

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P204773

Luminaire Tested: **LE\_6B15D010 EC6B10208050 6LBCSMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204773  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B15D010 EC6B10208050 6LBCSMW1  
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE TRIM  
WATTAGE D010TR-14.39 W DE010-14.29 W D5LT-14.34 W DMX-14.46 W DL2-15.8 W  
DL3-15.28 W DLE-15.432 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2084.2 lumens  
Efficiency: N/A  
Efficacy: 145.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

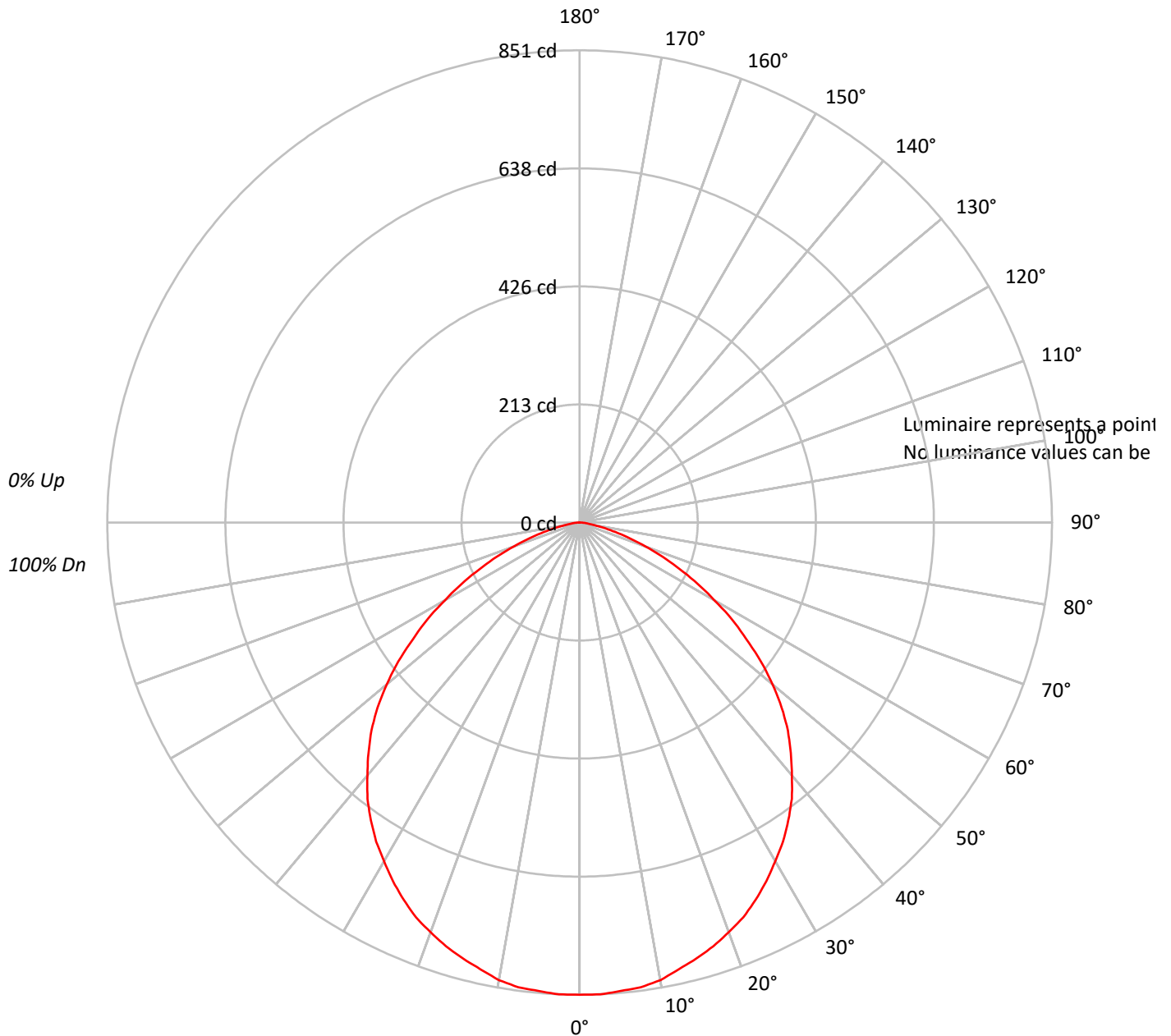
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RW  | 70  | 50  | 30  | 10  |  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |
| RCR |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 |  | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 110 | 106 | 102 | 99  |  | 108 | 104 | 100 | 97  |  | 100 | 97  | 94  |  | 96  | 93  | 91  |  | 92  | 90  | 89  |
| 2   | 101 | 94  | 87  | 82  |  | 99  | 92  | 86  | 81  |  | 88  | 84  | 79  |  | 85  | 81  | 78  |  | 82  | 79  | 76  |
| 3   | 93  | 83  | 75  | 70  |  | 90  | 81  | 74  | 69  |  | 79  | 73  | 68  |  | 76  | 71  | 67  |  | 73  | 69  | 65  |
| 4   | 85  | 74  | 66  | 60  |  | 83  | 73  | 65  | 59  |  | 70  | 64  | 58  |  | 68  | 62  | 58  |  | 66  | 61  | 57  |
| 5   | 79  | 66  | 58  | 52  |  | 77  | 65  | 57  | 51  |  | 63  | 56  | 51  |  | 61  | 55  | 50  |  | 60  | 54  | 50  |
| 6   | 73  | 60  | 52  | 45  |  | 71  | 59  | 51  | 45  |  | 57  | 50  | 45  |  | 56  | 49  | 44  |  | 54  | 49  | 44  |
| 7   | 68  | 55  | 46  | 40  |  | 66  | 54  | 46  | 40  |  | 52  | 45  | 40  |  | 51  | 44  | 40  |  | 50  | 44  | 39  |
| 8   | 63  | 50  | 42  | 36  |  | 61  | 49  | 41  | 36  |  | 48  | 41  | 36  |  | 47  | 40  | 36  |  | 46  | 40  | 35  |
| 9   | 59  | 46  | 38  | 33  |  | 57  | 45  | 38  | 32  |  | 44  | 37  | 32  |  | 43  | 37  | 32  |  | 42  | 36  | 32  |
| 10  | 55  | 42  | 35  | 30  |  | 54  | 42  | 34  | 30  |  | 41  | 34  | 29  |  | 40  | 34  | 29  |  | 39  | 33  | 29  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.7   | 3.9       |
| 10°-20°   | 229.6  | 11.0      |
| 20°-30°   | 345.4  | 16.6      |
| 30°-40°   | 409.4  | 19.6      |
| 40°-50°   | 407.4  | 19.5      |
| 50°-60°   | 328.4  | 15.8      |
| 60°-70°   | 198.6  | 9.5       |
| 70°-80°   | 73.8   | 3.5       |
| 80°-90°   | 11.0   | 0.5       |
| 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°    | 655.7  | 31.5      |
| 0°-40°    | 1065.1 | 51.1      |
| 0°-60°    | 1800.9 | 86.4      |
| 0°-90°    | 2084.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2084.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 851 |      |
| 5°  | 848 | 81   |
| 15° | 813 | 230  |
| 25° | 750 | 345  |
| 35° | 656 | 409  |
| 45° | 530 | 407  |
| 55° | 366 | 328  |
| 65° | 200 | 199  |
| 75° | 67  | 74   |
| 85° | 9   | 11   |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 851.2 |
| 2.5°  | 851.2 |
| 5°    | 847.5 |
| 7.5°  | 844.9 |
| 10°   | 837.4 |
| 12.5° | 824.8 |
| 15°   | 813.4 |
| 17.5° | 800.8 |
| 20°   | 785.6 |
| 22.5° | 770.4 |
| 25°   | 750.2 |
| 27.5° | 728.8 |
| 30°   | 704.8 |
| 32.5° | 682.0 |
| 35°   | 655.5 |
| 37.5° | 627.8 |
| 40°   | 594.9 |
| 42.5° | 563.2 |
| 45°   | 530.5 |
| 47.5° | 493.9 |
| 50°   | 453.4 |
| 52.5° | 411.8 |
| 55°   | 366.2 |
| 57.5° | 325.9 |
| 60°   | 280.4 |
| 62.5° | 240.0 |
| 65°   | 199.5 |
| 67.5° | 161.6 |
| 70°   | 126.2 |
| 72.5° | 94.8  |
| 75°   | 66.9  |
| 77.5° | 43.0  |
| 80°   | 25.2  |
| 82.5° | 15.1  |
| 85°   | 8.9   |
| 87.5° | 3.8   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)