

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: FAIL-SAFE

Report Number: P365984

Luminaire Tested: **FLD6BX15D010-FEU6B12-8027-F6LBXVM1-WMH-BTR89BV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX15D010-FEU6B12-8027-F6LBXVM1-WMH-BTR89BV  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, WARM HAZE REFLECTOR,  
BOTTOM TRIM ACRYLIC, CLEAR 0.125", 1500LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1086.9 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.8  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

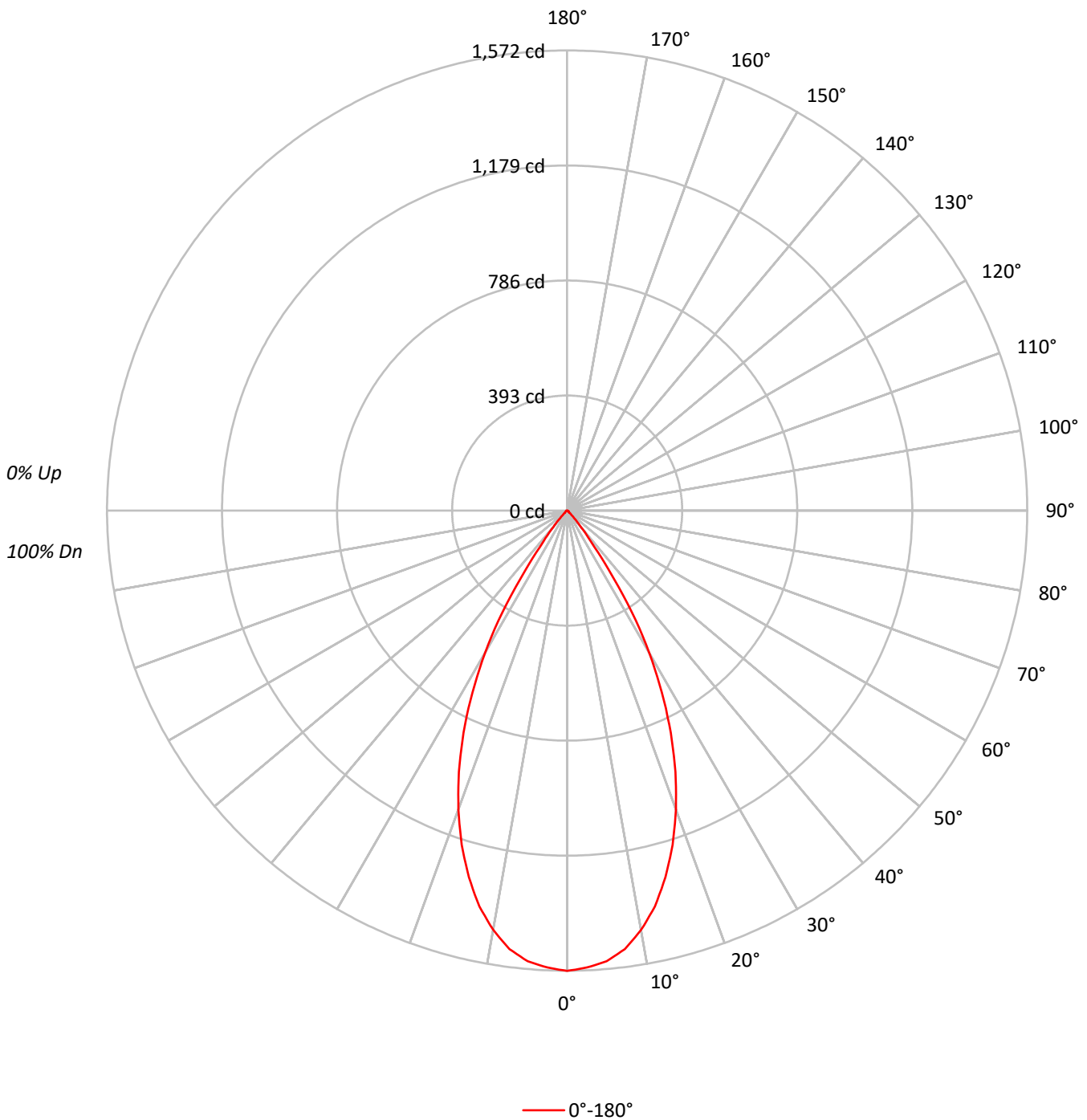
Input Watts (W): 14.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2   | 109 | 104 | 100 | 97  | 106 | 102 | 99  | 96  | 99  | 96  | 94  | 96  | 94  | 92  | 93  | 92  | 90  | 88  |
| 3   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 89  | 94  | 90  | 87  | 91  | 88  | 86  | 89  | 87  | 85  | 83  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 82  | 89  | 85  | 81  | 87  | 83  | 80  | 85  | 82  | 80  | 78  |
| 5   | 94  | 87  | 81  | 77  | 93  | 86  | 81  | 77  | 84  | 80  | 76  | 82  | 79  | 76  | 81  | 78  | 75  | 74  |
| 6   | 90  | 82  | 76  | 72  | 89  | 81  | 76  | 72  | 80  | 75  | 72  | 78  | 74  | 71  | 77  | 74  | 71  | 69  |
| 7   | 86  | 78  | 72  | 68  | 85  | 77  | 72  | 68  | 76  | 71  | 68  | 75  | 70  | 67  | 74  | 70  | 67  | 66  |
| 8   | 82  | 74  | 68  | 64  | 81  | 73  | 68  | 64  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 63  | 62  |
| 9   | 79  | 70  | 65  | 61  | 78  | 70  | 64  | 61  | 69  | 64  | 61  | 68  | 63  | 60  | 67  | 63  | 60  | 59  |
| 10  | 76  | 67  | 61  | 58  | 75  | 66  | 61  | 58  | 65  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 56  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 112594 |
| 5°  | 111076 |
| 10° | 105730 |
| 15° | 96114  |
| 20° | 82765  |
| 25° | 66166  |
| 30° | 46391  |
| 35° | 21581  |
| 40° | 6814   |
| 45° | 2126   |
| 50° | 936    |
| 55° | 874    |
| 60° | 802    |
| 65° | 712    |
| 70° | 775    |
| 75° | 913    |
| 80° | 1155   |
| 85° | 1890   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 144.7  | 13.3      |
| 10°-20°   | 359.5  | 33.1      |
| 20°-30°   | 378.0  | 34.8      |
| 30°-40°   | 167.7  | 15.4      |
| 40°-50°   | 21.0   | 1.9       |
| 50°-60°   | 6.3    | 0.6       |
| 60°-70°   | 4.4    | 0.4       |
| 70°-80°   | 3.5    | 0.3       |
| 80°-90°   | 2.0    | 0.2       |
| 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°    | 882.2  | 81.2      |
| 0°-40°    | 1049.8 | 96.6      |
| 0°-60°    | 1077.1 | 99.1      |
| 0°-90°    | 1086.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1086.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1572 |      |
| 5°  | 1545 | 145  |
| 15° | 1297 | 360  |
| 25° | 838  | 378  |
| 35° | 247  | 168  |
| 45° | 21   | 21   |
| 55° | 7    | 6    |
| 65° | 4    | 4    |
| 75° | 3    | 3    |
| 85° | 2    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1572.5 |
| 2.5°  | 1562.2 |
| 5°    | 1545.4 |
| 7.5°  | 1510.8 |
| 10°   | 1454.2 |
| 12.5° | 1385.0 |
| 15°   | 1296.6 |
| 17.5° | 1197.0 |
| 20°   | 1086.2 |
| 22.5° | 966.0  |
| 25°   | 837.5  |
| 27.5° | 700.9  |
| 30°   | 561.1  |
| 32.5° | 412.9  |
| 35°   | 246.9  |
| 37.5° | 131.4  |
| 40°   | 72.9   |
| 42.5° | 39.7   |
| 45°   | 21.0   |
| 47.5° | 10.3   |
| 50°   | 8.4    |
| 52.5° | 7.5    |
| 55°   | 7.0    |
| 57.5° | 6.5    |
| 60°   | 5.6    |
| 62.5° | 5.1    |
| 65°   | 4.2    |
| 67.5° | 3.7    |
| 70°   | 3.7    |
| 72.5° | 3.3    |
| 75°   | 3.3    |
| 77.5° | 3.3    |
| 80°   | 2.8    |
| 82.5° | 2.3    |
| 85°   | 2.3    |
| 87.5° | 1.4    |
| 90°   | 0.0    |

(END OF REPORT)