

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: P859256

Luminaire Tested: **LD4C60D010 EU4609050 4LBMDSWWMH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859256
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C60D010 EU4609050 4LBMDSWWMH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

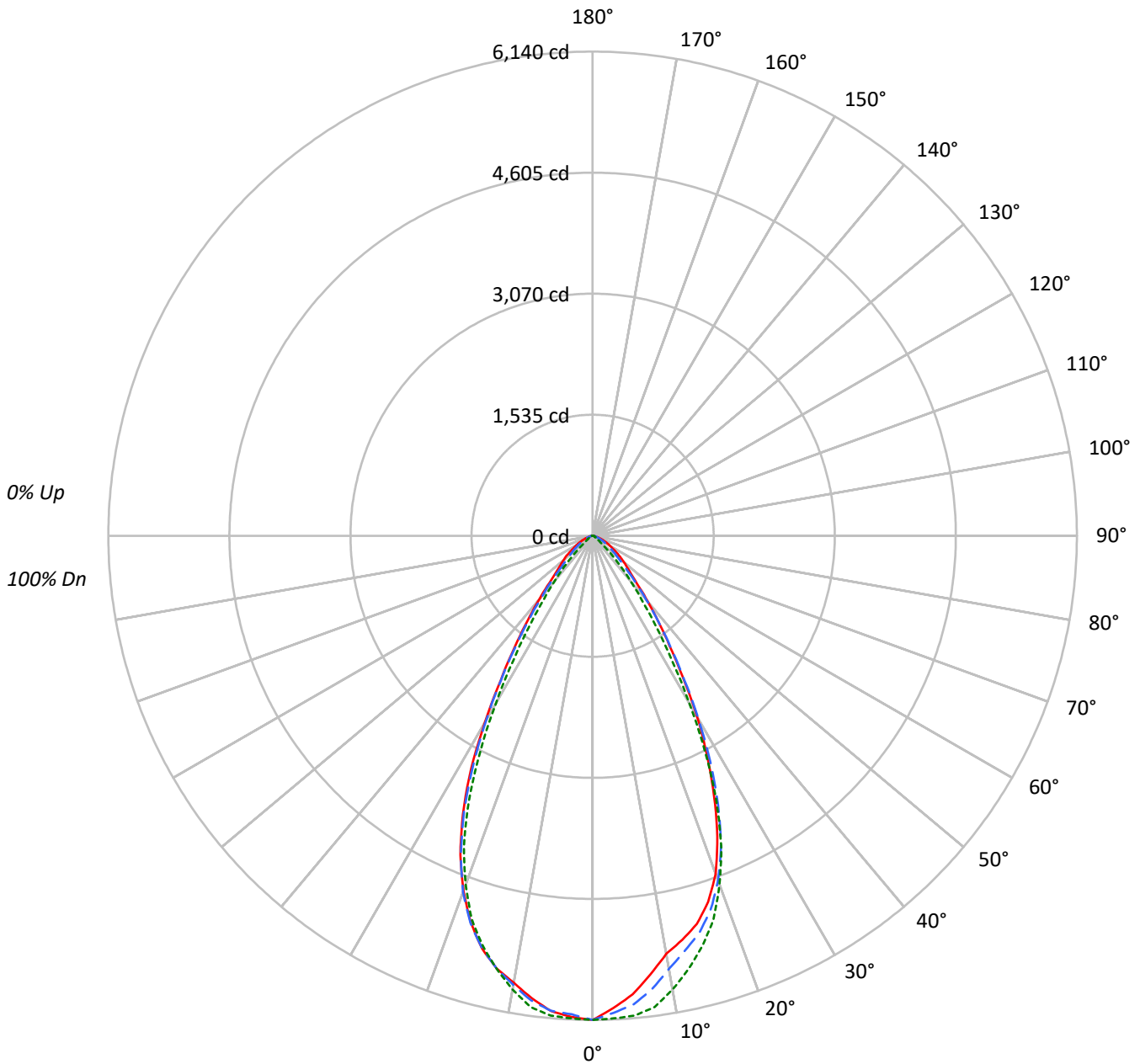
Lumens per Lamp: N/A
Luminaire Lumens: 5590.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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





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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 | 100 | 100 | 100 |
| 1 | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 95 | 94 | 92 | 92 | 92 | 92 |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 93 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 | 85 | 85 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 85 | 83 | 80 | 78 | 78 | 78 | 78 |
| 4 | 96 | 88 | 82 | 77 | 94 | 86 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 72 | 72 | 72 | 72 |
| 5 | 91 | 82 | 75 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 69 | 67 | 67 | 67 | 67 |
| 6 | 86 | 76 | 70 | 66 | 84 | 76 | 70 | 65 | 74 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 64 | 62 | 62 | 62 | 62 |
| 7 | 81 | 72 | 65 | 61 | 80 | 71 | 65 | 61 | 70 | 64 | 60 | 68 | 64 | 60 | 67 | 63 | 60 | 58 | 58 | 58 | 58 |
| 8 | 77 | 67 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 55 | 55 | 55 | 55 |
| 9 | 74 | 63 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 | 51 | 51 | 51 |
| 10 | 70 | 60 | 54 | 50 | 69 | 60 | 54 | 50 | 59 | 53 | 50 | 58 | 53 | 50 | 57 | 53 | 49 | 48 | 48 | 48 | 48 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 754382 | 754382 | 754382 |
| 5° | 719847 | 753169 | 746152 |
| 10° | 671385 | 728757 | 718116 |
| 15° | 648324 | 684509 | 689330 |
| 20° | 596361 | 614965 | 626117 |
| 25° | 494283 | 503284 | 527711 |
| 30° | 376011 | 347767 | 386778 |
| 35° | 254585 | 208362 | 257434 |
| 40° | 173380 | 119398 | 168056 |
| 45° | 120281 | 60132 | 113696 |
| 50° | 97876 | 24464 | 91530 |
| 55° | 79228 | 15229 | 72117 |
| 60° | 62926 | 11647 | 57078 |
| 65° | 49622 | 9651 | 44099 |
| 70° | 37465 | 8513 | 34052 |
| 75° | 27009 | 6740 | 24778 |
| 80° | 20163 | 6721 | 16767 |
| 85° | 13391 | 6625 | 13391 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 564.6 | 10.1 |
| 10°-20° | 1483.4 | 26.5 |
| 20°-30° | 1701.9 | 30.4 |
| 30°-40° | 1033.9 | 18.5 |
| 40°-50° | 443.1 | 7.9 |
| 50°-60° | 212.6 | 3.8 |
| 60°-70° | 103.4 | 1.8 |
| 70°-80° | 38.4 | 0.7 |
| 80°-90° | 8.8 | 0.2 |
| 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° | 3749.9 | 67.1 |
| 0°-40° | 4783.8 | 85.6 |
| 0°-60° | 5439.5 | 97.3 |
| 0°-90° | 5590.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5590.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 6140 | 6140 | 6140 | 6140 | 6140 | |
| 5° | 5837 | 5965 | 6107 | 6046 | 6050 | 542 |
| 15° | 5097 | 5216 | 5382 | 5415 | 5420 | 1419 |
| 25° | 3646 | 3765 | 3713 | 3855 | 3893 | 1654 |
| 35° | 1698 | 1721 | 1389 | 1679 | 1716 | 1088 |
| 45° | 692 | 616 | 346 | 555 | 654 | 562 |
| 55° | 370 | 275 | 71 | 247 | 337 | 334 |
| 65° | 171 | 114 | 33 | 104 | 152 | 173 |
| 75° | 57 | 38 | 14 | 33 | 52 | 62 |
| 85° | 10 | 10 | 5 | 5 | 10 | 13 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P859256

CATALOG NUMBER: LD4C60D010 EU4609050 4LBMDSWWMH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6140.5 | 6140.5 | 6140.5 | 6140.5 | 6140.5 | 6140.5 | 6140.5 | 6140.5 | 6140.5 |
| 2.5° | 5993.5 | 6059.9 | 6055.2 | 6112.1 | 6126.3 | 6112.1 | 6074.1 | 6112.1 | 6107.3 |
| 5° | 5837.1 | 5912.9 | 5965.1 | 6059.9 | 6107.3 | 6097.9 | 6045.7 | 6055.2 | 6050.4 |
| 7.5° | 5609.5 | 5704.3 | 5794.4 | 5936.6 | 6026.7 | 6022.0 | 5946.1 | 5931.9 | 5912.9 |
| 10° | 5381.9 | 5472.0 | 5576.3 | 5723.3 | 5841.8 | 5860.8 | 5784.9 | 5765.9 | 5756.5 |
| 12.5° | 5249.1 | 5320.2 | 5391.3 | 5519.4 | 5623.7 | 5661.6 | 5618.9 | 5623.7 | 5618.9 |
| 15° | 5097.4 | 5168.5 | 5215.9 | 5310.7 | 5381.9 | 5434.0 | 5415.0 | 5443.5 | 5419.8 |
| 17.5° | 4869.8 | 4955.1 | 4974.1 | 5045.2 | 5097.4 | 5130.5 | 5149.5 | 5178.0 | 5140.0 |
| 20° | 4561.5 | 4627.9 | 4651.6 | 4680.1 | 4703.8 | 4746.5 | 4803.4 | 4831.8 | 4789.1 |
| 22.5° | 4130.0 | 4258.1 | 4253.3 | 4239.1 | 4262.8 | 4277.0 | 4367.1 | 4414.5 | 4381.4 |
| 25° | 3646.4 | 3779.2 | 3764.9 | 3708.0 | 3712.8 | 3741.2 | 3855.0 | 3916.7 | 3893.0 |
| 27.5° | 3139.0 | 3262.3 | 3229.1 | 3120.1 | 3091.6 | 3134.3 | 3281.3 | 3352.4 | 3338.2 |
| 30° | 2650.6 | 2731.2 | 2679.1 | 2484.7 | 2451.5 | 2503.6 | 2693.3 | 2764.4 | 2726.5 |
| 32.5° | 2124.3 | 2185.9 | 2162.2 | 1925.1 | 1868.2 | 1920.4 | 2143.3 | 2209.6 | 2167.0 |
| 35° | 1697.5 | 1754.4 | 1721.2 | 1441.5 | 1389.3 | 1446.2 | 1678.6 | 1754.4 | 1716.5 |
| 37.5° | 1360.9 | 1403.6 | 1360.9 | 1062.1 | 1014.7 | 1071.6 | 1294.5 | 1394.1 | 1346.6 |
| 40° | 1081.1 | 1114.3 | 1057.4 | 782.4 | 744.5 | 772.9 | 981.5 | 1081.1 | 1047.9 |
| 42.5° | 853.5 | 877.2 | 815.6 | 573.7 | 531.1 | 569.0 | 739.7 | 829.8 | 810.8 |
| 45° | 692.3 | 692.3 | 616.4 | 398.3 | 346.1 | 384.1 | 554.8 | 649.6 | 654.4 |
| 47.5° | 592.7 | 578.5 | 483.7 | 265.5 | 199.2 | 251.3 | 441.0 | 540.6 | 554.8 |
| 50° | 512.1 | 493.1 | 398.3 | 194.4 | 128.0 | 180.2 | 365.1 | 464.7 | 478.9 |
| 52.5° | 441.0 | 426.8 | 331.9 | 151.7 | 90.1 | 137.5 | 308.2 | 403.0 | 417.3 |
| 55° | 369.9 | 360.4 | 275.0 | 118.5 | 71.1 | 104.3 | 246.6 | 327.2 | 336.7 |
| 57.5° | 303.5 | 289.2 | 222.9 | 99.6 | 56.9 | 85.4 | 203.9 | 270.3 | 279.8 |
| 60° | 256.1 | 241.8 | 180.2 | 80.6 | 47.4 | 66.4 | 166.0 | 222.9 | 232.3 |
| 62.5° | 213.4 | 199.2 | 147.0 | 66.4 | 37.9 | 56.9 | 132.8 | 180.2 | 189.7 |
| 65° | 170.7 | 161.2 | 113.8 | 52.2 | 33.2 | 42.7 | 104.3 | 142.3 | 151.7 |
| 67.5° | 137.5 | 128.0 | 90.1 | 42.7 | 28.5 | 33.2 | 80.6 | 113.8 | 123.3 |
| 70° | 104.3 | 94.8 | 66.4 | 33.2 | 23.7 | 28.5 | 61.6 | 85.4 | 94.8 |
| 72.5° | 75.9 | 71.1 | 52.2 | 28.5 | 19.0 | 23.7 | 42.7 | 61.6 | 71.1 |
| 75° | 56.9 | 52.2 | 37.9 | 19.0 | 14.2 | 19.0 | 33.2 | 47.4 | 52.2 |
| 77.5° | 37.9 | 37.9 | 28.5 | 14.2 | 14.2 | 14.2 | 23.7 | 33.2 | 33.2 |
| 80° | 28.5 | 23.7 | 19.0 | 9.5 | 9.5 | 9.5 | 14.2 | 23.7 | 23.7 |
| 82.5° | 19.0 | 14.2 | 14.2 | 9.5 | 9.5 | 9.5 | 9.5 | 14.2 | 14.2 |
| 85° | 9.5 | 9.5 | 9.5 | 4.7 | 4.7 | 4.7 | 4.7 | 9.5 | 9.5 |
| 87.5° | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 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)