

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: P252814

Luminaire Tested: **LE\_6B40D010 EC6B30509050 6LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-2)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B40D010 EC6B30509050 6LBBA1MW  
Description: PORTFOLIO 6 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5790.1 lumens  
Efficiency: N/A  
Efficacy: 134.7 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

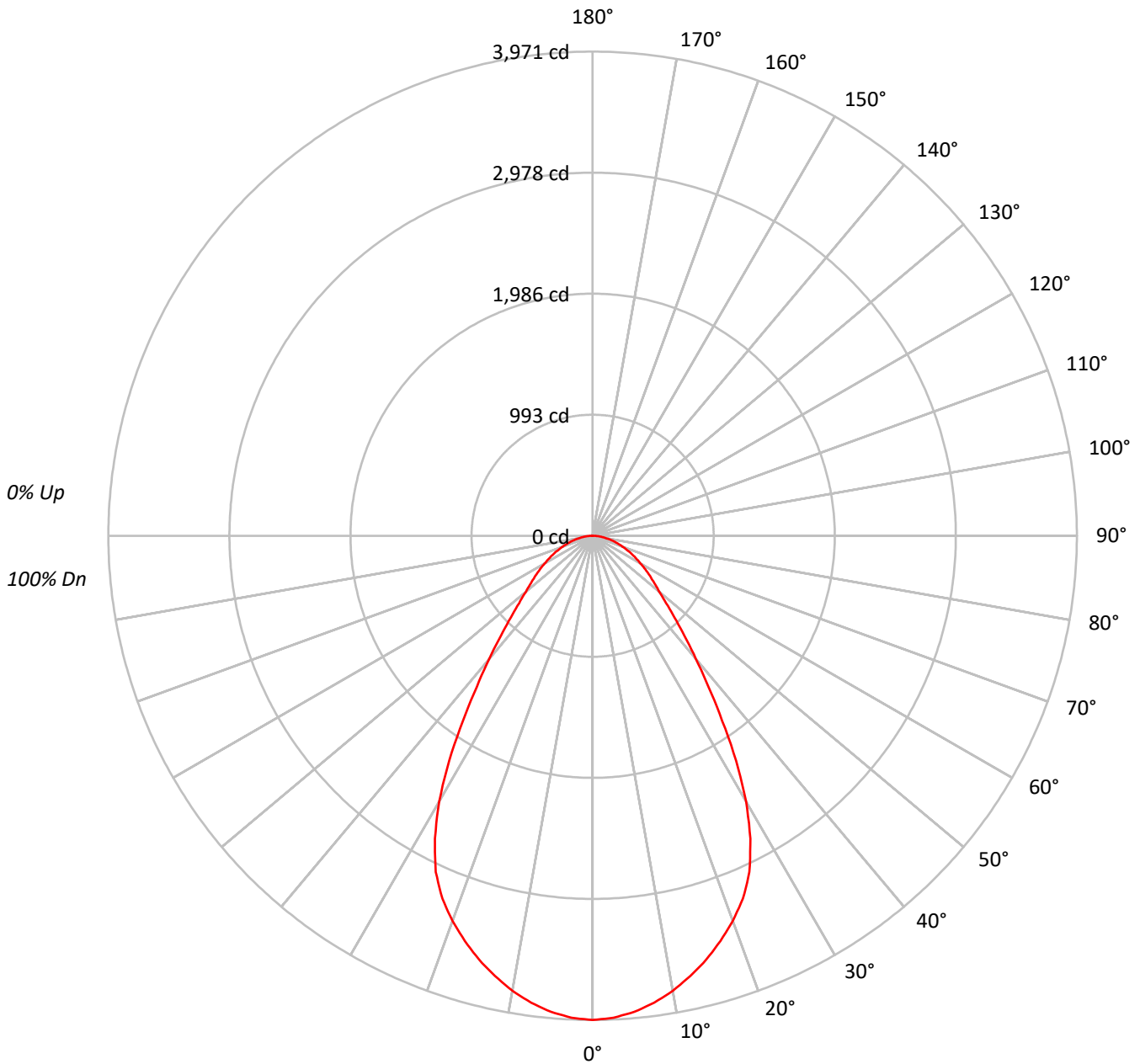
Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    | 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 |    |    |    | 100 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 88  |    |    |    | 88  |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 91  | 87  | 84  | 88  | 85  | 82  | 85  | 83  | 80  | 78  |    |    |    | 78  |
| 3   | 96  | 87  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |    | 69  |
| 4   | 90  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |    | 62  |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 60  | 70  | 64  | 59  | 68  | 63  | 58  | 66  | 62  | 58  | 56  |    |    |    | 56  |
| 6   | 78  | 67  | 60  | 54  | 77  | 66  | 59  | 54  | 65  | 58  | 54  | 63  | 57  | 53  | 62  | 57  | 53  | 51  |    |    |    | 51  |
| 7   | 74  | 62  | 55  | 49  | 72  | 61  | 54  | 49  | 60  | 53  | 49  | 59  | 53  | 49  | 57  | 52  | 48  | 47  |    |    |    | 47  |
| 8   | 69  | 58  | 50  | 45  | 68  | 57  | 50  | 45  | 56  | 49  | 45  | 55  | 49  | 45  | 53  | 48  | 44  | 43  |    |    |    | 43  |
| 9   | 65  | 54  | 46  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |    |    |    | 39  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |    | 37  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 259084 |
| 5°  | 256707 |
| 10° | 251050 |
| 15° | 243084 |
| 20° | 233270 |
| 25° | 218979 |
| 30° | 189494 |
| 35° | 147541 |
| 40° | 112146 |
| 45° | 87411  |
| 50° | 72509  |
| 55° | 65073  |
| 60° | 59238  |
| 65° | 54663  |
| 70° | 50244  |
| 75° | 46532  |
| 80° | 42079  |
| 85° | 38550  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 370.0  | 6.4       |
| 10°-20°   | 1011.2 | 17.5      |
| 20°-30°   | 1377.2 | 23.8      |
| 30°-40°   | 1165.4 | 20.1      |
| 40°-50°   | 747.6  | 12.9      |
| 50°-60°   | 514.4  | 8.9       |
| 60°-70°   | 351.5  | 6.1       |
| 70°-80°   | 195.6  | 3.4       |
| 80°-90°   | 57.3   | 1.0       |
| 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°    | 2758.4 | 47.6      |
| 0°-40°    | 3923.8 | 67.8      |
| 0°-60°    | 5185.8 | 89.6      |
| 0°-90°    | 5790.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5790.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3971 |      |
| 5°  | 3920 | 370  |
| 15° | 3599 | 1011 |
| 25° | 3042 | 1377 |
| 35° | 1852 | 1165 |
| 45° | 947  | 748  |
| 55° | 572  | 514  |
| 65° | 354  | 351  |
| 75° | 185  | 196  |
| 85° | 52   | 57   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3971.2 |
| 2.5°  | 3956.1 |
| 5°    | 3919.8 |
| 7.5°  | 3862.2 |
| 10°   | 3789.6 |
| 12.5° | 3698.9 |
| 15°   | 3599.0 |
| 17.5° | 3483.9 |
| 20°   | 3359.9 |
| 22.5° | 3220.6 |
| 25°   | 3042.0 |
| 27.5° | 2799.9 |
| 30°   | 2515.4 |
| 32.5° | 2188.4 |
| 35°   | 1852.5 |
| 37.5° | 1558.9 |
| 40°   | 1316.8 |
| 42.5° | 1113.9 |
| 45°   | 947.4  |
| 47.5° | 817.2  |
| 50°   | 714.4  |
| 52.5° | 635.6  |
| 55°   | 572.1  |
| 57.5° | 511.5  |
| 60°   | 454.0  |
| 62.5° | 402.6  |
| 65°   | 354.1  |
| 67.5° | 305.8  |
| 70°   | 263.4  |
| 72.5° | 221.0  |
| 75°   | 184.6  |
| 77.5° | 148.4  |
| 80°   | 112.0  |
| 82.5° | 81.8   |
| 85°   | 51.5   |
| 87.5° | 21.2   |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)