

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: P204985

Luminaire Tested: **LE\_6B15D010 EC6B10209050 6LBCS1MMS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204985  
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 EC6B10209050 6LBCS1MMS  
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH CAST MATTE METALLIC SILVER 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: 1642.1 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

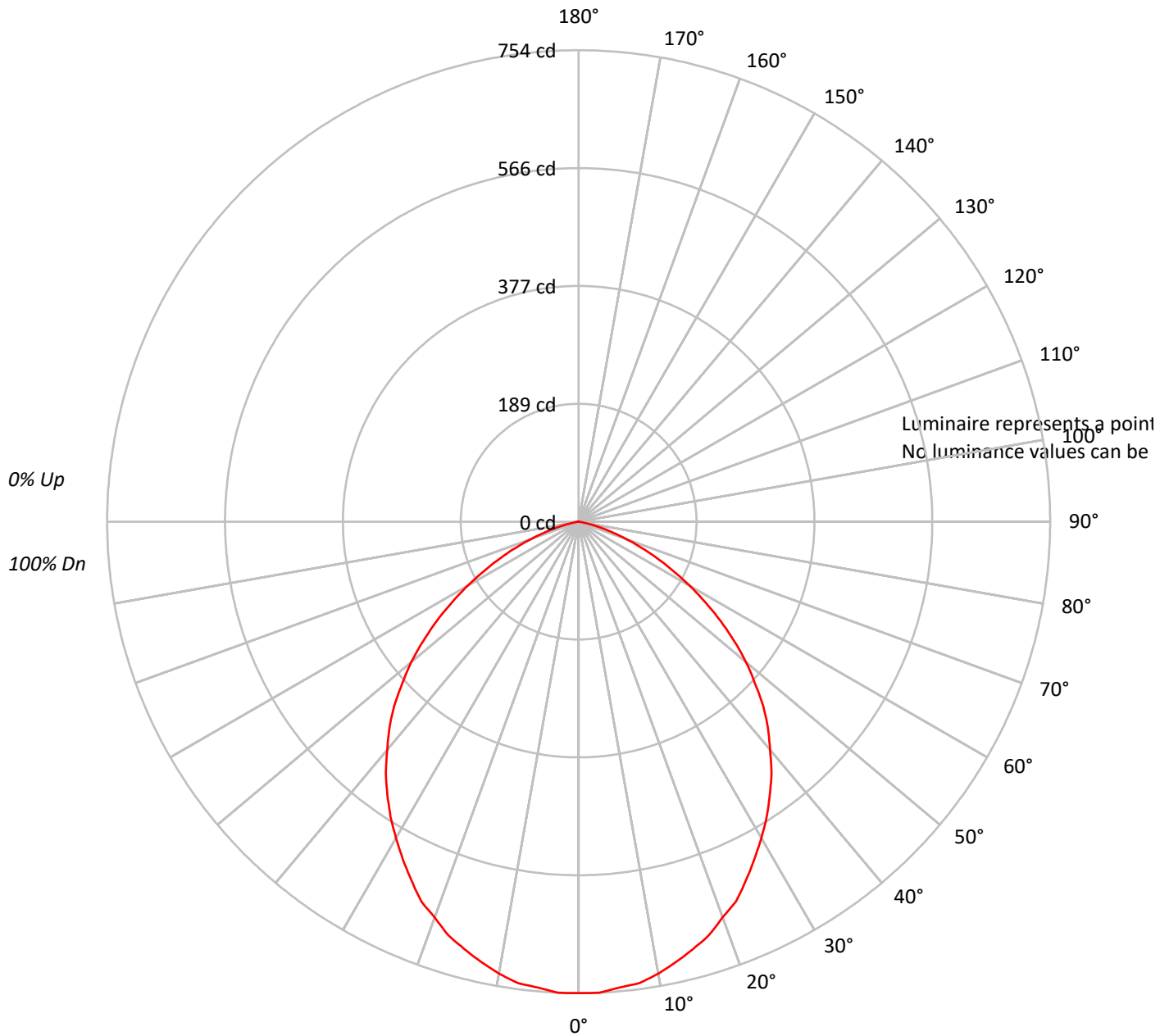
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





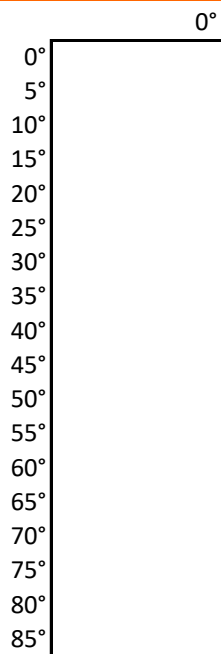
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |  |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
|-----|-----|-----|-----|-----|--|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|
| 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   | 111 | 107 | 103 | 100 |  | 108 | 105 | 101 | 98  |  | 100 | 98  | 95  |  | 97  | 94  | 92  |  | 93  | 91  | 90  |
| 2   | 102 | 95  | 89  | 84  |  | 100 | 93  | 88  | 83  |  | 90  | 85  | 81  |  | 86  | 83  | 79  |  | 83  | 80  | 78  |
| 3   | 94  | 85  | 77  | 72  |  | 92  | 83  | 76  | 71  |  | 80  | 74  | 70  |  | 77  | 73  | 69  |  | 75  | 71  | 67  |
| 4   | 87  | 76  | 68  | 62  |  | 84  | 74  | 67  | 61  |  | 72  | 66  | 61  |  | 70  | 64  | 60  |  | 68  | 63  | 59  |
| 5   | 80  | 68  | 60  | 54  |  | 78  | 67  | 59  | 54  |  | 65  | 58  | 53  |  | 63  | 57  | 53  |  | 61  | 56  | 52  |
| 6   | 74  | 62  | 54  | 48  |  | 72  | 61  | 53  | 47  |  | 59  | 52  | 47  |  | 58  | 51  | 47  |  | 56  | 51  | 46  |
| 7   | 69  | 56  | 48  | 42  |  | 67  | 56  | 48  | 42  |  | 54  | 47  | 42  |  | 53  | 46  | 42  |  | 51  | 46  | 41  |
| 8   | 64  | 52  | 44  | 38  |  | 63  | 51  | 43  | 38  |  | 50  | 43  | 38  |  | 48  | 42  | 38  |  | 47  | 42  | 37  |
| 9   | 60  | 48  | 40  | 35  |  | 59  | 47  | 40  | 34  |  | 46  | 39  | 34  |  | 45  | 39  | 34  |  | 44  | 38  | 34  |
| 10  | 57  | 44  | 36  | 31  |  | 55  | 43  | 36  | 31  |  | 43  | 36  | 31  |  | 42  | 35  | 31  |  | 41  | 35  | 31  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 71.1   | 4.3       |
| 10°-20°   | 199.4  | 12.1      |
| 20°-30°   | 291.3  | 17.7      |
| 30°-40°   | 333.1  | 20.3      |
| 40°-50°   | 320.2  | 19.5      |
| 50°-60°   | 247.2  | 15.1      |
| 60°-70°   | 138.0  | 8.4       |
| 70°-80°   | 40.1   | 2.4       |
| 80°-90°   | 1.7    | 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°    | 561.7  | 34.2      |
| 0°-40°    | 894.9  | 54.5      |
| 0°-60°    | 1462.2 | 89.0      |
| 0°-90°    | 1642.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1642.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 754 |      |
| 5°  | 748 | 71   |
| 15° | 707 | 199  |
| 25° | 633 | 291  |
| 35° | 533 | 333  |
| 45° | 417 | 320  |
| 55° | 277 | 247  |
| 65° | 138 | 138  |
| 75° | 35  | 40   |
| 85° | 1   | 2    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 754.1 |
| 2.5°  | 754.1 |
| 5°    | 747.8 |
| 7.5°  | 744.5 |
| 10°   | 733.9 |
| 12.5° | 721.1 |
| 15°   | 707.4 |
| 17.5° | 693.5 |
| 20°   | 673.4 |
| 22.5° | 657.5 |
| 25°   | 633.0 |
| 27.5° | 608.6 |
| 30°   | 584.1 |
| 32.5° | 559.8 |
| 35°   | 533.1 |
| 37.5° | 506.6 |
| 40°   | 475.9 |
| 42.5° | 448.2 |
| 45°   | 417.4 |
| 47.5° | 382.4 |
| 50°   | 349.4 |
| 52.5° | 313.4 |
| 55°   | 277.2 |
| 57.5° | 240.0 |
| 60°   | 205.0 |
| 62.5° | 170.0 |
| 65°   | 138.1 |
| 67.5° | 108.4 |
| 70°   | 80.8  |
| 72.5° | 56.2  |
| 75°   | 35.0  |
| 77.5° | 18.0  |
| 80°   | 6.4   |
| 82.5° | 2.1   |
| 85°   | 1.0   |
| 87.5° | 0.0   |
| 90°   | 0.0   |



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— 0°-180°







(END OF REPORT)