

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: P204085

Luminaire Tested: **LE\_6B40D010 EC6B30508027 6LBNMW1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P204085  
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\_6B40D010 EC6B30508027 6LBNMW1  
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT  
NARROW DISTRIBUTION WITH MATTE WHITE TRIM  
WATTAGE D010TR-43.02 W DE010-42.54 W D5LT-42.539 W DMX-41.87 W DL2-41.57  
W DL3-44.71 W DLE-39.33 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3605.7 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): 0.99 / 0.99 / 0.97  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

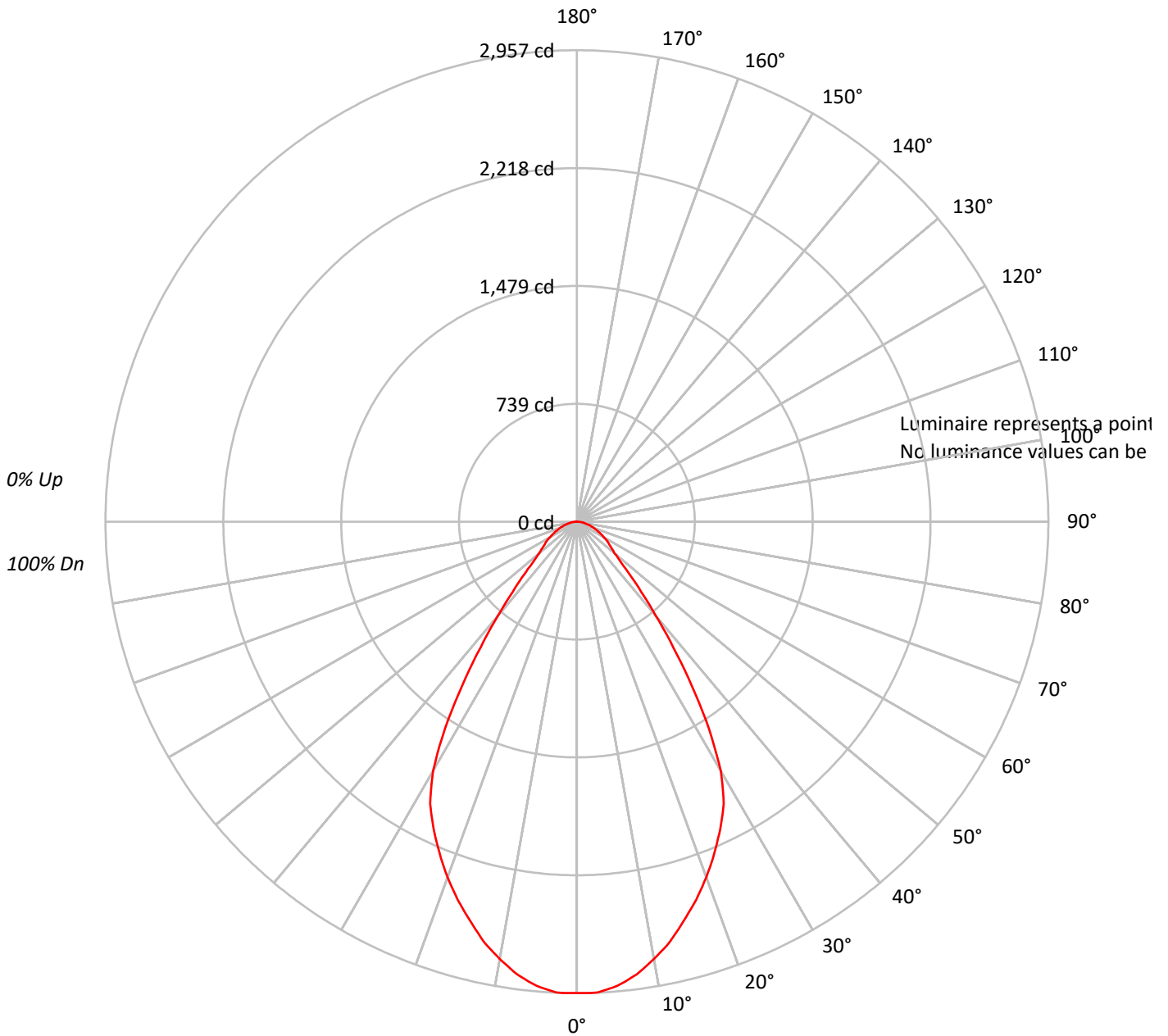
Input Watts (W): 41.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 108 | 105 | 103 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 97  | 95  | 95  | 93  | 92  | 90  |    |    |   |
| 2   | 105 | 99  | 94  | 90  | 102 | 97  | 92  | 89  | 94  | 90  | 87  | 91  | 87  | 85  | 88  | 85  | 83  | 81  |    |    |   |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |   |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |   |
| 5   | 87  | 77  | 70  | 64  | 85  | 76  | 69  | 64  | 74  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 61  |    |    |   |
| 6   | 81  | 71  | 64  | 59  | 80  | 70  | 63  | 59  | 68  | 63  | 58  | 67  | 62  | 58  | 66  | 61  | 57  | 56  |    |    |   |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 59  | 54  | 64  | 58  | 54  | 63  | 57  | 53  | 61  | 57  | 53  | 51  |    |    |   |
| 8   | 72  | 61  | 55  | 50  | 71  | 61  | 54  | 50  | 60  | 54  | 49  | 59  | 53  | 49  | 58  | 53  | 49  | 47  |    |    |   |
| 9   | 69  | 58  | 51  | 46  | 67  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 46  | 44  |    |    |   |
| 10  | 65  | 54  | 47  | 43  | 64  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 43  | 51  | 46  | 43  | 41  |    |    |   |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 274.6  | 7.6       |
| 10°-20°   | 727.8  | 20.2      |
| 20°-30°   | 971.7  | 26.9      |
| 30°-40°   | 783.9  | 21.7      |
| 40°-50°   | 375.7  | 10.4      |
| 50°-60°   | 222.7  | 6.2       |
| 60°-70°   | 148.1  | 4.1       |
| 70°-80°   | 79.3   | 2.2       |
| 80°-90°   | 21.8   | 0.6       |
| 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°    | 1974.1 | 54.7      |
| 0°-40°    | 2758.0 | 76.5      |
| 0°-60°    | 3356.4 | 93.1      |
| 0°-90°    | 3605.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3605.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2957 |      |
| 5°  | 2923 | 275  |
| 15° | 2590 | 728  |
| 25° | 2126 | 972  |
| 35° | 1255 | 784  |
| 45° | 464  | 376  |
| 55° | 246  | 223  |
| 65° | 149  | 148  |
| 75° | 74   | 79   |
| 85° | 17   | 22   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2957.0 |
| 2.5°  | 2957.0 |
| 5°    | 2922.6 |
| 7.5°  | 2865.2 |
| 10°   | 2785.0 |
| 12.5° | 2699.1 |
| 15°   | 2590.2 |
| 17.5° | 2487.1 |
| 20°   | 2372.5 |
| 22.5° | 2252.1 |
| 25°   | 2126.0 |
| 27.5° | 1994.2 |
| 30°   | 1805.1 |
| 32.5° | 1541.5 |
| 35°   | 1255.0 |
| 37.5° | 991.4  |
| 40°   | 767.9  |
| 42.5° | 596.0  |
| 45°   | 464.1  |
| 47.5° | 366.8  |
| 50°   | 309.5  |
| 52.5° | 275.1  |
| 55°   | 246.4  |
| 57.5° | 223.5  |
| 60°   | 194.9  |
| 62.5° | 171.9  |
| 65°   | 149.0  |
| 67.5° | 126.1  |
| 70°   | 108.9  |
| 72.5° | 91.8   |
| 75°   | 74.5   |
| 77.5° | 57.2   |
| 80°   | 45.9   |
| 82.5° | 34.4   |
| 85°   | 17.2   |
| 87.5° | 5.8    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)