

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: P252791

Luminaire Tested: **LE\_6B30D010 EC6B30508027 6LBBA1MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252791  
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\_6B30D010 EC6B30508027 6LBBA1MW  
Description: PORTFOLIO 6 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4495.1 lumens  
Efficiency: N/A  
Efficacy: 160.5 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

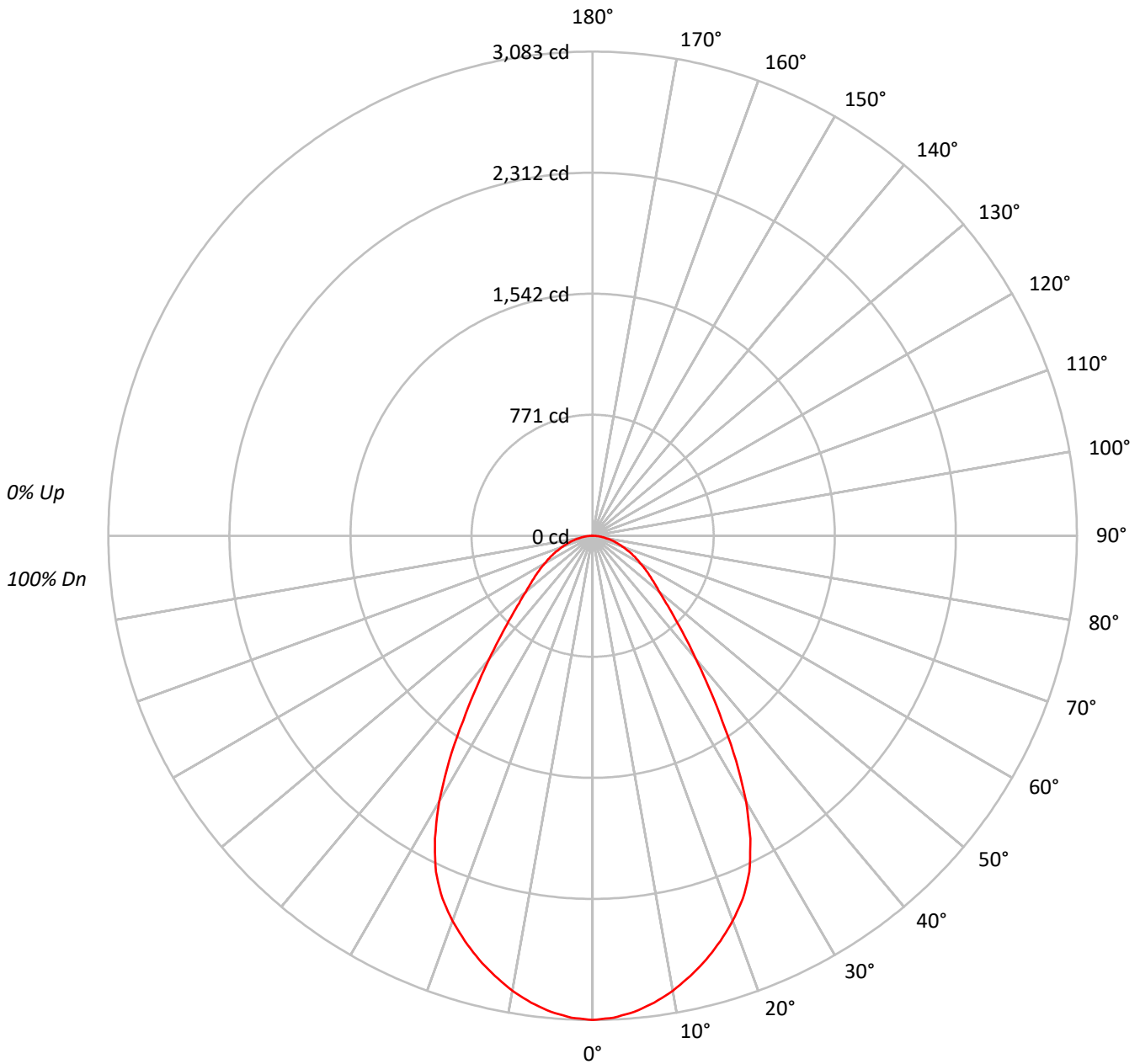
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 201137 |
| 5°  | 199292 |
| 10° | 194899 |
| 15° | 188713 |
| 20° | 181095 |
| 25° | 170000 |
| 30° | 147111 |
| 35° | 114536 |
| 40° | 87056  |
| 45° | 67860  |
| 50° | 56290  |
| 55° | 50514  |
| 60° | 45995  |
| 65° | 42437  |
| 70° | 39009  |
| 75° | 36147  |
| 80° | 32686  |
| 85° | 29942  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 287.2  | 6.4       |
| 10°-20°   | 785.0  | 17.5      |
| 20°-30°   | 1069.2 | 23.8      |
| 30°-40°   | 904.7  | 20.1      |
| 40°-50°   | 580.4  | 12.9      |
| 50°-60°   | 399.4  | 8.9       |
| 60°-70°   | 272.8  | 6.1       |
| 70°-80°   | 151.8  | 3.4       |
| 80°-90°   | 44.5   | 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°    | 2141.4 | 47.6      |
| 0°-40°    | 3046.1 | 67.8      |
| 0°-60°    | 4025.9 | 89.6      |
| 0°-90°    | 4495.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4495.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3083 |      |
| 5°  | 3043 | 287  |
| 15° | 2794 | 785  |
| 25° | 2362 | 1069 |
| 35° | 1438 | 905  |
| 45° | 736  | 580  |
| 55° | 444  | 399  |
| 65° | 275  | 273  |
| 75° | 143  | 152  |
| 85° | 40   | 44   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 3083.0 |
| 2.5°  | 3071.2 |
| 5°    | 3043.1 |
| 7.5°  | 2998.5 |
| 10°   | 2942.0 |
| 12.5° | 2871.5 |
| 15°   | 2794.0 |
| 17.5° | 2704.8 |
| 20°   | 2608.4 |
| 22.5° | 2500.2 |
| 25°   | 2361.6 |
| 27.5° | 2173.6 |
| 30°   | 1952.8 |
| 32.5° | 1699.0 |
| 35°   | 1438.1 |
| 37.5° | 1210.1 |
| 40°   | 1022.2 |
| 42.5° | 864.8  |
| 45°   | 735.5  |
| 47.5° | 634.5  |
| 50°   | 554.6  |
| 52.5° | 493.5  |
| 55°   | 444.1  |
| 57.5° | 397.1  |
| 60°   | 352.5  |
| 62.5° | 312.5  |
| 65°   | 274.9  |
| 67.5° | 237.4  |
| 70°   | 204.5  |
| 72.5° | 171.5  |
| 75°   | 143.4  |
| 77.5° | 115.1  |
| 80°   | 87.0   |
| 82.5° | 63.5   |
| 85°   | 40.0   |
| 87.5° | 16.5   |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)