

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: P364693

Luminaire Tested: **FLD6BX20D010-FEU6B12-8050-F6LBXVM1-LI-BL86**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P364693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-43)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX20D010-FEU6B12-8050-F6LBXVM1-LI-BL86  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, SPECULAR CLEAR REFLECTOR,  
BOTTOM LENS POLYCARBONATE, CLEAR 0.250", 2000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1854.0 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.82  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
CIE Type: Direct

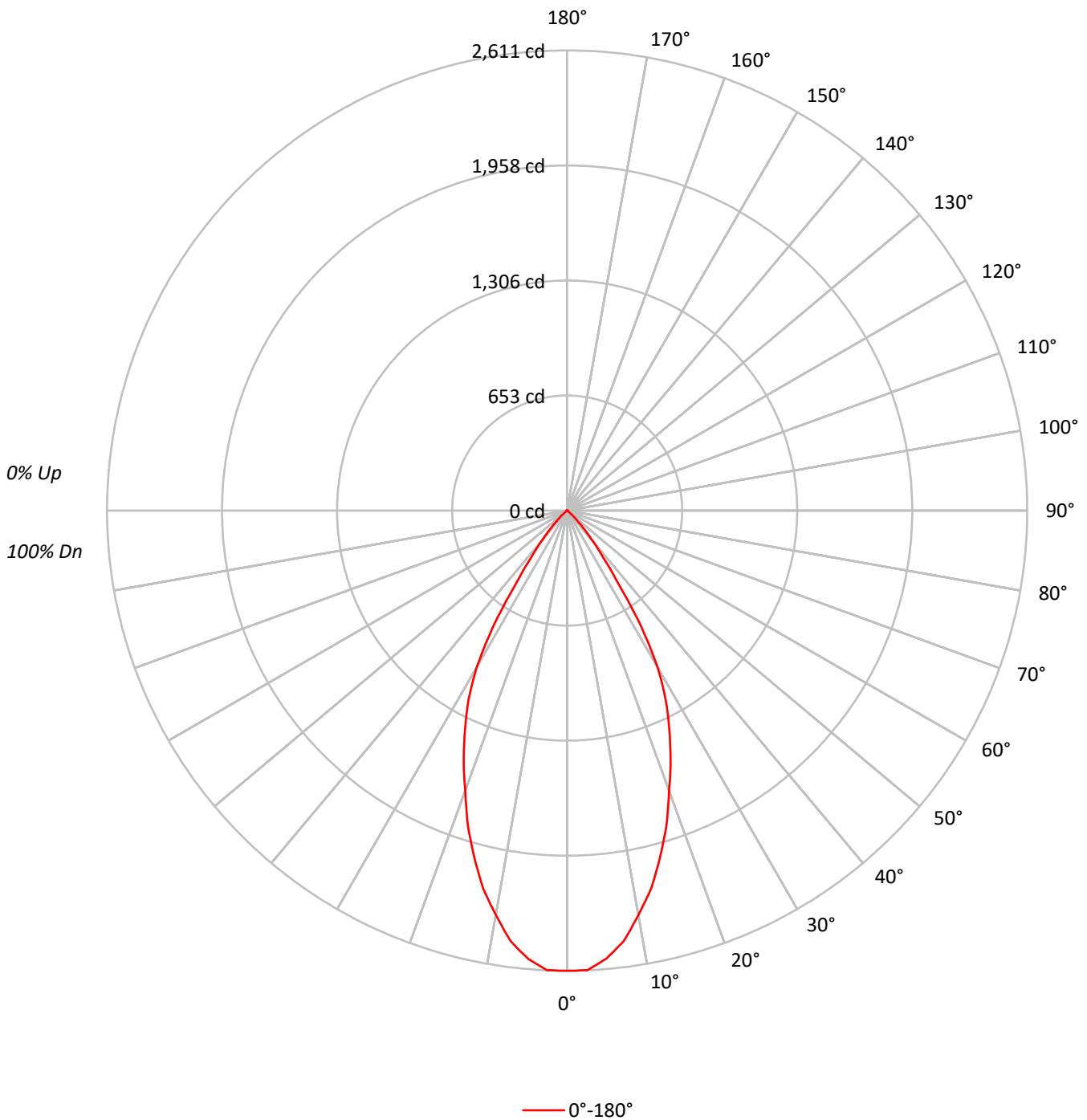
Input Watts (W): 20.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 91  | 90  | 88  |
| 3   | 103 | 97  | 93  | 89  | 101 | 96  | 92  | 88  | 93  | 90  | 87  |  | 91  | 88  | 85  |  | 89  | 86  | 84  | 83  |
| 4   | 99  | 91  | 86  | 82  | 97  | 90  | 85  | 82  | 88  | 84  | 81  |  | 86  | 83  | 80  |  | 84  | 81  | 79  | 77  |
| 5   | 94  | 86  | 80  | 76  | 92  | 85  | 80  | 76  | 83  | 79  | 75  |  | 82  | 78  | 75  |  | 80  | 77  | 74  | 73  |
| 6   | 90  | 81  | 75  | 71  | 88  | 80  | 75  | 71  | 79  | 74  | 71  |  | 77  | 73  | 70  |  | 76  | 73  | 70  | 68  |
| 7   | 85  | 77  | 71  | 67  | 84  | 76  | 71  | 67  | 75  | 70  | 66  |  | 74  | 69  | 66  |  | 72  | 69  | 66  | 64  |
| 8   | 82  | 72  | 67  | 63  | 80  | 72  | 67  | 63  | 71  | 66  | 63  |  | 70  | 65  | 62  |  | 69  | 65  | 62  | 61  |
| 9   | 78  | 69  | 63  | 59  | 77  | 68  | 63  | 59  | 67  | 62  | 59  |  | 66  | 62  | 59  |  | 66  | 62  | 59  | 57  |
| 10  | 74  | 65  | 60  | 56  | 74  | 65  | 60  | 56  | 64  | 59  | 56  |  | 63  | 59  | 56  |  | 63  | 58  | 56  | 54  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 71331 |
| 5°  | 69975 |
| 10° | 64621 |
| 15° | 57584 |
| 20° | 49178 |
| 25° | 41300 |
| 30° | 32421 |
| 35° | 16800 |
| 40° | 8023  |
| 45° | 3160  |
| 50° | 833   |
| 55° | 233   |
| 60° | 153   |
| 65° | 136   |
| 70° | 112   |
| 75° | 148   |
| 80° | 110   |
| 85° | 219   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 236.6  | 12.8      |
| 10°-20°   | 565.9  | 30.5      |
| 20°-30°   | 624.8  | 33.7      |
| 30°-40°   | 343.8  | 18.5      |
| 40°-50°   | 72.7   | 3.9       |
| 50°-60°   | 6.2    | 0.3       |
| 60°-70°   | 1.9    | 0.1       |
| 70°-80°   | 1.4    | 0.1       |
| 80°-90°   | 0.7    | 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°    | 1427.4 | 77.0      |
| 0°-40°    | 1771.2 | 95.5      |
| 0°-60°    | 1850.1 | 99.8      |
| 0°-90°    | 1854.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1854.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2611 |      |
| 5°  | 2552 | 237  |
| 15° | 2036 | 566  |
| 25° | 1370 | 625  |
| 35° | 504  | 344  |
| 45° | 82   | 73   |
| 55° | 5    | 6    |
| 65° | 2    | 2    |
| 75° | 1    | 1    |
| 85° | 1    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2611.4 |
| 2.5°  | 2610.0 |
| 5°    | 2552.0 |
| 7.5°  | 2462.6 |
| 10°   | 2329.8 |
| 12.5° | 2197.7 |
| 15°   | 2036.3 |
| 17.5° | 1872.1 |
| 20°   | 1691.8 |
| 22.5° | 1533.9 |
| 25°   | 1370.3 |
| 27.5° | 1212.4 |
| 30°   | 1027.9 |
| 32.5° | 784.7  |
| 35°   | 503.8  |
| 37.5° | 339.6  |
| 40°   | 225.0  |
| 42.5° | 140.5  |
| 45°   | 81.8   |
| 47.5° | 41.9   |
| 50°   | 19.6   |
| 52.5° | 8.4    |
| 55°   | 4.9    |
| 57.5° | 3.5    |
| 60°   | 2.8    |
| 62.5° | 2.1    |
| 65°   | 2.1    |
| 67.5° | 1.4    |
| 70°   | 1.4    |
| 72.5° | 2.1    |
| 75°   | 1.4    |
| 77.5° | 0.7    |
| 80°   | 0.7    |
| 82.5° | 0.7    |
| 85°   | 0.7    |
| 87.5° | 0.7    |
| 90°   | 0.0    |

(END OF REPORT)