

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: P859381

Luminaire Tested: **LD4C65D010 EU4659040 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859381
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: LD4C65D010 EU4659040 4LBMDSWGPH
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

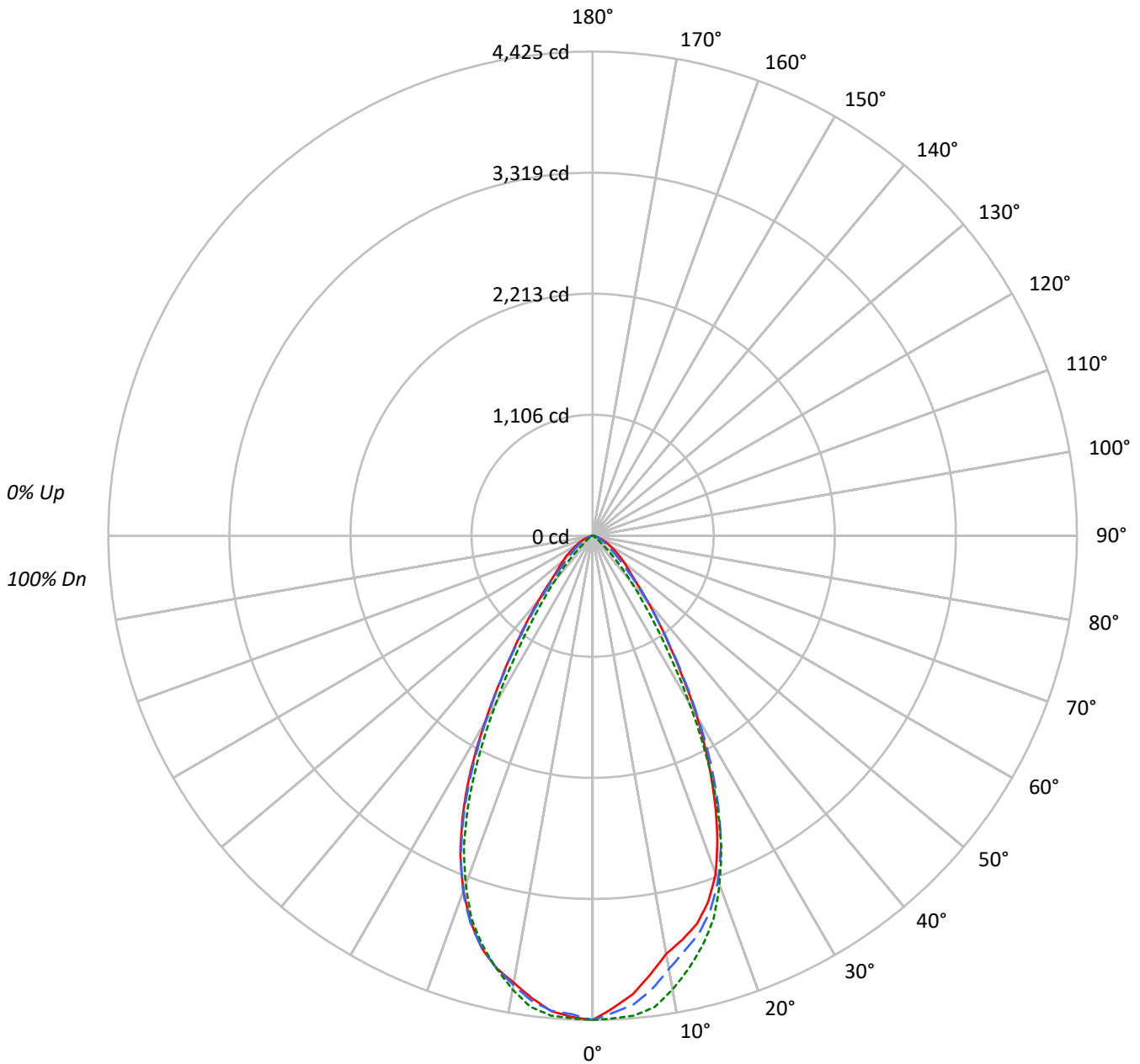
Lumens per Lamp: N/A
Luminaire Lumens: 4028.0 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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: P859381

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 543590 | 543590 | 543590 |
| 5° | 518696 | 542719 | 537663 |
| 10° | 483775 | 525117 | 517445 |
| 15° | 467159 | 493232 | 496717 |
| 20° | 429723 | 443123 | 451164 |
| 25° | 356168 | 362647 | 380256 |
| 30° | 270951 | 250594 | 278696 |
| 35° | 183451 | 150141 | 185506 |
| 40° | 124931 | 86025 | 121098 |
| 45° | 86662 | 43331 | 81919 |
| 50° | 70526 | 17641 | 65958 |
| 55° | 57081 | 10988 | 51962 |
| 60° | 45333 | 8403 | 41131 |
| 65° | 35756 | 6948 | 31773 |
| 70° | 27012 | 6142 | 24533 |
| 75° | 19461 | 4889 | 17848 |
| 80° | 14503 | 4811 | 12098 |
| 85° | 9585 | 4793 | 9585 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 406.8 | 10.1 |
| 10°-20° | 1068.9 | 26.5 |
| 20°-30° | 1226.4 | 30.4 |
| 30°-40° | 745.0 | 18.5 |
| 40°-50° | 319.3 | 7.9 |
| 50°-60° | 153.2 | 3.8 |
| 60°-70° | 74.5 | 1.8 |
| 70°-80° | 27.6 | 0.7 |
| 80°-90° | 6.4 | 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° | 2702.1 | 67.1 |
| 0°-40° | 3447.1 | 85.6 |
| 0°-60° | 3919.5 | 97.3 |
| 0°-90° | 4028.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4028.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4425 | 4425 | 4425 | 4425 | 4425 | |
| 5° | 4206 | 4298 | 4401 | 4356 | 4360 | 391 |
| 15° | 3673 | 3758 | 3878 | 3902 | 3905 | 1023 |
| 25° | 2628 | 2713 | 2675 | 2778 | 2805 | 1192 |
| 35° | 1223 | 1240 | 1001 | 1210 | 1237 | 784 |
| 45° | 499 | 444 | 249 | 400 | 472 | 405 |
| 55° | 266 | 198 | 51 | 178 | 243 | 241 |
| 65° | 123 | 82 | 24 | 75 | 109 | 125 |
| 75° | 41 | 27 | 10 | 24 | 38 | 45 |
| 85° | 7 | 7 | 3 | 3 | 7 | 9 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P859381

CATALOG NUMBER: LD4C65D010 EU4659040 4LBMDSWGPB

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 |
| 2.5° | 4318.8 | 4366.6 | 4363.2 | 4404.2 | 4414.4 | 4404.2 | 4376.9 | 4404.2 | 4400.8 |
| 5° | 4206.0 | 4260.7 | 4298.3 | 4366.6 | 4400.8 | 4393.9 | 4356.4 | 4363.2 | 4359.8 |
| 7.5° | 4042.0 | 4110.4 | 4175.3 | 4277.8 | 4342.7 | 4339.3 | 4284.6 | 4274.4 | 4260.7 |
| 10° | 3878.0 | 3942.9 | 4018.1 | 4124.0 | 4209.4 | 4223.1 | 4168.4 | 4154.8 | 4147.9 |
| 12.5° | 3782.3 | 3833.6 | 3884.9 | 3977.1 | 4052.3 | 4079.6 | 4048.9 | 4052.3 | 4048.9 |
| 15° | 3673.0 | 3724.3 | 3758.4 | 3826.8 | 3878.0 | 3915.6 | 3901.9 | 3922.4 | 3905.4 |
| 17.5° | 3509.0 | 3570.5 | 3584.2 | 3635.4 | 3673.0 | 3696.9 | 3710.6 | 3731.1 | 3703.8 |
| 20° | 3286.9 | 3334.8 | 3351.8 | 3372.3 | 3389.4 | 3420.2 | 3461.2 | 3481.7 | 3450.9 |
| 22.5° | 2976.0 | 3068.2 | 3064.8 | 3054.6 | 3071.7 | 3081.9 | 3146.8 | 3181.0 | 3157.1 |
| 25° | 2627.5 | 2723.2 | 2712.9 | 2671.9 | 2675.3 | 2695.8 | 2777.8 | 2822.2 | 2805.2 |
| 27.5° | 2261.9 | 2350.7 | 2326.8 | 2248.2 | 2227.7 | 2258.5 | 2364.4 | 2415.6 | 2405.4 |
| 30° | 1910.0 | 1968.1 | 1930.5 | 1790.4 | 1766.5 | 1804.0 | 1940.7 | 1992.0 | 1964.6 |
| 32.5° | 1530.7 | 1575.1 | 1558.0 | 1387.2 | 1346.2 | 1383.8 | 1544.4 | 1592.2 | 1561.5 |
| 35° | 1223.2 | 1264.2 | 1240.3 | 1038.7 | 1001.1 | 1042.1 | 1209.5 | 1264.2 | 1236.9 |
| 37.5° | 980.6 | 1011.4 | 980.6 | 765.4 | 731.2 | 772.2 | 932.8 | 1004.5 | 970.4 |
| 40° | 779.0 | 802.9 | 761.9 | 563.8 | 536.4 | 556.9 | 707.3 | 779.0 | 755.1 |
| 42.5° | 615.0 | 632.1 | 587.7 | 413.4 | 382.7 | 410.0 | 533.0 | 597.9 | 584.3 |
| 45° | 498.8 | 498.8 | 444.2 | 287.0 | 249.4 | 276.8 | 399.8 | 468.1 | 471.5 |
| 47.5° | 427.1 | 416.8 | 348.5 | 191.3 | 143.5 | 181.1 | 317.8 | 389.5 | 399.8 |
| 50° | 369.0 | 355.3 | 287.0 | 140.1 | 92.3 | 129.8 | 263.1 | 334.8 | 345.1 |
| 52.5° | 317.8 | 307.5 | 239.2 | 109.3 | 64.9 | 99.1 | 222.1 | 290.4 | 300.7 |
| 55° | 266.5 | 259.7 | 198.2 | 85.4 | 51.3 | 75.2 | 177.7 | 235.8 | 242.6 |
| 57.5° | 218.7 | 208.4 | 160.6 | 71.8 | 41.0 | 61.5 | 146.9 | 194.8 | 201.6 |
| 60° | 184.5 | 174.3 | 129.8 | 58.1 | 34.2 | 47.8 | 119.6 | 160.6 | 167.4 |
| 62.5° | 153.8 | 143.5 | 105.9 | 47.8 | 27.3 | 41.0 | 95.7 | 129.8 | 136.7 |
| 65° | 123.0 | 116.2 | 82.0 | 37.6 | 23.9 | 30.8 | 75.2 | 102.5 | 109.3 |
| 67.5° | 99.1 | 92.3 | 64.9 | 30.8 | 20.5 | 23.9 | 58.1 | 82.0 | 88.8 |
| 70° | 75.2 | 68.3 | 47.8 | 23.9 | 17.1 | 20.5 | 44.4 | 61.5 | 68.3 |
| 72.5° | 54.7 | 51.3 | 37.6 | 20.5 | 13.7 | 17.1 | 30.8 | 44.4 | 51.3 |
| 75° | 41.0 | 37.6 | 27.3 | 13.7 | 10.3 | 13.7 | 23.9 | 34.2 | 37.6 |
| 77.5° | 27.3 | 27.3 | 20.5 | 10.3 | 10.3 | 10.3 | 17.1 | 23.9 | 23.9 |
| 80° | 20.5 | 17.1 | 13.7 | 6.8 | 6.8 | 6.8 | 10.3 | 17.1 | 17.1 |
| 82.5° | 13.7 | 10.3 | 10.3 | 6.8 | 6.8 | 6.8 | 6.8 | 10.3 | 10.3 |
| 85° | 6.8 | 6.8 | 6.8 | 3.4 | 3.4 | 3.4 | 3.4 | 6.8 | 6.8 |
| 87.5° | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 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)