

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: P684807

Luminaire Tested: **LX6C120D010 EX61209040 6LBNLI**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684807  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205310)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C120D010 EX61209040 6LBNLI  
Description: 6 INCH 12000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LBN TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

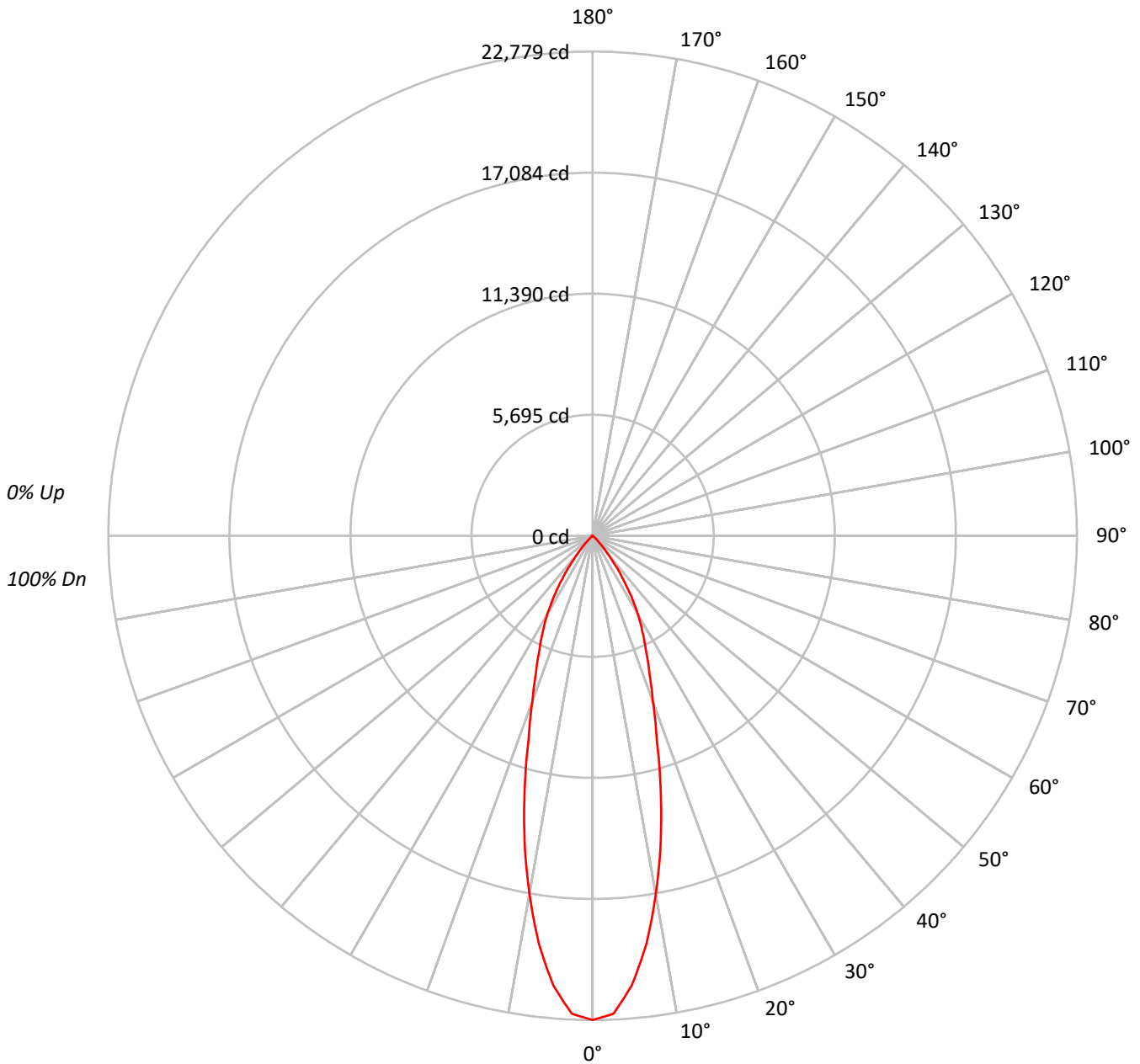
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10005.0 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.58  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 142.3  
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

TEST NUMBER: P684807

CATALOG NUMBER: LX6C120D010 EX61209040 6LBNLI

### Luminous Intensity Polar Plot





TEST NUMBER: P684807

CATALOG NUMBER: LX6C120D010 EX61209040 6LBNLI

**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   | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 101 | 99  | 98  | 97  | 96  | 95  |    |    |   |
| 2   | 109 | 105 | 101 | 98  | 107 | 103 | 100 | 97  | 100 | 97  | 95  | 97  | 95  | 93  | 94  | 93  | 91  | 89  |    |    |   |
| 3   | 105 | 99  | 94  | 91  | 103 | 97  | 93  | 90  | 95  | 91  | 89  | 93  | 90  | 87  | 90  | 88  | 86  | 85  |    |    |   |
| 4   | 100 | 93  | 88  | 85  | 98  | 92  | 88  | 84  | 90  | 86  | 83  | 88  | 85  | 82  | 86  | 84  | 81  | 80  |    |    |   |
| 5   | 96  | 88  | 83  | 79  | 94  | 87  | 83  | 79  | 86  | 82  | 78  | 84  | 81  | 78  | 83  | 80  | 77  | 76  |    |    |   |
| 6   | 92  | 84  | 79  | 75  | 90  | 83  | 78  | 75  | 82  | 77  | 74  | 80  | 76  | 74  | 79  | 76  | 73  | 72  |    |    |   |
| 7   | 88  | 80  | 74  | 71  | 87  | 79  | 74  | 71  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 68  |    |    |   |
| 8   | 84  | 76  | 71  | 67  | 83  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 73  | 69  | 66  | 65  |    |    |   |
| 9   | 81  | 73  | 67  | 64  | 80  | 72  | 67  | 64  | 71  | 67  | 63  | 70  | 66  | 63  | 70  | 66  | 63  | 62  |    |    |   |
| 10  | 78  | 69  | 64  | 61  | 77  | 69  | 64  | 61  | 68  | 64  | 61  | 67  | 63  | 60  | 67  | 63  | 60  | 59  |    |    |   |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 1248749 |
| 5°  | 1167794 |
| 10° | 952426  |
| 15° | 700861  |
| 20° | 483077  |
| 25° | 358636  |
| 30° | 269383  |
| 35° | 167990  |
| 40° | 81546   |
| 45° | 27972   |
| 50° | 3667    |
| 55° | 2772    |
| 60° | 1590    |
| 65° | 1881    |
| 70° | 2324    |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |



TEST NUMBER: P684807

CATALOG NUMBER: LX6C120D010 EX61209040 6LBNLI

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1893.9  | 18.9      |
| 10°-20°   | 3399.4  | 34.0      |
| 20°-30°   | 2748.5  | 27.5      |
| 30°-40°   | 1583.3  | 15.8      |
| 40°-50°   | 334.7   | 3.3       |
| 50°-60°   | 28.9    | 0.3       |
| 60°-70°   | 14.4    | 0.1       |
| 70°-80°   | 1.9     | 0.0       |
| 80°-90°   | 0.0     | 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°    | 8041.8  | 80.4      |
| 0°-40°    | 9625.1  | 96.2      |
| 0°-60°    | 9988.7  | 99.8      |
| 0°-90°    | 10005.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10005.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 22779 |      |
| 5°  | 21221 | ###  |
| 15° | 12349 | 3399 |
| 25° | 5929  | 2748 |
| 35° | 2510  | 1583 |
| 45° | 361   | 335  |
| 55° | 29    | 29   |
| 65° | 14    | 14   |
| 75° | 0     | 2    |
| 85° | 0     | 0    |
| 90° | 0     |      |



TEST NUMBER: P684807

CATALOG NUMBER: LX6C120D010 EX61209040 6LBNLI

**CANDELA DISTRIBUTION (FULL):**

| 0°    |         |
|-------|---------|
| 0°    | 22779.0 |
| 2.5°  | 22505.3 |
| 5°    | 21221.2 |
| 7.5°  | 19374.6 |
| 10°   | 17109.7 |
| 12.5° | 14787.2 |
| 15°   | 12349.1 |
| 17.5° | 9997.6  |
| 20°   | 8280.6  |
| 22.5° | 6968.0  |
| 25°   | 5929.1  |
| 27.5° | 5049.3  |
| 30°   | 4255.6  |
| 32.5° | 3375.9  |
| 35°   | 2510.2  |
| 37.5° | 1745.5  |
| 40°   | 1139.5  |
| 42.5° | 692.6   |
| 45°   | 360.8   |
| 47.5° | 144.1   |
| 50°   | 43.0    |
| 52.5° | 43.0    |
| 55°   | 29.0    |
| 57.5° | 29.0    |
| 60°   | 14.5    |
| 62.5° | 14.5    |
| 65°   | 14.5    |
| 67.5° | 14.5    |
| 70°   | 14.5    |
| 72.5° | 0.0     |
| 75°   | 0.0     |
| 77.5° | 0.0     |
| 80°   | 0.0     |
| 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)