

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: P#

Luminaire Tested: **LX6C100D010 EX6C1009027 6LCSQWH**

Issue Date: 2/16/2022

**Test Information**

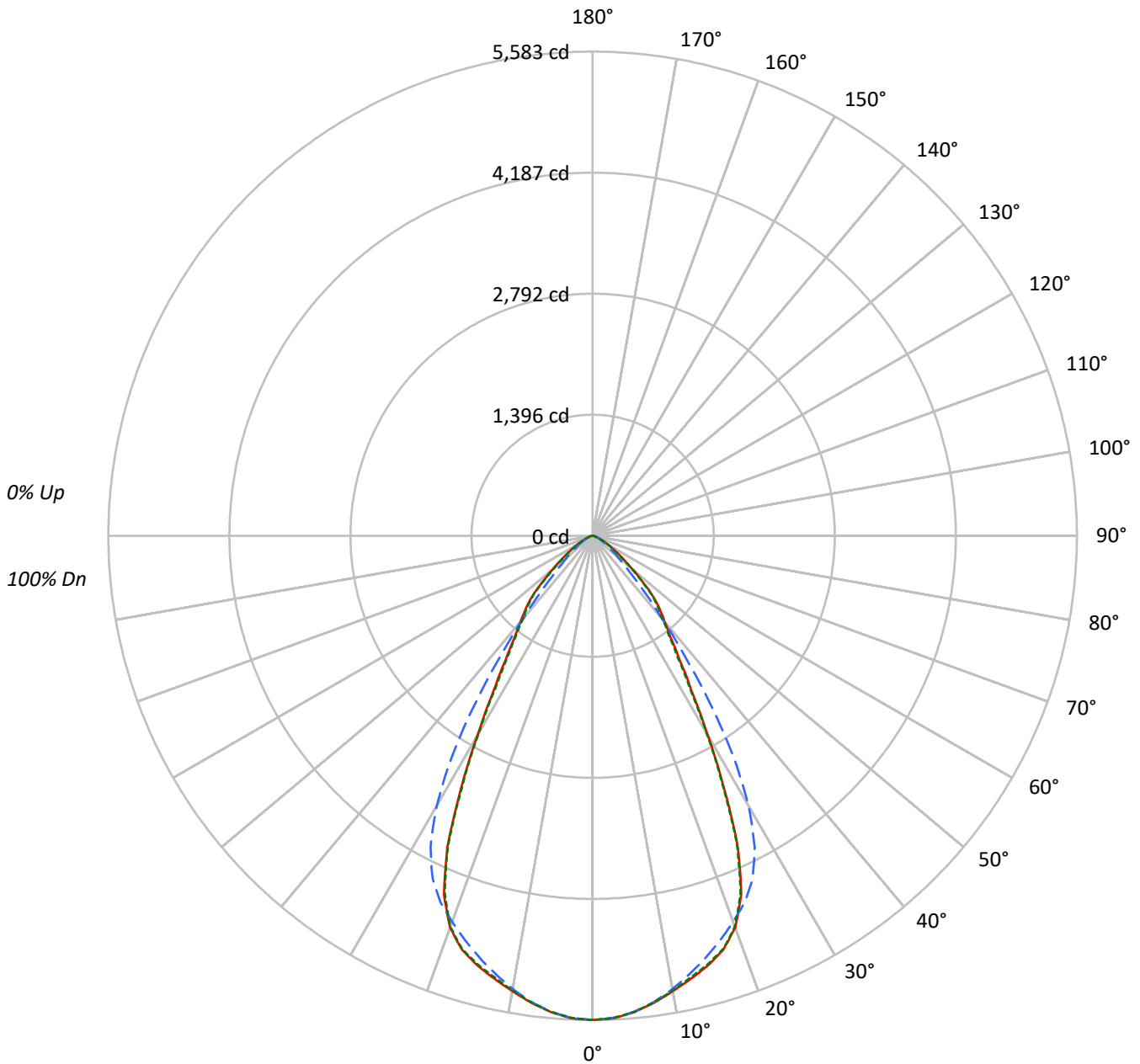
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C100D010 EX6C1009027 6LCSQWH  
Description: 6 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6116.0 lumens  
Efficiency: N/A  
Efficacy: 53.5 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.95 / 0.97  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 114.4  
Input Voltage (V):  
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 |  |  |  |  |  |  |  |  |   |
| 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 |    |    | 100 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  |    |    | 92  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 107 | 101 | 97  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 90  | 93  | 90  | 88  | 90  | 88  | 86  | 84  |    |    | 84  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 100 | 93  | 88  | 83  | 98  | 92  | 87  | 83  | 89  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 79  | 77  |    |    | 77  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 95  | 86  | 80  | 76  | 93  | 85  | 79  | 75  | 83  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 71  |    |    | 71  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 89  | 80  | 74  | 69  | 88  | 79  | 73  | 69  | 77  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 65  |    |    | 65  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 84  | 75  | 68  | 63  | 83  | 74  | 68  | 63  | 72  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 62  | 60  |    |    | 60  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 80  | 70  | 63  | 58  | 78  | 69  | 63  | 58  | 68  | 62  | 58  | 66  | 61  | 58  | 65  | 61  | 57  | 56  |    |    | 56  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 75  | 65  | 59  | 54  | 74  | 65  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 54  | 61  | 57  | 53  | 52  |    |    | 52  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 72  | 61  | 55  | 50  | 70  | 61  | 54  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 58  | 53  | 50  | 48  |    |    | 48  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 68  | 58  | 51  | 47  | 67  | 57  | 51  | 47  | 56  | 51  | 47  | 55  | 50  | 47  | 55  | 50  | 47  | 45  |    |    | 45  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 240393 | 240393 | 240393 |
| 5°  | 238242 | 238074 | 238242 |
| 10° | 233106 | 232013 | 232769 |
| 15° | 228676 | 224566 | 228074 |
| 20° | 220192 | 217026 | 219752 |
| 25° | 188169 | 207324 | 187257 |
| 30° | 131729 | 178785 | 130580 |
| 35° | 92035  | 124328 | 89917  |
| 40° | 72516  | 69711  | 70464  |
| 45° | 59855  | 39164  | 58923  |
| 50° | 40123  | 24824  | 38709  |
| 55° | 26521  | 17010  | 25222  |
| 60° | 17859  | 11573  | 16861  |
| 65° | 11930  | 8018   | 11145  |
| 70° | 7981   | 5803   | 7490   |
| 75° | 5107   | 4159   | 4791   |
| 80° | 3322   | 3322   | 3322   |
| 85° | 2865   | 2865   | 2865   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 519.8  | 8.5       |
| 10°-20°   | 1429.2 | 23.4      |
| 20°-30°   | 1846.9 | 30.2      |
| 30°-40°   | 1250.4 | 20.4      |
| 40°-50°   | 658.0  | 10.8      |
| 50°-60°   | 275.4  | 4.5       |
| 60°-70°   | 98.8   | 1.6       |
| 70°-80°   | 30.7   | 0.5       |
| 80°-90°   | 6.9    | 0.1       |
| 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°    | 3795.8 | 62.1      |
| 0°-40°    | 5046.3 | 82.5      |
| 0°-60°    | 5979.6 | 97.8      |
| 0°-90°    | 6116.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6116.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5583 | 5583  | 5583 | 5583  | 5583 |      |
| 5°  | 5512 | 5510  | 5508 | 5510  | 5512 | 520  |
| 15° | 5130 | 5082  | 5038 | 5073  | 5117 | 1441 |
| 25° | 3961 | 4128  | 4364 | 4128  | 3942 | 1757 |
| 35° | 1751 | 1887  | 2365 | 1858  | 1711 | 1134 |
| 45° | 983  | 900   | 643  | 883   | 968  | 737  |
| 55° | 353  | 301   | 227  | 296   | 336  | 331  |
| 65° | 117  | 94    | 79   | 92    | 109  | 122  |
| 75° | 31   | 27    | 25   | 25    | 29   | 35   |
| 85° | 6    | 6     | 6    | 6     | 6    | 7    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5583.3 | 5583.3 | 5583.3 | 5583.3 | 5583.3 |
| 2.5°  | 5569.9 | 5564.1 | 5562.2 | 5564.1 | 5564.1 |
| 5°    | 5512.3 | 5510.3 | 5508.4 | 5510.3 | 5512.3 |
| 7.5°  | 5431.6 | 5425.9 | 5422.0 | 5422.0 | 5423.9 |
| 10°   | 5331.8 | 5322.2 | 5306.8 | 5316.4 | 5324.1 |
| 12.5° | 5231.9 | 5208.9 | 5174.3 | 5197.4 | 5216.6 |
| 15°   | 5130.2 | 5082.2 | 5038.0 | 5072.6 | 5116.7 |
| 17.5° | 5005.4 | 4957.4 | 4888.3 | 4947.8 | 4997.7 |
| 20°   | 4805.7 | 4776.9 | 4736.6 | 4776.9 | 4796.1 |
| 22.5° | 4477.4 | 4511.9 | 4577.2 | 4506.2 | 4454.3 |
| 25°   | 3960.9 | 4128.0 | 4364.1 | 4128.0 | 3941.7 |
| 27.5° | 3283.2 | 3573.1 | 4047.3 | 3550.0 | 3254.4 |
| 30°   | 2649.6 | 2935.6 | 3596.1 | 2937.6 | 2626.5 |
| 32.5° | 2127.3 | 2355.8 | 3022.0 | 2323.2 | 2083.2 |
| 35°   | 1751.0 | 1887.3 | 2365.4 | 1858.5 | 1710.7 |
| 37.5° | 1474.5 | 1518.7 | 1731.8 | 1493.7 | 1443.8 |
| 40°   | 1290.2 | 1253.7 | 1240.3 | 1234.5 | 1253.7 |
| 42.5° | 1144.3 | 1057.9 | 898.5  | 1036.8 | 1109.7 |
| 45°   | 983.0  | 900.5  | 643.2  | 883.2  | 967.7  |
| 47.5° | 773.8  | 739.2  | 478.1  | 723.8  | 746.9  |
| 50°   | 599.0  | 553.0  | 370.6  | 543.4  | 577.9  |
| 52.5° | 460.8  | 409.0  | 291.8  | 395.5  | 437.8  |
| 55°   | 353.3  | 301.4  | 226.6  | 295.7  | 336.0  |
| 57.5° | 272.6  | 226.6  | 174.7  | 218.9  | 259.2  |
| 60°   | 207.4  | 170.9  | 134.4  | 163.2  | 195.8  |
| 62.5° | 155.5  | 126.7  | 103.7  | 122.9  | 147.8  |
| 65°   | 117.1  | 94.1   | 78.7   | 92.2   | 109.4  |
| 67.5° | 86.4   | 71.0   | 59.5   | 67.2   | 80.6   |
| 70°   | 63.4   | 51.8   | 46.1   | 49.9   | 59.5   |
| 72.5° | 44.2   | 38.4   | 34.6   | 36.5   | 40.3   |
| 75°   | 30.7   | 26.9   | 25.0   | 25.0   | 28.8   |
| 77.5° | 21.1   | 19.2   | 17.3   | 19.2   | 21.1   |
| 80°   | 13.4   | 13.4   | 13.4   | 13.4   | 13.4   |
| 82.5° | 9.6    | 9.6    | 9.6    | 9.6    | 7.7    |
| 85°   | 5.8    | 5.8    | 5.8    | 5.8    | 5.8    |
| 87.5° | 3.8    | 3.8    | 3.8    | 3.8    | 1.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)