

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: P799548

Luminaire Tested: **LD6C30D010 EU6309030 6LBMDDWWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799548  
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: LD6C30D010 EU6309030 6LBMDDWWH  
Description: 6 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

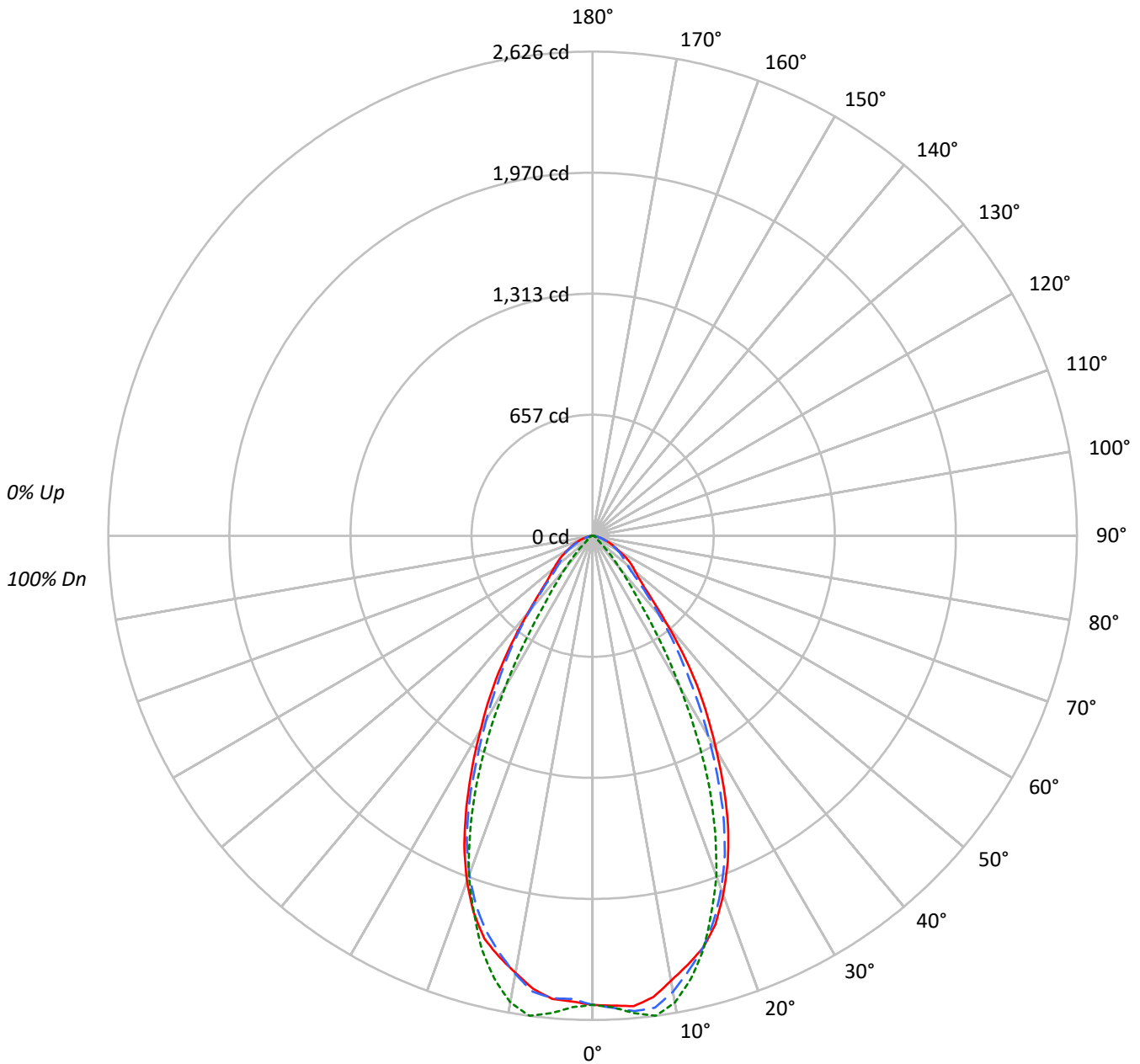
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2590.0 lumens  
Efficiency: N/A  
Efficacy: 82.0 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): 31.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°  | 139468 | 139468 | 139468 |
| 5°  | 140925 | 143060 | 138719 |
| 10° | 136359 | 143056 | 133982 |
| 15° | 131238 | 131754 | 128451 |
| 20° | 120784 | 114448 | 116257 |
| 25° | 105121 | 90247  | 97917  |
| 30° | 84779  | 59959  | 76917  |
| 35° | 65732  | 30918  | 57761  |
| 40° | 45099  | 16023  | 38894  |
| 45° | 30902  | 8024   | 27290  |
| 50° | 25713  | 3420   | 23394  |
| 55° | 23129  | 2972   | 20902  |
| 60° | 18299  | 2840   | 17455  |
| 65° | 15112  | 2516   | 14943  |
| 70° | 12230  | 2276   | 12230  |
| 75° | 9044   | 2457   | 9595   |
| 80° | 5304   | 2052   | 5714   |
| 85° | 4088   | 2453   | 4088   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 242.2  | 9.4       |
| 10°-20°   | 635.6  | 24.5      |
| 20°-30°   | 725.5  | 28.0      |
| 30°-40°   | 481.1  | 18.6      |
| 40°-50°   | 232.1  | 9.0       |
| 50°-60°   | 142.8  | 5.5       |
| 60°-70°   | 86.4   | 3.3       |
| 70°-80°   | 36.3   | 1.4       |
| 80°-90°   | 8.0    | 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°    | 1603.3 | 61.9      |
| 0°-40°    | 2084.4 | 80.5      |
| 0°-60°    | 2459.3 | 95.0      |
| 0°-90°    | 2590.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2590.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2544 | 2544 | 2544 | 2544 | 2544 |      |
| 5°  | 2561 | 2588 | 2600 | 2517 | 2521 | 241  |
| 15° | 2312 | 2312 | 2322 | 2223 | 2263 | 644  |
| 25° | 1738 | 1680 | 1492 | 1579 | 1619 | 788  |
| 35° | 982  | 866  | 462  | 808  | 863  | 607  |
| 45° | 399  | 349  | 104  | 326  | 352  | 325  |
| 55° | 242  | 197  | 31   | 197  | 219  | 213  |
| 65° | 116  | 111  | 19   | 105  | 115  | 117  |
| 75° | 43   | 43   | 12   | 40   | 45   | 46   |
| 85° | 6    | 9    | 4    | 6    | 6    | 8    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    | 112.5° | 135°   | 157.5° | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2544.1 | 2544.1 | 2544.1 | 2544.1 | 2544.1 | 2544.1 | 2544.1 | 2544.1 | 2544.1 |
| 2.5°  | 2550.5 | 2554.4 | 2562.2 | 2563.5 | 2559.6 | 2535.0 | 2514.3 | 2522.1 | 2528.5 |
| 5°    | 2560.9 | 2568.7 | 2588.1 | 2606.2 | 2599.7 | 2558.3 | 2516.9 | 2515.6 | 2520.8 |
| 7.5°  | 2523.4 | 2541.5 | 2581.6 | 2626.9 | 2625.6 | 2554.4 | 2493.6 | 2478.1 | 2478.1 |
| 10°   | 2449.6 | 2466.4 | 2510.4 | 2571.2 | 2569.9 | 2480.7 | 2413.4 | 2405.6 | 2406.9 |
| 12.5° | 2383.6 | 2391.4 | 2413.4 | 2461.2 | 2461.2 | 2373.3 | 2321.5 | 2329.3 | 2339.6 |
| 15°   | 2312.4 | 2317.6 | 2312.4 | 2328.0 | 2321.5 | 2249.0 | 2223.1 | 2247.7 | 2263.3 |
| 17.5° | 2211.5 | 2214.1 | 2186.9 | 2166.2 | 2141.6 | 2096.3 | 2102.8 | 2139.0 | 2142.9 |
| 20°   | 2070.4 | 2087.3 | 2038.1 | 1985.0 | 1961.8 | 1919.0 | 1955.3 | 1995.4 | 1992.8 |
| 22.5° | 1915.2 | 1934.6 | 1871.2 | 1783.2 | 1735.3 | 1718.5 | 1783.2 | 1819.4 | 1818.1 |
| 25°   | 1737.9 | 1752.1 | 1679.7 | 1556.7 | 1492.0 | 1489.4 | 1578.7 | 1616.2 | 1618.8 |
| 27.5° | 1538.6 | 1543.8 | 1462.3 | 1301.8 | 1221.6 | 1241.0 | 1353.6 | 1405.3 | 1411.8 |
| 30°   | 1339.3 | 1336.7 | 1252.6 | 1053.3 | 947.2  | 1000.3 | 1151.7 | 1208.6 | 1215.1 |
| 32.5° | 1156.9 | 1149.1 | 1053.3 | 815.2  | 688.4  | 767.4  | 966.6  | 1026.2 | 1036.5 |
| 35°   | 982.2  | 969.2  | 865.7  | 603.0  | 462.0  | 579.7  | 807.5  | 859.2  | 863.1  |
| 37.5° | 799.7  | 793.2  | 711.7  | 451.6  | 322.2  | 440.0  | 658.7  | 696.2  | 692.3  |
| 40°   | 630.2  | 630.2  | 562.9  | 335.2  | 223.9  | 327.4  | 521.5  | 555.1  | 543.5  |
| 42.5° | 494.3  | 500.8  | 443.9  | 247.2  | 159.2  | 243.3  | 412.8  | 443.9  | 430.9  |
| 45°   | 398.6  | 398.6  | 349.4  | 183.8  | 103.5  | 181.2  | 326.1  | 354.6  | 352.0  |
| 47.5° | 337.7  | 332.6  | 283.4  | 134.6  | 56.9   | 135.9  | 274.3  | 309.3  | 308.0  |
| 50°   | 301.5  | 293.7  | 243.3  | 106.1  | 40.1   | 112.6  | 240.7  | 273.0  | 274.3  |
| 52.5° | 273.0  | 261.4  | 218.7  | 94.5   | 34.9   | 98.3   | 218.7  | 244.6  | 244.6  |
| 55°   | 242.0  | 235.5  | 196.7  | 84.1   | 31.1   | 88.0   | 196.7  | 220.0  | 218.7  |
| 57.5° | 204.5  | 203.2  | 176.0  | 76.3   | 28.5   | 77.6   | 176.0  | 190.2  | 185.0  |
| 60°   | 166.9  | 172.1  | 152.7  | 68.6   | 25.9   | 69.9   | 150.1  | 161.8  | 159.2  |
| 62.5° | 139.8  | 146.2  | 133.3  | 60.8   | 22.0   | 62.1   | 126.8  | 138.5  | 135.9  |
| 65°   | 116.5  | 121.6  | 111.3  | 51.8   | 19.4   | 51.8   | 104.8  | 115.2  | 115.2  |
| 67.5° | 95.8   | 99.6   | 91.9   | 42.7   | 16.8   | 42.7   | 85.4   | 94.5   | 95.8   |
| 70°   | 76.3   | 78.9   | 72.5   | 33.6   | 14.2   | 34.9   | 67.3   | 76.3   | 76.3   |
| 72.5° | 59.5   | 60.8   | 56.9   | 27.2   | 12.9   | 27.2   | 51.8   | 59.5   | 59.5   |
| 75°   | 42.7   | 45.3   | 42.7   | 20.7   | 11.6   | 20.7   | 40.1   | 44.0   | 45.3   |
| 77.5° | 24.6   | 31.1   | 31.1   | 16.8   | 9.1    | 15.5   | 28.5   | 29.8   | 29.8   |
| 80°   | 16.8   | 19.4   | 22.0   | 11.6   | 6.5    | 11.6   | 18.1   | 19.4   | 18.1   |
| 82.5° | 11.6   | 12.9   | 12.9   | 7.8    | 5.2    | 7.8    | 11.6   | 12.9   | 11.6   |
| 85°   | 6.5    | 9.1    | 9.1    | 6.5    | 3.9    | 5.2    | 6.5    | 7.8    | 6.5    |
| 87.5° | 3.9    | 5.2    | 6.5    | 5.2    | 3.9    | 3.9    | 3.9    | 3.9    | 2.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)