

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: P684655

Luminaire Tested: **LX6C80D010 EX6C809035 6LBNH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C80D010 EX6C809035 6LBNH  
Description: 6 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 6LBN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

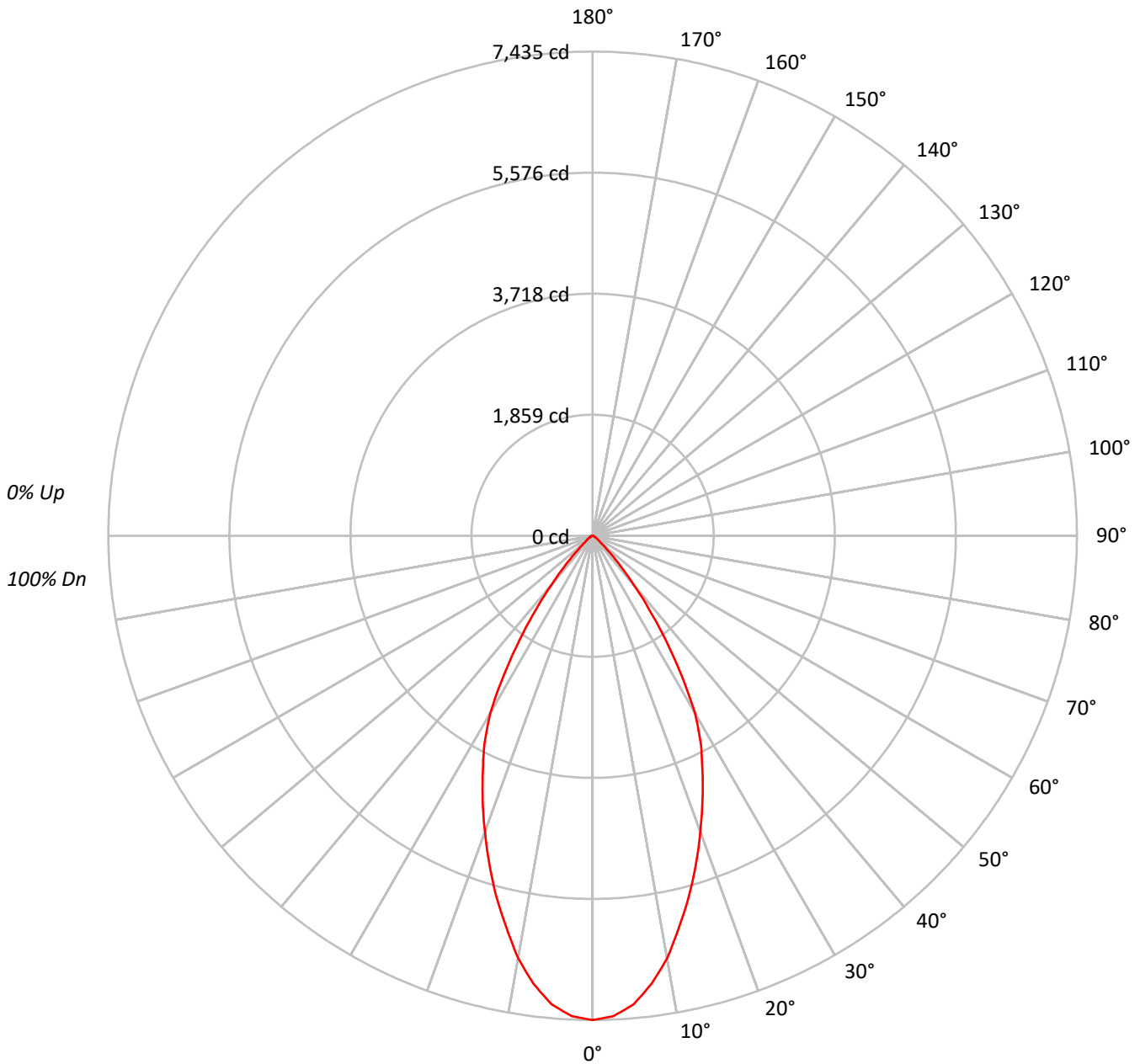
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5800.0 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 89.5  
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 | 104 | 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  | 79  | 86  | 82  | 78  | 84  | 81  | 78  | 83  | 79  | 77  | 75  |    |    |   |
| 5   | 92  | 84  | 78  | 74  | 91  | 83  | 78  | 73  | 81  | 76  | 73  | 80  | 75  | 72  | 78  | 74  | 72  | 70  |    |    |   |
| 6   | 88  | 79  | 73  | 69  | 86  | 78  | 72  | 68  | 77  | 72  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 65  |    |    |   |
| 7   | 83  | 74  | 68  | 64  | 82  | 73  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 63  | 61  |    |    |   |
| 8   | 79  | 70  | 64  | 60  | 78  | 69  | 64  | 60  | 68  | 63  | 59  | 67  | 63  | 59  | 66  | 62  | 59  | 58  |    |    |   |
| 9   | 76  | 66  | 60  | 56  | 75  | 66  | 60  | 56  | 65  | 59  | 56  | 64  | 59  | 56  | 63  | 59  | 55  | 54  |    |    |   |
| 10  | 72  | 62  | 57  | 53  | 71  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 52  | 60  | 55  | 52  | 51  |    |    |   |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 407588 |
| 5°  | 397501 |
| 10° | 366782 |
| 15° | 324729 |
| 20° | 281955 |
| 25° | 241163 |
| 30° | 198828 |
| 35° | 130935 |
| 40° | 70389  |
| 45° | 31158  |
| 50° | 12639  |
| 55° | 9118   |
| 60° | 5789   |
| 65° | 4138   |
| 70° | 3414   |
| 75° | 2245   |
| 80° | 3346   |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 668.6  | 11.5      |
| 10°-20°   | 1594.4 | 27.5      |
| 20°-30°   | 1826.6 | 31.5      |
| 30°-40°   | 1227.2 | 21.2      |
| 40°-50°   | 350.6  | 6.0       |
| 50°-60°   | 85.8   | 1.5       |
| 60°-70°   | 32.6   | 0.6       |
| 70°-80°   | 12.6   | 0.2       |
| 80°-90°   | 1.4    | 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°    | 4089.6 | 70.5      |
| 0°-40°    | 5316.9 | 91.7      |
| 0°-60°    | 5753.3 | 99.2      |
| 0°-90°    | 5800.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5800.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 7435 |      |
| 5°  | 7223 | 669  |
| 15° | 5722 | 1594 |
| 25° | 3987 | 1827 |
| 35° | 1956 | 1227 |
| 45° | 402  | 351  |
| 55° | 95   | 86   |
| 65° | 32   | 33   |
| 75° | 11   | 13   |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 7435.0 |
| 2.5°  | 7382.2 |
| 5°    | 7223.4 |
| 7.5°  | 6937.7 |
| 10°   | 6589.0 |
| 12.5° | 6144.5 |
| 15°   | 5721.7 |
| 17.5° | 5277.6 |
| 20°   | 4833.1 |
| 22.5° | 4410.3 |
| 25°   | 3987.0 |
| 27.5° | 3595.7 |
| 30°   | 3141.0 |
| 32.5° | 2538.1 |
| 35°   | 1956.5 |
| 37.5° | 1427.7 |
| 40°   | 983.6  |
| 42.5° | 645.1  |
| 45°   | 401.9  |
| 47.5° | 243.1  |
| 50°   | 148.2  |
| 52.5° | 116.2  |
| 55°   | 95.4   |
| 57.5° | 74.1   |
| 60°   | 52.8   |
| 62.5° | 42.2   |
| 65°   | 31.9   |
| 67.5° | 21.3   |
| 70°   | 21.3   |
| 72.5° | 10.6   |
| 75°   | 10.6   |
| 77.5° | 10.6   |
| 80°   | 10.6   |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)