

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: P203219

Luminaire Tested: **LE\_6B10D010 EC6B10209050 6LBMH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P203219  
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\_6B10D010 EC6B10209050 6LBMH1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM  
WATTAGE D010TR-10.05 W DE010-10.58 W D5LT-10.2 W DMX-10.6 W DL2-11.8 W  
DL3-11.1 W DLE-11.39 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 846.2 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

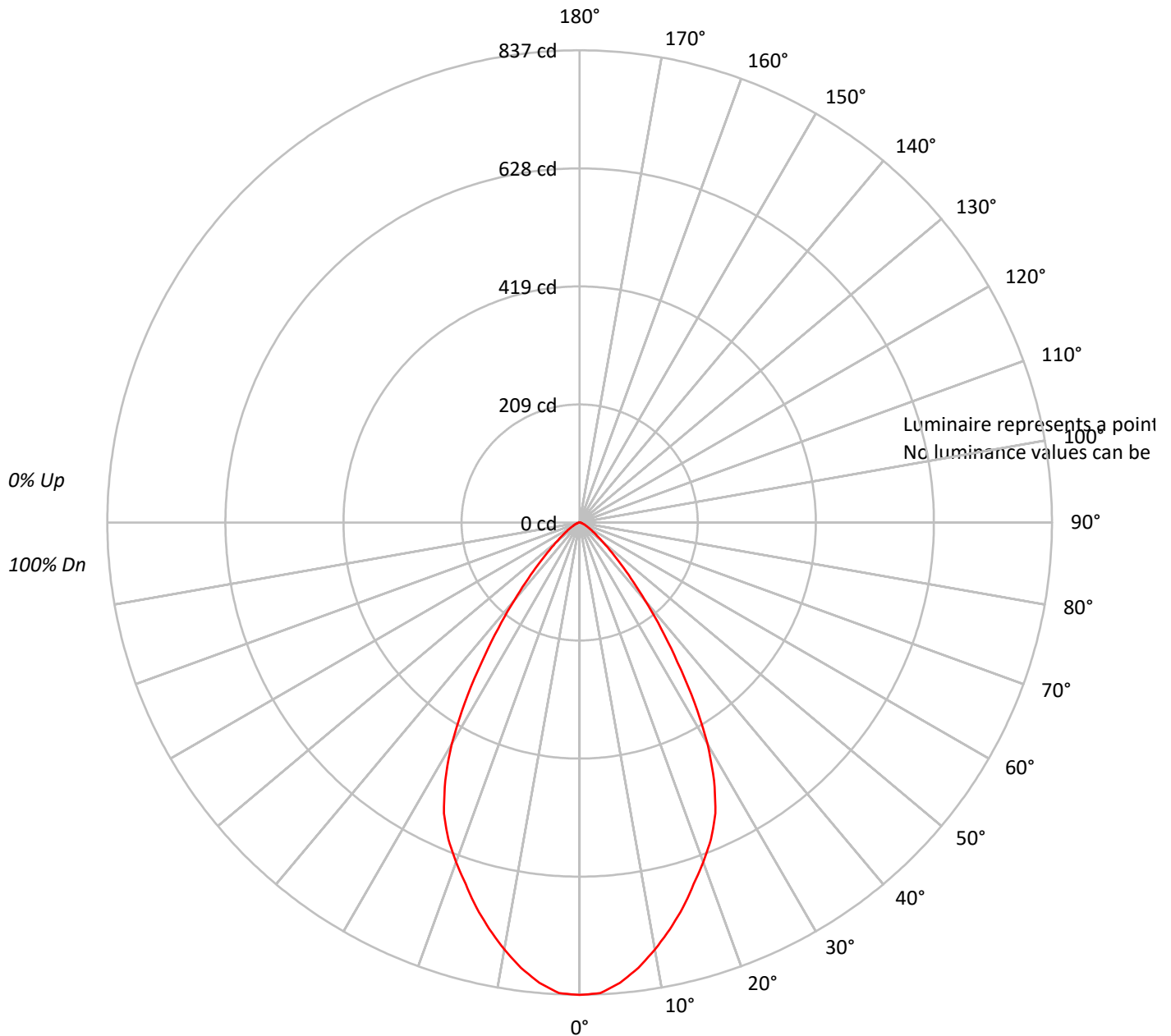
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  |
| 2   | 107 | 102 | 97  | 93  | 105 | 100 | 96  | 92  | 97  | 93  | 90  |  | 94  | 91  | 88  |  | 91  |
| 3   | 101 | 94  | 88  | 84  | 99  | 92  | 88  | 84  | 90  | 86  | 82  |  | 87  | 84  | 81  |  | 85  |
| 4   | 95  | 87  | 81  | 76  | 93  | 86  | 80  | 76  | 84  | 79  | 75  |  | 82  | 78  | 74  |  | 80  |
| 5   | 90  | 81  | 75  | 70  | 88  | 80  | 74  | 70  | 78  | 73  | 69  |  | 76  | 72  | 68  |  | 75  |
| 6   | 85  | 75  | 69  | 64  | 83  | 75  | 69  | 64  | 73  | 68  | 64  |  | 72  | 67  | 63  |  | 70  |
| 7   | 80  | 70  | 64  | 59  | 79  | 70  | 64  | 59  | 68  | 63  | 59  |  | 67  | 62  | 59  |  | 66  |
| 8   | 76  | 66  | 60  | 55  | 75  | 65  | 59  | 55  | 64  | 59  | 55  |  | 63  | 58  | 55  |  | 62  |
| 9   | 72  | 62  | 56  | 51  | 71  | 61  | 55  | 51  | 60  | 55  | 51  |  | 60  | 55  | 51  |  | 59  |
| 10  | 69  | 58  | 52  | 48  | 68  | 58  | 52  | 48  | 57  | 52  | 48  |  | 56  | 51  | 48  |  | 55  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 76.6   | 9.0       |
| 10°-20°   | 198.1  | 23.4      |
| 20°-30°   | 256.7  | 30.3      |
| 30°-40°   | 190.6  | 22.5      |
| 40°-50°   | 80.4   | 9.5       |
| 50°-60°   | 28.6   | 3.4       |
| 60°-70°   | 11.0   | 1.3       |
| 70°-80°   | 3.8    | 0.5       |
| 80°-90°   | 0.5    | 0.1       |
| 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°    | 531.3  | 62.8      |
| 0°-40°    | 721.9  | 85.3      |
| 0°-60°    | 830.9  | 98.2      |
| 0°-90°    | 846.2  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 846.2  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 837 |      |
| 5°  | 819 | 77   |
| 15° | 707 | 198  |
| 25° | 569 | 257  |
| 35° | 302 | 191  |
| 45° | 99  | 80   |
| 55° | 30  | 29   |
| 65° | 11  | 11   |
| 75° | 4   | 4    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 837.4 |
| 2.5°  | 835.0 |
| 5°    | 819.2 |
| 7.5°  | 796.4 |
| 10°   | 768.5 |
| 12.5° | 738.4 |
| 15°   | 706.9 |
| 17.5° | 671.9 |
| 20°   | 640.5 |
| 22.5° | 607.9 |
| 25°   | 569.1 |
| 27.5° | 516.0 |
| 30°   | 453.1 |
| 32.5° | 379.5 |
| 35°   | 302.1 |
| 37.5° | 236.9 |
| 40°   | 180.0 |
| 42.5° | 134.1 |
| 45°   | 99.1  |
| 47.5° | 72.5  |
| 50°   | 53.1  |
| 52.5° | 39.9  |
| 55°   | 30.2  |
| 57.5° | 23.0  |
| 60°   | 18.1  |
| 62.5° | 13.2  |
| 65°   | 10.9  |
| 67.5° | 8.5   |
| 70°   | 6.0   |
| 72.5° | 4.9   |
| 75°   | 3.6   |
| 77.5° | 2.4   |
| 80°   | 1.2   |
| 82.5° | 1.2   |
| 85°   | 0.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)