

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: P684380

Luminaire Tested: **LX6C50D010 EX6C509035 6LBMDH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C50D010 EX6C509035 6LBMDH  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LRMD45 TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

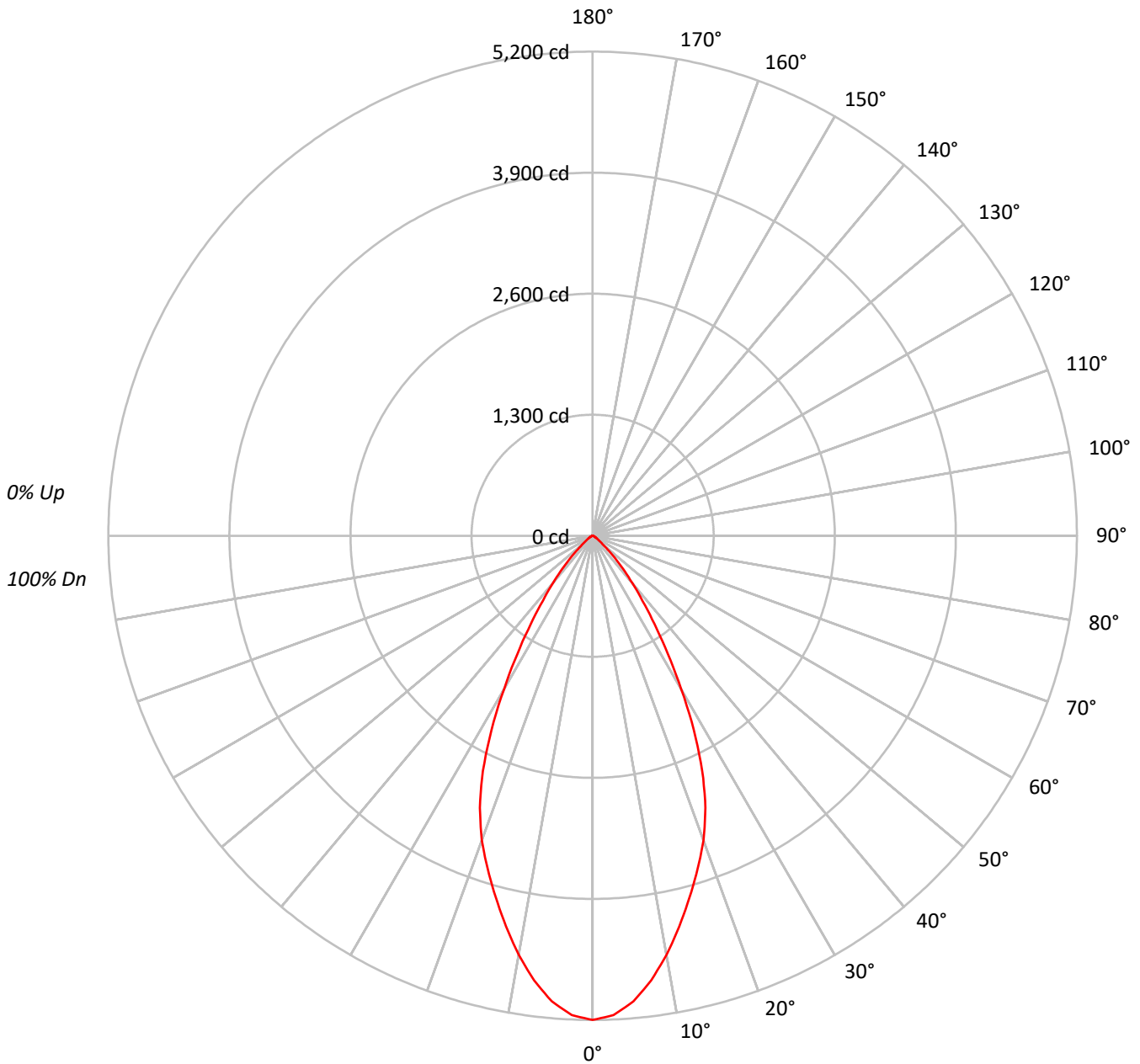
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3956.0 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.8  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
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  |     |     |     | 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   | 113 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |    |    |   |
| 2   | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 94  | 98  | 95  | 92  | 95  | 93  | 90  | 92  | 90  | 89  | 87  |    |    |   |
| 3   | 102 | 96  | 91  | 87  | 100 | 95  | 90  | 86  | 92  | 88  | 85  | 90  | 86  | 84  | 87  | 85  | 82  | 81  |    |    |   |
| 4   | 97  | 90  | 84  | 80  | 95  | 89  | 83  | 80  | 86  | 82  | 79  | 84  | 81  | 78  | 83  | 79  | 77  | 75  |    |    |   |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 78  | 74  | 81  | 77  | 73  | 80  | 76  | 72  | 78  | 75  | 72  | 70  |    |    |   |
| 6   | 88  | 79  | 73  | 69  | 86  | 78  | 73  | 69  | 77  | 72  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 66  |    |    |   |
| 7   | 84  | 74  | 68  | 64  | 82  | 74  | 68  | 64  | 72  | 67  | 64  | 71  | 67  | 63  | 70  | 66  | 63  | 62  |    |    |   |
| 8   | 80  | 70  | 64  | 60  | 78  | 70  | 64  | 60  | 68  | 63  | 60  | 67  | 63  | 59  | 66  | 62  | 59  | 58  |    |    |   |
| 9   | 76  | 66  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 63  | 59  | 56  | 54  |    |    |   |
| 10  | 72  | 63  | 57  | 53  | 71  | 62  | 57  | 53  | 62  | 56  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 51  |    |    |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 285043 |
| 5°  | 276221 |
| 10° | 254354 |
| 15° | 228140 |
| 20° | 202988 |
| 25° | 168566 |
| 30° | 120430 |
| 35° | 77410  |
| 40° | 47174  |
| 45° | 26228  |
| 50° | 11616  |
| 55° | 6729   |
| 60° | 4429   |
| 65° | 3139   |
| 70° | 2228   |
| 75° | 1716   |
| 80° | 1105   |
| 85° | 755    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 464.6  | 11.7      |
| 10°-20°   | 1124.6 | 28.4      |
| 20°-30°   | 1250.7 | 31.6      |
| 30°-40°   | 741.1  | 18.7      |
| 40°-50°   | 271.5  | 6.9       |
| 50°-60°   | 68.2   | 1.7       |
| 60°-70°   | 24.9   | 0.6       |
| 70°-80°   | 8.7    | 0.2       |
| 80°-90°   | 1.8    | 0.0       |
| 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°    | 2839.9 | 71.8      |
| 0°-40°    | 3581.0 | 90.5      |
| 0°-60°    | 3920.7 | 99.1      |
| 0°-90°    | 3956.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3956.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5200 |      |
| 5°  | 5020 | 465  |
| 15° | 4020 | 1125 |
| 25° | 2787 | 1251 |
| 35° | 1157 | 741  |
| 45° | 338  | 271  |
| 55° | 70   | 68   |
| 65° | 24   | 25   |
| 75° | 8    | 9    |
| 85° | 1    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 5199.6 |
| 2.5°  | 5153.4 |
| 5°    | 5019.5 |
| 7.5°  | 4816.3 |
| 10°   | 4569.3 |
| 12.5° | 4296.8 |
| 15°   | 4019.8 |
| 17.5° | 3750.8 |
| 20°   | 3479.5 |
| 22.5° | 3164.3 |
| 25°   | 2786.8 |
| 27.5° | 2352.7 |
| 30°   | 1902.5 |
| 32.5° | 1499.6 |
| 35°   | 1156.7 |
| 37.5° | 878.5  |
| 40°   | 659.2  |
| 42.5° | 480.2  |
| 45°   | 338.3  |
| 47.5° | 214.7  |
| 50°   | 136.2  |
| 52.5° | 95.8   |
| 55°   | 70.4   |
| 57.5° | 53.1   |
| 60°   | 40.4   |
| 62.5° | 31.2   |
| 65°   | 24.2   |
| 67.5° | 18.5   |
| 70°   | 13.9   |
| 72.5° | 10.4   |
| 75°   | 8.1    |
| 77.5° | 5.8    |
| 80°   | 3.5    |
| 82.5° | 2.3    |
| 85°   | 1.2    |
| 87.5° | 1.2    |
| 90°   | 0.0    |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)