

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: P365340

Luminaire Tested: **FLD6BX20D010-FEU6B12-8027-F6LBXVM1-MW-BL85**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-37)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX20D010-FEU6B12-8027-F6LBXVM1-MW-BL85  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, MATTE WHITE REFLECTOR, BOTTOM LENS POLYCARBONATE, CLEAR 0.187", 2000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1475.9 lumens  
Efficiency: N/A  
Efficacy: 72.7 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

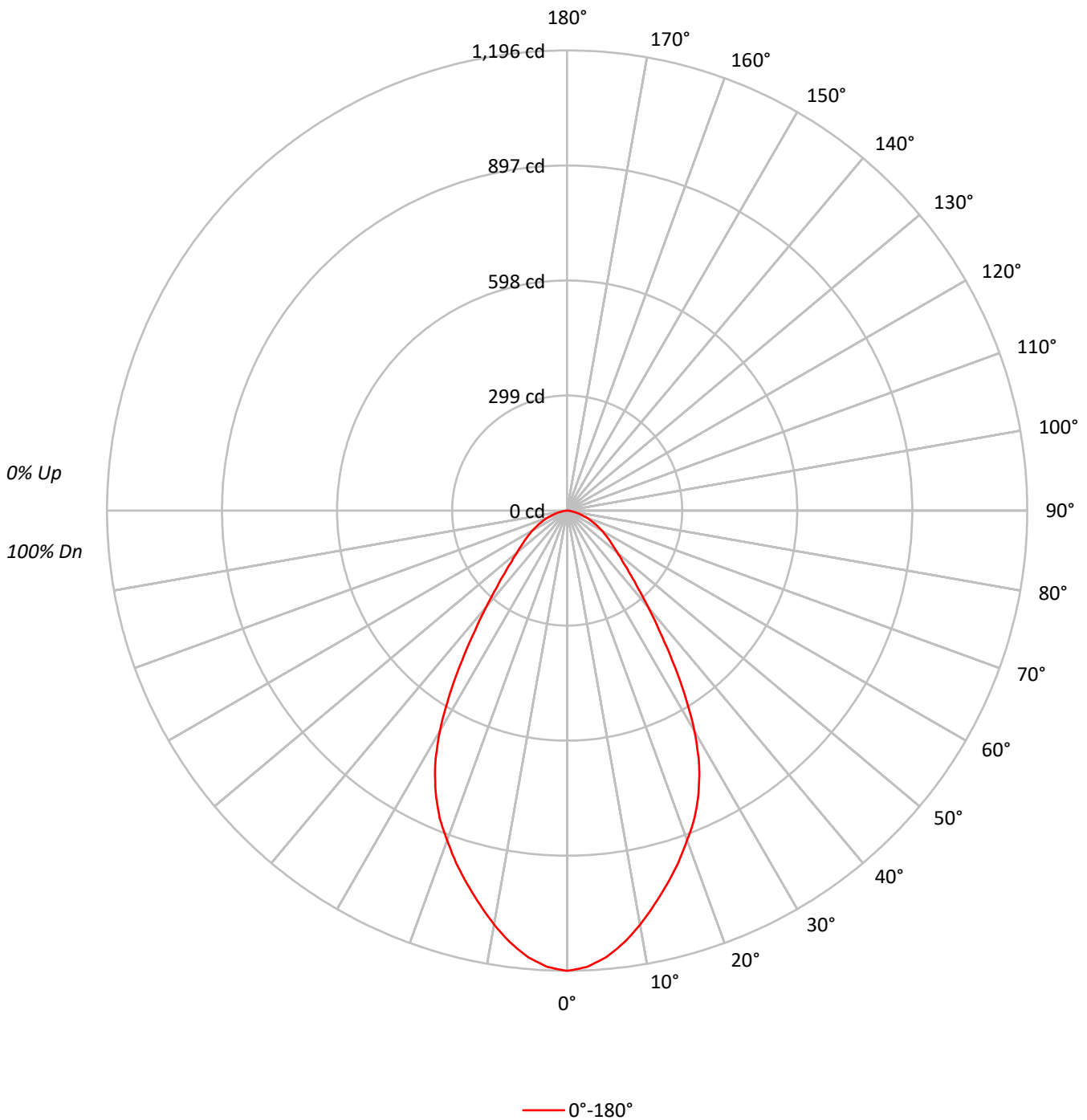
Input Watts (W): 20.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97  |  | 98  | 96  | 94  |  | 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  | 69  | 89  | 80  | 74  | 69  | 78  | 73  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 68  | 63  | 83  | 74  | 67  | 62  | 72  | 66  | 62  |  | 70  | 65  | 61  |  | 69  | 64  | 60  | 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  | 63  | 57  | 52  | 62  | 56  | 51  |  | 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°  | 32675 |
| 5°  | 31952 |
| 10° | 30305 |
| 15° | 28403 |
| 20° | 26504 |
| 25° | 24376 |
| 30° | 20883 |
| 35° | 15899 |
| 40° | 11678 |
| 45° | 8850  |
| 50° | 7245  |
| 55° | 6372  |
| 60° | 5693  |
| 65° | 4990  |
| 70° | 4265  |
| 75° | 3324  |
| 80° | 2234  |
| 85° | 1003  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 108.9  | 7.4       |
| 10°-20°   | 282.0  | 19.1      |
| 20°-30°   | 367.5  | 24.9      |
| 30°-40°   | 299.6  | 20.3      |
| 40°-50°   | 181.4  | 12.3      |
| 50°-60°   | 120.4  | 8.2       |
| 60°-70°   | 77.0   | 5.2       |
| 70°-80°   | 34.1   | 2.3       |
| 80°-90°   | 5.1    | 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°    | 758.3  | 51.4      |
| 0°-40°    | 1057.9 | 71.7      |
| 0°-60°    | 1359.7 | 92.1      |
| 0°-90°    | 1475.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1475.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1196 |      |
| 5°  | 1165 | 109  |
| 15° | 1004 | 282  |
| 25° | 809  | 367  |
| 35° | 477  | 300  |
| 45° | 229  | 181  |
| 55° | 134  | 120  |
| 65° | 77   | 77   |
| 75° | 32   | 34   |
| 85° | 3    | 5    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1196.2 |
| 2.5°  | 1187.2 |
| 5°    | 1165.3 |
| 7.5°  | 1132.5 |
| 10°   | 1092.6 |
| 12.5° | 1048.8 |
| 15°   | 1004.4 |
| 17.5° | 960.0  |
| 20°   | 911.8  |
| 22.5° | 865.5  |
| 25°   | 808.8  |
| 27.5° | 743.2  |
| 30°   | 662.1  |
| 32.5° | 569.5  |
| 35°   | 476.8  |
| 37.5° | 393.2  |
| 40°   | 327.5  |
| 42.5° | 271.5  |
| 45°   | 229.1  |
| 47.5° | 195.6  |
| 50°   | 170.5  |
| 52.5° | 149.9  |
| 55°   | 133.8  |
| 57.5° | 118.4  |
| 60°   | 104.2  |
| 62.5° | 90.7   |
| 65°   | 77.2   |
| 67.5° | 65.0   |
| 70°   | 53.4   |
| 72.5° | 41.8   |
| 75°   | 31.5   |
| 77.5° | 22.5   |
| 80°   | 14.2   |
| 82.5° | 7.7    |
| 85°   | 3.2    |
| 87.5° | 0.6    |
| 90°   | 0.0    |

(END OF REPORT)