

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: P844160

Luminaire Tested: **LD6C20DE010B2750 EU6C20B40 6LBNLI**

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P844160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205310)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C20DE010B2750 EU6C20B40 6LBNLI  
Description:  
Light Source: -  
Ballast/Driver:

**Summary**

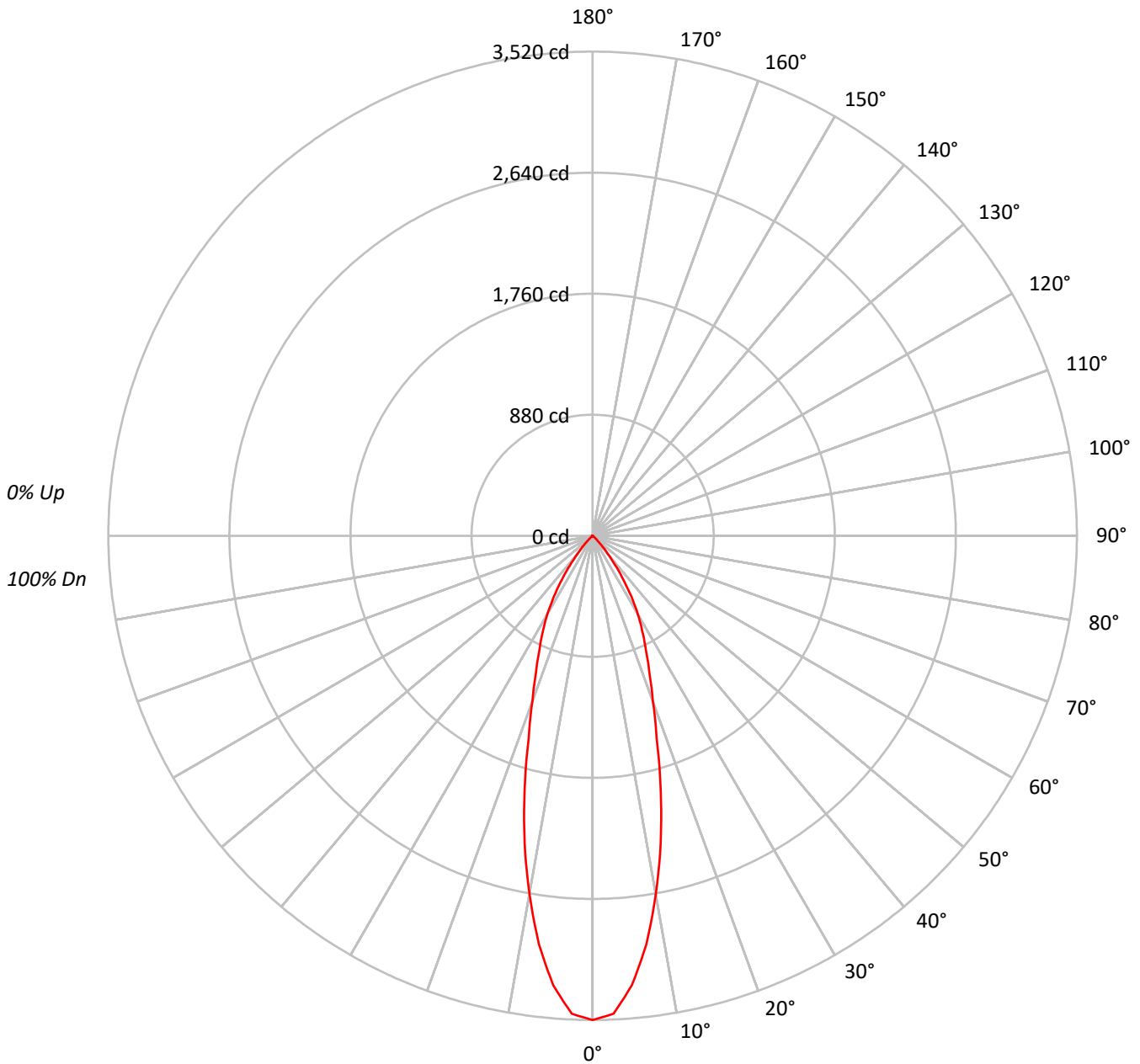
Lumens per Lamp: N/A  
Luminaire Lumens: 1546.1 lumens  
Efficiency: N/A  
Efficacy: 70.9 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.58  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
Input Voltage (V):  
Input Current (Ain): 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   | 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°  | 192989 |
| 5°  | 180480 |
| 10° | 147197 |
| 15° | 108315 |
| 20° | 74656  |
| 25° | 55425  |
| 30° | 41633  |
| 35° | 25959  |
| 40° | 12602  |
| 45° | 4318   |
| 50° | 571    |
| 55° | 421    |
| 60° | 241    |
| 65° | 285    |
| 70° | 353    |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 292.7  | 18.9      |
| 10°-20°   | 525.4  | 34.0      |
| 20°-30°   | 424.8  | 27.5      |
| 30°-40°   | 244.7  | 15.8      |
| 40°-50°   | 51.7   | 3.3       |
| 50°-60°   | 4.4    | 0.3       |
| 60°-70°   | 2.2    | 0.1       |
| 70°-80°   | 0.3    | 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°    | 1242.8 | 80.4      |
| 0°-40°    | 1487.5 | 96.2      |
| 0°-60°    | 1543.7 | 99.8      |
| 0°-90°    | 1546.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1546.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3520 |      |
| 5°  | 3280 | 293  |
| 15° | 1908 | 525  |
| 25° | 916  | 425  |
| 35° | 388  | 245  |
| 45° | 56   | 52   |
| 55° | 4    | 4    |
| 65° | 2    | 2    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3520.4 |
| 2.5°  | 3478.1 |
| 5°    | 3279.7 |
| 7.5°  | 2994.4 |
| 10°   | 2644.3 |
| 12.5° | 2285.3 |
| 15°   | 1908.5 |
| 17.5° | 1545.1 |
| 20°   | 1279.7 |
| 22.5° | 1076.9 |
| 25°   | 916.3  |
| 27.5° | 780.3  |
| 30°   | 657.7  |
| 32.5° | 521.7  |
| 35°   | 387.9  |
| 37.5° | 269.8  |
| 40°   | 176.1  |
| 42.5° | 107.0  |
| 45°   | 55.7   |
| 47.5° | 22.3   |
| 50°   | 6.7    |
| 52.5° | 6.7    |
| 55°   | 4.4    |
| 57.5° | 4.4    |
| 60°   | 2.2    |
| 62.5° | 2.2    |
| 65°   | 2.2    |
| 67.5° | 2.2    |
| 70°   | 2.2    |
| 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    |



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— 0°-180°







(END OF REPORT)