

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244369

Luminaire Tested: **LD8B15D010 ER8B159730 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244369  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B15D010 ER8B159730 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1043.0 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

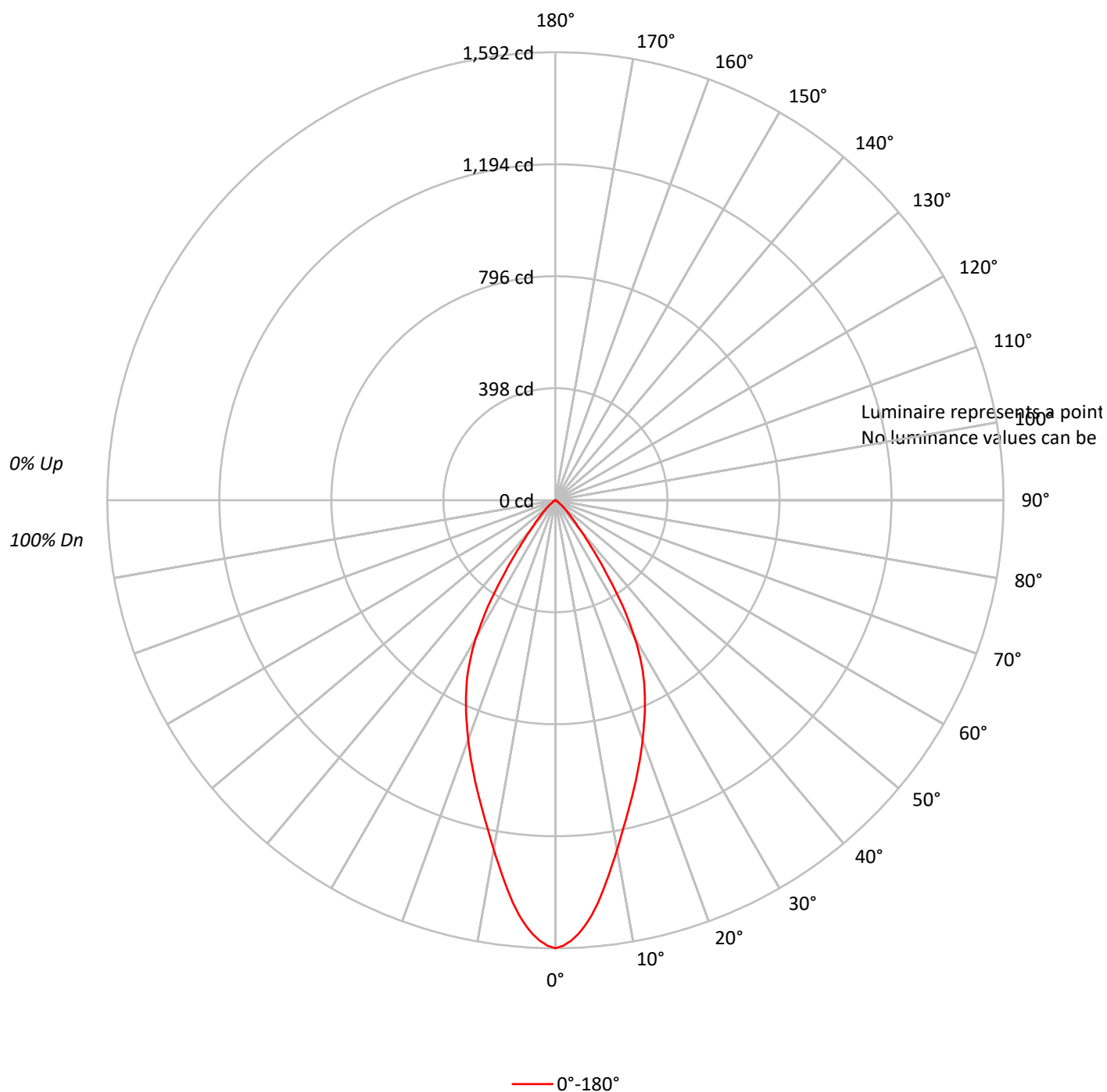
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





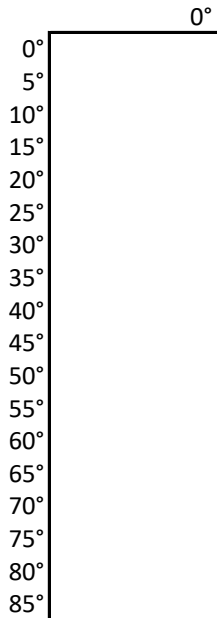
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 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 |  | 100 |
| 1   | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 |  | 101 | 100 | 98  |  | 94  |
| 2   | 108 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 99  | 96  | 93  |  | 96  | 93  | 91  |  | 88  |
| 3   | 103 | 97  | 92  | 88  | 101 | 95  | 91  | 87  | 93  | 89  | 86  |  | 90  | 87  | 85  |  | 82  |
| 4   | 98  | 91  | 85  | 81  | 96  | 90  | 85  | 81  | 87  | 83  | 80  |  | 85  | 82  | 79  |  | 76  |
| 5   | 93  | 85  | 79  | 75  | 92  | 84  | 79  | 75  | 82  | 78  | 74  |  | 81  | 77  | 74  |  | 72  |
| 6   | 89  | 80  | 74  | 70  | 87  | 79  | 74  | 70  | 78  | 73  | 69  |  | 76  | 72  | 69  |  | 67  |
| 7   | 85  | 76  | 70  | 66  | 83  | 75  | 69  | 65  | 74  | 69  | 65  |  | 72  | 68  | 65  |  | 63  |
| 8   | 81  | 71  | 66  | 62  | 79  | 71  | 65  | 61  | 70  | 65  | 61  |  | 69  | 64  | 61  |  | 59  |
| 9   | 77  | 68  | 62  | 58  | 76  | 67  | 62  | 58  | 66  | 61  | 58  |  | 65  | 61  | 58  |  | 56  |
| 10  | 74  | 64  | 59  | 55  | 73  | 64  | 58  | 55  | 63  | 58  | 55  |  | 62  | 58  | 54  |  | 53  |

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





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.9  | 12.8      |
| 10°-20°   | 299.2  | 28.7      |
| 20°-30°   | 340.2  | 32.6      |
| 30°-40°   | 199.8  | 19.2      |
| 40°-50°   | 53.6   | 5.1       |
| 50°-60°   | 12.7   | 1.2       |
| 60°-70°   | 2.9    | 0.3       |
| 70°-80°   | 0.7    | 0.1       |
| 80°-90°   | 0.1    | 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°    | 773.3  | 74.1      |
| 0°-40°    | 973.1  | 93.3      |
| 0°-60°    | 1039.4 | 99.7      |
| 0°-90°    | 1043.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1043.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1592 |      |
| 5°  | 1479 | 134  |
| 15° | 1070 | 299  |
| 25° | 751  | 340  |
| 35° | 311  | 200  |
| 45° | 64   | 54   |
| 55° | 13   | 13   |
| 65° | 3    | 3    |
| 75° | 1    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1592.1 |
| 1°    | 1583.3 |
| 2°    | 1567.1 |
| 3°    | 1544.2 |
| 4°    | 1514.7 |
| 5°    | 1479.4 |
| 6°    | 1439.6 |
| 7°    | 1394.5 |
| 8°    | 1349.5 |
| 9°    | 1304.0 |
| 10°   | 1260.7 |
| 11°   | 1218.4 |
| 12°   | 1178.6 |
| 13°   | 1141.6 |
| 14°   | 1104.6 |
| 15°   | 1070.1 |
| 16°   | 1036.3 |
| 17°   | 1002.8 |
| 18°   | 970.4  |
| 19°   | 937.7  |
| 20°   | 905.6  |
| 21°   | 873.6  |
| 22°   | 842.9  |
| 23°   | 812.6  |
| 24°   | 781.6  |
| 25°   | 750.6  |
| 26°   | 718.6  |
| 27°   | 683.7  |
| 28°   | 647.1  |
| 29°   | 606.9  |
| 30°   | 563.6  |
| 32.5° | 442.1  |
| 35°   | 311.0  |
| 37.5° | 205.0  |
| 40°   | 134.2  |
| 42.5° | 92.6   |
| 45°   | 64.1   |
| 47.5° | 44.0   |
| 50°   | 29.2   |
| 52.5° | 19.0   |
| 55°   | 12.7   |
| 57.5° | 8.5    |
| 60°   | 5.6    |
| 62.5° | 3.9    |
| 65°   | 2.8    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 67.5° | 1.8 |
| 70°   | 1.1 |
| 72.5° | 0.7 |
| 75°   | 0.7 |
| 77.5° | 0.4 |
| 80°   | 0.4 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

(END OF REPORT)