

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: P366460

Luminaire Tested: **FLD6BX60D010TE-FEU6B67-8035-F6LBXVM1-WMH-BL89BV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P366460  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-45)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX60D010TE-FEU6B67-8035-F6LBXVM1-WMH-BL89BV  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, WARM HAZE REFLECTOR, BOTTOM LENS ACRYLIC, CLEAR 0.125", 6000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5589.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
CIE Type: Direct

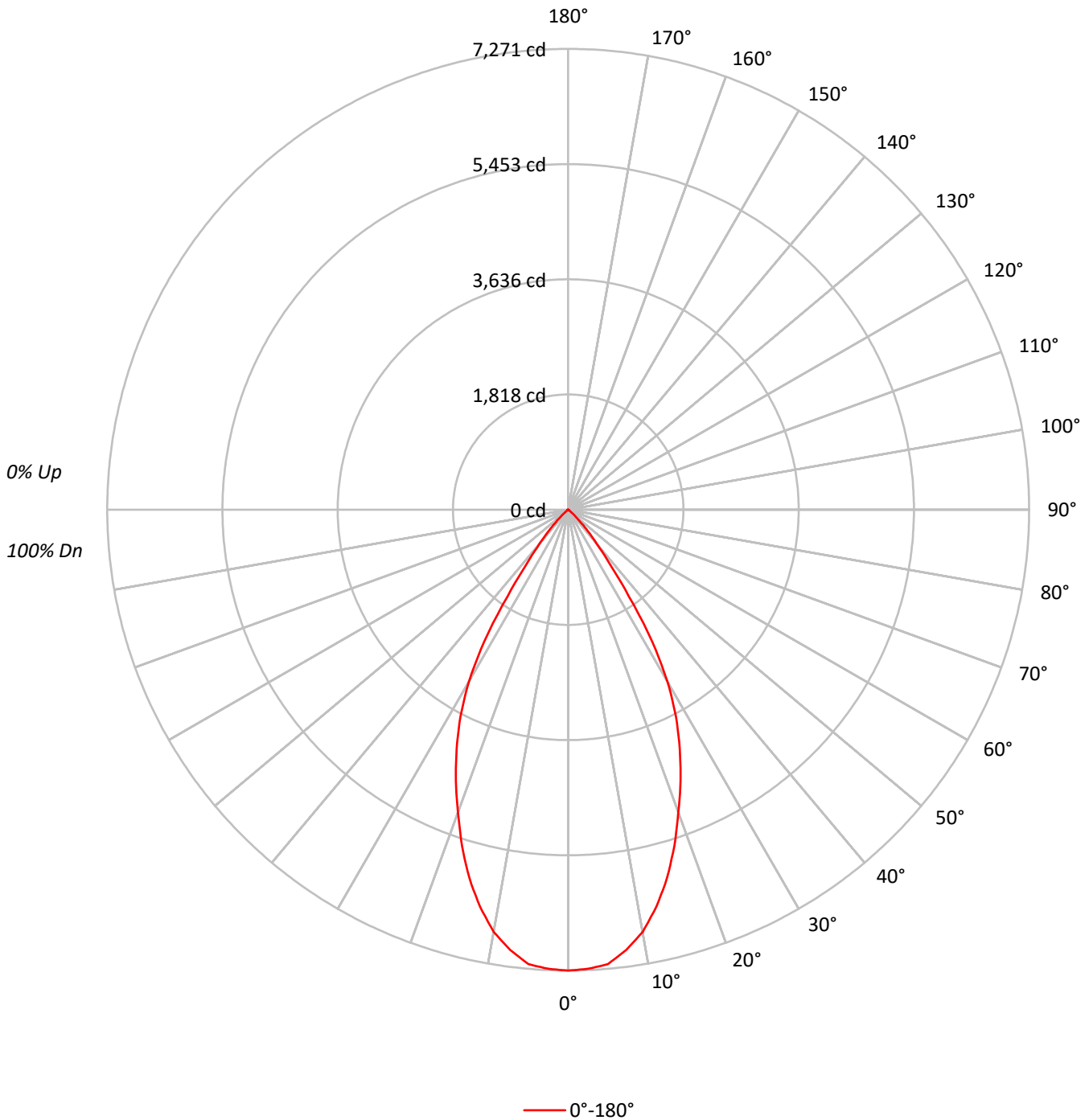
Input Watts (W): 58.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2   | 108 | 104 | 100 | 97  | 106 | 102 | 99  | 96  | 99  | 96  | 93  | 96  | 94  | 91  | 93  | 91  | 90  | 88  |
| 3   | 103 | 97  | 92  | 89  | 101 | 96  | 91  | 88  | 93  | 89  | 86  | 91  | 88  | 85  | 88  | 86  | 84  | 82  |
| 4   | 98  | 91  | 86  | 82  | 97  | 90  | 85  | 81  | 88  | 84  | 80  | 86  | 82  | 79  | 84  | 81  | 78  | 77  |
| 5   | 94  | 86  | 80  | 76  | 92  | 85  | 79  | 76  | 83  | 78  | 75  | 81  | 77  | 74  | 80  | 76  | 74  | 72  |
| 6   | 89  | 81  | 75  | 71  | 88  | 80  | 74  | 71  | 78  | 74  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 68  |
| 7   | 85  | 76  | 70  | 66  | 84  | 75  | 70  | 66  | 74  | 69  | 66  | 73  | 69  | 65  | 72  | 68  | 65  | 64  |
| 8   | 81  | 72  | 66  | 62  | 80  | 71  | 66  | 62  | 70  | 65  | 62  | 69  | 65  | 62  | 68  | 64  | 61  | 60  |
| 9   | 77  | 68  | 62  | 59  | 76  | 68  | 62  | 58  | 67  | 62  | 58  | 66  | 61  | 58  | 65  | 61  | 58  | 57  |
| 10  | 74  | 65  | 59  | 55  | 73  | 64  | 59  | 55  | 63  | 58  | 55  | 63  | 58  | 55  | 62  | 58  | 55  | 53  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 198615 |
| 5°  | 197306 |
| 10° | 187602 |
| 15° | 170236 |
| 20° | 147679 |
| 25° | 125541 |
| 30° | 98793  |
| 35° | 55654  |
| 40° | 24996  |
| 45° | 10391  |
| 50° | 3119   |
| 55° | 871    |
| 60° | 557    |
| 65° | 394    |
| 70° | 327    |
| 75° | 433    |
| 80° | 315    |
| 85° | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 672.0  | 12.0      |
| 10°-20°   | 1670.9 | 29.9      |
| 20°-30°   | 1892.0 | 33.9      |
| 30°-40°   | 1084.8 | 19.4      |
| 40°-50°   | 235.7  | 4.2       |
| 50°-60°   | 23.1   | 0.4       |
| 60°-70°   | 6.8    | 0.1       |
| 70°-80°   | 3.5    | 0.1       |
| 80°-90°   | 0.3    | 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°    | 4234.8 | 75.8      |
| 0°-40°    | 5319.6 | 95.2      |
| 0°-60°    | 5578.4 | 99.8      |
| 0°-90°    | 5589.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5589.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 7271 |      |
| 5°  | 7196 | 672  |
| 15° | 6020 | 1671 |
| 25° | 4165 | 1892 |
| 35° | 1669 | 1085 |
| 45° | 269  | 236  |
| 55° | 18   | 23   |
| 65° | 6    | 7    |
| 75° | 4    | 3    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 7271.2 |
| 2.5°  | 7250.8 |
| 5°    | 7195.8 |
| 7.5°  | 7006.2 |
| 10°   | 6763.7 |
| 12.5° | 6417.3 |
| 15°   | 6019.9 |
| 17.5° | 5563.4 |
| 20°   | 5080.4 |
| 22.5° | 4628.0 |
| 25°   | 4165.4 |
| 27.5° | 3676.3 |
| 30°   | 3132.2 |
| 32.5° | 2467.9 |
| 35°   | 1669.0 |
| 37.5° | 1055.6 |
| 40°   | 701.0  |
| 42.5° | 448.3  |
| 45°   | 269.0  |
| 47.5° | 146.7  |
| 50°   | 73.4   |
| 52.5° | 30.6   |
| 55°   | 18.3   |
| 57.5° | 14.3   |
| 60°   | 10.2   |
| 62.5° | 8.2    |
| 65°   | 6.1    |
| 67.5° | 6.1    |
| 70°   | 4.1    |
| 72.5° | 4.1    |
| 75°   | 4.1    |
| 77.5° | 2.0    |
| 80°   | 2.0    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)