

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: P365614

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8027-F6LBXVM1-MW-BL89BV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-34)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX50D010TE-FEU6B35-8027-F6LBXVM1-MW-BL89BV  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, MATTE WHITE REFLECTOR, BOTTOM LENS ACRYLIC, CLEAR 0.125", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3964.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.95  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
CIE Type: Direct

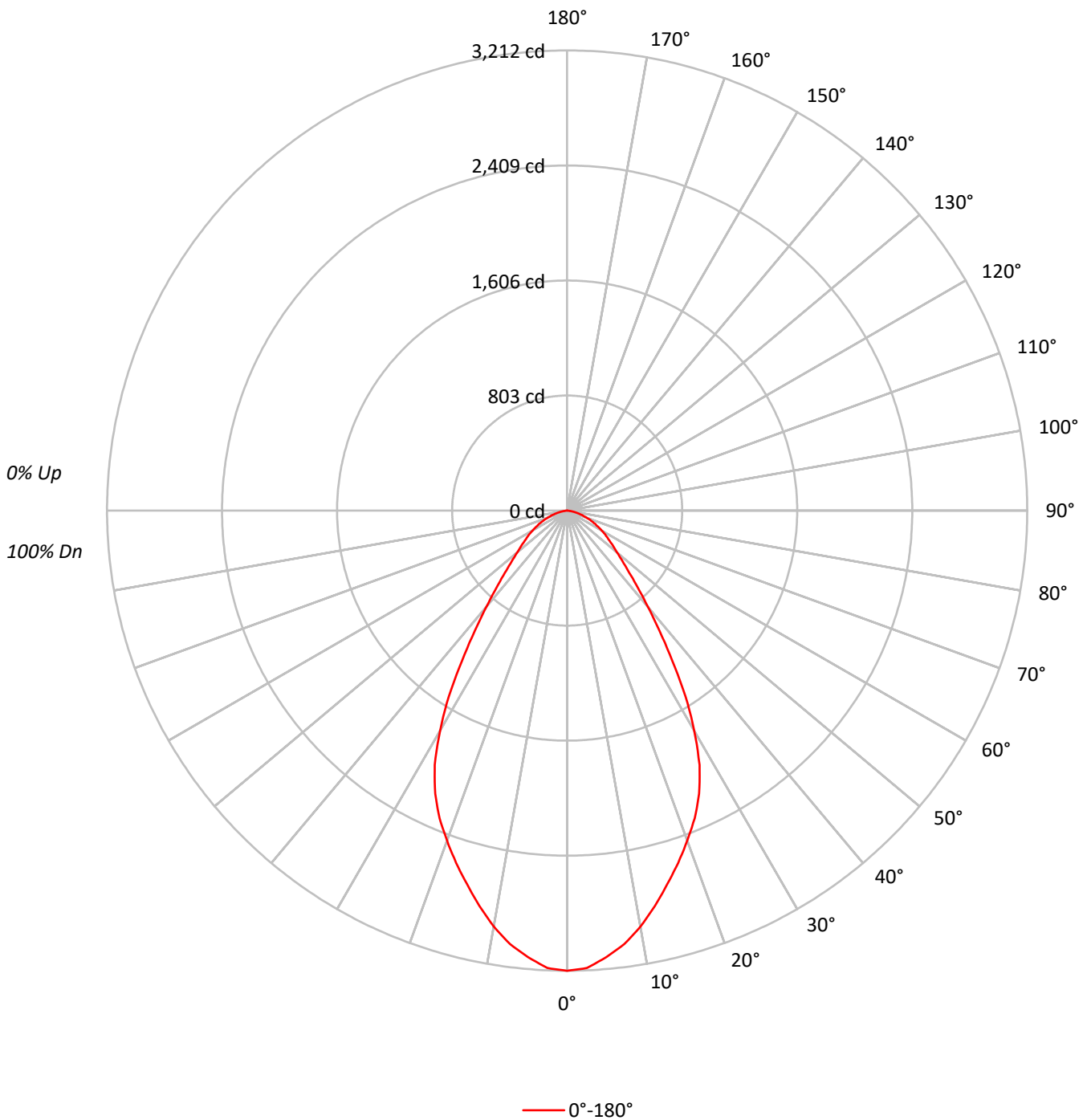
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 80  | 74  | 69  | 78  | 73  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 59  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 49  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |
| 9   | 67  | 56  | 49  | 44  | 66  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 47  | 44  | 42  |
| 10  | 64  | 52  | 46  | 41  | 62  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 49  | 44  | 41  | 39  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 87748 |
| 5°  | 85793 |
| 10° | 81793 |
| 15° | 76359 |
| 20° | 71258 |
| 25° | 65697 |
| 30° | 55950 |
| 35° | 42566 |
| 40° | 31161 |
| 45° | 23707 |
| 50° | 19263 |
| 55° | 16911 |
| 60° | 15198 |
| 65° | 13431 |
| 70° | 11373 |
| 75° | 8981  |
| 80° | 6182  |
| 85° | 2570  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 293.2  | 7.4       |
| 10°-20°   | 758.5  | 19.1      |
| 20°-30°   | 988.4  | 24.9      |
| 30°-40°   | 804.7  | 20.3      |
| 40°-50°   | 485.3  | 12.2      |
| 50°-60°   | 321.7  | 8.1       |
| 60°-70°   | 206.5  | 5.2       |
| 70°-80°   | 92.0   | 2.3       |
| 80°-90°   | 13.8   | 0.3       |
| 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°    | 2040.1 | 51.5      |
| 0°-40°    | 2844.8 | 71.8      |
| 0°-60°    | 3651.8 | 92.1      |
| 0°-90°    | 3964.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3964.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3212 |      |
| 5°  | 3129 | 293  |
| 15° | 2700 | 758  |
| 25° | 2180 | 988  |
| 35° | 1276 | 805  |
| 45° | 614  | 485  |
| 55° | 355  | 322  |
| 65° | 208  | 206  |
| 75° | 85   | 92   |
| 85° | 8    | 14   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3212.4 |
| 2.5°  | 3196.0 |
| 5°    | 3128.9 |
| 7.5°  | 3052.0 |
| 10°   | 2948.9 |
| 12.5° | 2826.2 |
| 15°   | 2700.2 |
| 17.5° | 2577.5 |
| 20°   | 2451.4 |
| 22.5° | 2325.4 |
| 25°   | 2179.8 |
| 27.5° | 2001.4 |
| 30°   | 1773.9 |
| 32.5° | 1536.7 |
| 35°   | 1276.5 |
| 37.5° | 1058.8 |
| 40°   | 873.9  |
| 42.5° | 728.2  |
| 45°   | 613.7  |
| 47.5° | 523.7  |
| 50°   | 453.3  |
| 52.5° | 402.6  |
| 55°   | 355.1  |
| 57.5° | 317.5  |
| 60°   | 278.2  |
| 62.5° | 242.2  |
| 65°   | 207.8  |
| 67.5° | 175.1  |
| 70°   | 142.4  |
| 72.5° | 112.9  |
| 75°   | 85.1   |
| 77.5° | 60.5   |
| 80°   | 39.3   |
| 82.5° | 21.3   |
| 85°   | 8.2    |
| 87.5° | 1.6    |
| 90°   | 0.0    |

(END OF REPORT)