778.5 | 3786.9 | 3778.5 | 3803.8 | 3793.3 | 3674.9 | 3632.6 | 3672.7 | 3698.1 |
| 17.5° | 3613.5 | 3617.8 | 3573.4 | 3539.5 | 3499.4 | 3425.4 | 3435.9 | 3495.1 | 3501.5 |
| 20° | 3383.1 | 3410.6 | 3330.2 | 3243.5 | 3205.5 | 3135.7 | 3194.9 | 3260.4 | 3256.2 |
| 22.5° | 3129.3 | 3161.1 | 3057.4 | 2913.7 | 2835.4 | 2807.9 | 2913.7 | 2972.9 | 2970.8 |
| 25° | 2839.7 | 2862.9 | 2744.5 | 2543.6 | 2437.9 | 2433.7 | 2579.6 | 2640.9 | 2645.1 |
| 27.5° | 2514.0 | 2522.5 | 2389.3 | 2127.1 | 1996.0 | 2027.7 | 2211.7 | 2296.3 | 2306.8 |
| 30° | 2188.4 | 2184.2 | 2046.8 | 1721.1 | 1547.8 | 1634.4 | 1881.8 | 1974.9 | 1985.4 |
| 32.5° | 1890.3 | 1877.6 | 1721.1 | 1332.1 | 1124.9 | 1253.8 | 1579.5 | 1676.7 | 1693.6 |
| 35° | 1604.8 | 1583.7 | 1414.5 | 985.3 | 754.8 | 947.3 | 1319.4 | 1404.0 | 1410.3 |
| 37.5° | 1306.7 | 1296.1 | 1162.9 | 737.9 | 526.5 | 718.9 | 1076.2 | 1137.6 | 1131.2 |
| 40° | 1029.7 | 1029.7 | 919.8 | 547.6 | 365.8 | 534.9 | 852.1 | 907.1 | 888.1 |
| 42.5° | 807.7 | 818.3 | 725.2 | 403.9 | 260.1 | 397.5 | 674.5 | 725.2 | 704.1 |
| 45° | 651.2 | 651.2 | 570.9 | 300.2 | 169.2 | 296.0 | 532.8 | 579.3 | 575.1 |
| 47.5° | 551.9 | 543.4 | 463.1 | 219.9 | 93.0 | 222.0 | 448.3 | 505.3 | 503.2 |
| 50° | 492.7 | 480.0 | 397.5 | 173.4 | 65.5 | 184.0 | 393.3 | 446.1 | 448.3 |
| 52.5° | 446.1 | 427.1 | 357.3 | 154.4 | 57.1 | 160.7 | 357.3 | 399.6 | 399.6 |
| 55° | 395.4 | 384.8 | 321.4 | 137.4 | 50.7 | 143.8 | 321.4 | 359.5 | 357.3 |
| 57.5° | 334.1 | 332.0 | 287.6 | 124.8 | 46.5 | 126.9 | 287.6 | 310.8 | 302.4 |
| 60° | 272.8 | 281.2 | 249.5 | 112.1 | 42.3 | 114.2 | 245.3 | 264.3 | 260.1 |
| 62.5° | 228.4 | 238.9 | 217.8 | 99.4 | 35.9 | 101.5 | 207.2 | 226.2 | 222.0 |
| 65° | 190.3 | 198.8 | 181.8 | 84.6 | 31.7 | 84.6 | 171.3 | 188.2 | 188.2 |
| 67.5° | 156.5 | 162.8 | 150.1 | 69.8 | 27.5 | 69.8 | 139.6 | 154.4 | 156.5 |
| 70° | 124.8 | 129.0 | 118.4 | 55.0 | 23.3 | 57.1 | 109.9 | 124.8 | 124.8 |
| 72.5° | 97.3 | 99.4 | 93.0 | 44.4 | 21.1 | 44.4 | 84.6 | 97.3 | 97.3 |
| 75° | 69.8 | 74.0 | 69.8 | 33.8 | 19.0 | 33.8 | 65.5 | 71.9 | 74.0 |
| 77.5° | 40.2 | 50.7 | 50.7 | 27.5 | 14.8 | 25.4 | 46.5 | 48.6 | 48.6 |
| 80° | 27.5 | 31.7 | 35.9 | 19.0 | 10.6 | 19.0 | 29.6 | 31.7 | 29.6 |
| 82.5° | 19.0 | 21.1 | 21.1 | 12.7 | 8.5 | 12.7 | 19.0 | 21.1 | 19.0 |
| 85° | 10.6 | 14.8 | 14.8 | 10.6 | 6.3 | 8.5 | 10.6 | 12.7 | 10.6 |
| 87.5° | 6.3 | 8.5 | 10.6 | 8.5 | 6.3 | 6.3 | 6.3 | 6.3 | 4.2 |
| 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)