

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: P202656

Luminaire Tested: **LE\_6B50D010R EC6B30508027 6LBMWMH1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P202656  
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\_6B50D010R EC6B30508027 6LBMWMH1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
MEDIUM DISTRIBUTION WITH WARM HAZE TRIM  
SINGLE DRIVER D010TE  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5014.0 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.89  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

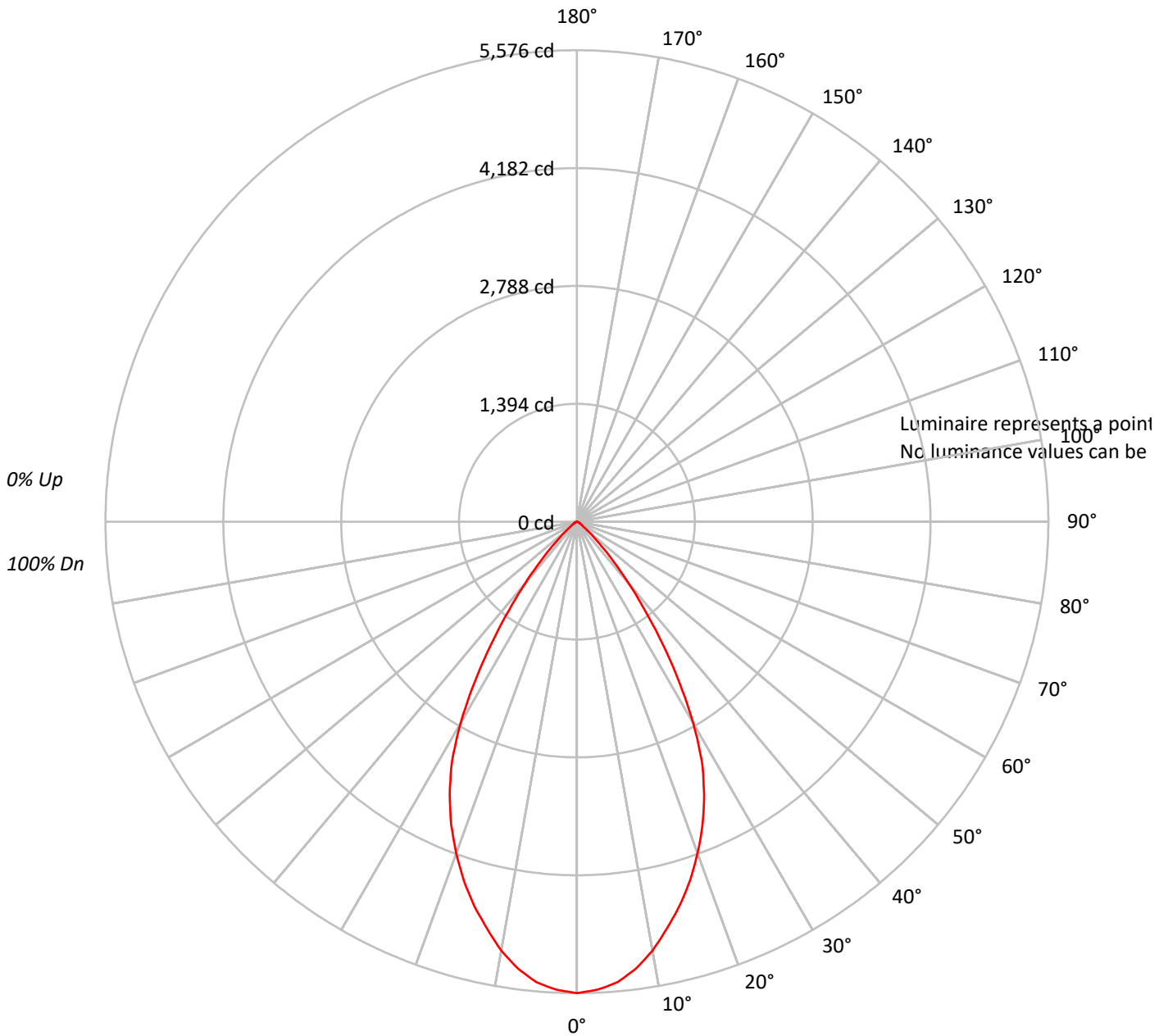
Input Watts (W): 58.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |    |    |   |
| 2   | 108 | 103 | 99  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 92  | 95  | 92  | 90  | 92  | 90  | 88  | 86  |    |    |   |
| 3   | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 86  | 91  | 88  | 84  | 89  | 86  | 83  | 87  | 84  | 82  | 80  |    |    |   |
| 4   | 97  | 89  | 83  | 79  | 95  | 88  | 83  | 79  | 86  | 81  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |   |
| 5   | 92  | 83  | 77  | 73  | 90  | 82  | 77  | 73  | 80  | 76  | 72  | 79  | 75  | 71  | 77  | 74  | 71  | 69  |    |    |   |
| 6   | 87  | 78  | 72  | 67  | 85  | 77  | 71  | 67  | 76  | 71  | 67  | 74  | 70  | 66  | 73  | 69  | 66  | 64  |    |    |   |
| 7   | 83  | 73  | 67  | 63  | 81  | 72  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 61  | 60  |    |    |   |
| 8   | 78  | 69  | 63  | 58  | 77  | 68  | 62  | 58  | 67  | 62  | 58  | 66  | 61  | 58  | 65  | 61  | 58  | 56  |    |    |   |
| 9   | 75  | 65  | 59  | 55  | 73  | 64  | 59  | 55  | 63  | 58  | 54  | 62  | 58  | 54  | 62  | 57  | 54  | 53  |    |    |   |
| 10  | 71  | 61  | 55  | 51  | 70  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 58  | 54  | 51  | 50  |    |    |   |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 511.8  | 10.2      |
| 10°-20°   | 1313.7 | 26.2      |
| 20°-30°   | 1613.6 | 32.2      |
| 30°-40°   | 1106.5 | 22.1      |
| 40°-50°   | 355.7  | 7.1       |
| 50°-60°   | 72.1   | 1.4       |
| 60°-70°   | 28.3   | 0.6       |
| 70°-80°   | 10.6   | 0.2       |
| 80°-90°   | 1.7    | 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°    | 3439.1 | 68.6      |
| 0°-40°    | 4545.6 | 90.7      |
| 0°-60°    | 4973.3 | 99.2      |
| 0°-90°    | 5014.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5014.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5576 |      |
| 5°  | 5470 | 512  |
| 15° | 4700 | 1314 |
| 25° | 3560 | 1614 |
| 35° | 1765 | 1106 |
| 45° | 421  | 356  |
| 55° | 72   | 72   |
| 65° | 30   | 28   |
| 75° | 8    | 11   |
| 85° | 0    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 5576.0 |
| 2.5°  | 5541.9 |
| 5°    | 5469.6 |
| 7.5°  | 5333.5 |
| 10°   | 5150.6 |
| 12.5° | 4925.2 |
| 15°   | 4699.8 |
| 17.5° | 4448.9 |
| 20°   | 4172.4 |
| 22.5° | 3883.1 |
| 25°   | 3559.9 |
| 27.5° | 3202.6 |
| 30°   | 2751.9 |
| 32.5° | 2254.2 |
| 35°   | 1765.1 |
| 37.5° | 1318.5 |
| 40°   | 948.5  |
| 42.5° | 646.5  |
| 45°   | 421.1  |
| 47.5° | 259.5  |
| 50°   | 157.4  |
| 52.5° | 97.9   |
| 55°   | 72.2   |
| 57.5° | 55.2   |
| 60°   | 42.5   |
| 62.5° | 34.0   |
| 65°   | 29.8   |
| 67.5° | 21.2   |
| 70°   | 17.0   |
| 72.5° | 12.8   |
| 75°   | 8.5    |
| 77.5° | 8.5    |
| 80°   | 4.2    |
| 82.5° | 4.2    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)