

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: P365399

Luminaire Tested: **FLD6BX20D010-FEU6B12-8040-F6LBXVM1-MW-BL89BW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-35)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX20D010-FEU6B12-8040-F6LBXVM1-MW-BL89BW  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, MATTE WHITE REFLECTOR, BOTTOM LENS ACRYLIC OPAL SMOOTH, CLEAR 0.125", 2000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1250.1 lumens  
Efficiency: N/A  
Efficacy: 61.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
CIE Type: Direct

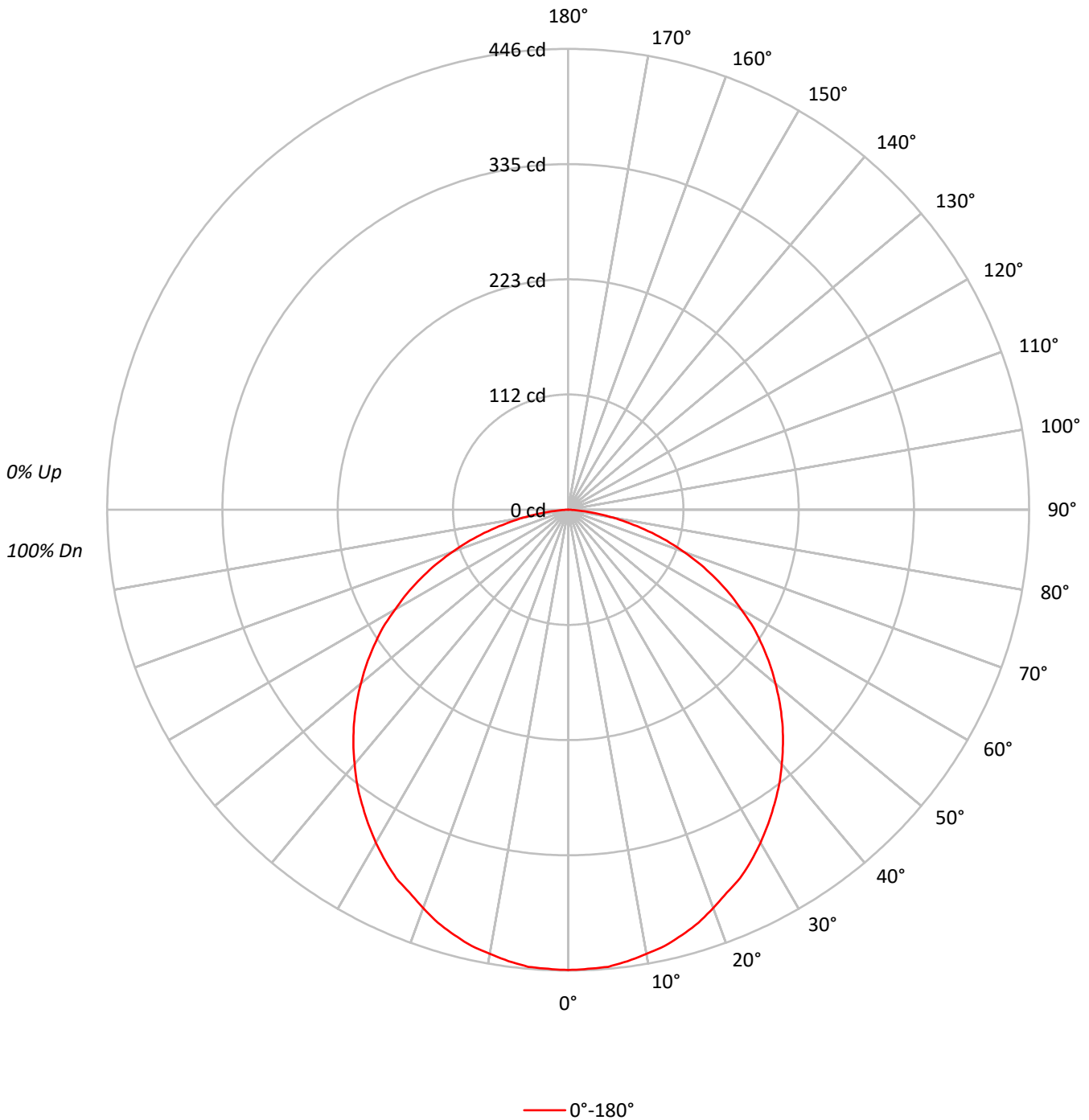
Input Watts (W): 20.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 94  | 92  |  | 94  | 91  | 89  |  | 90  | 88  | 86  | 84  |
| 2   | 99  | 91  | 84  | 78  | 96  | 89  | 83  | 77  | 85  | 80  | 75  |  | 82  | 78  | 74  |  | 79  | 75  | 72  | 70  |
| 3   | 90  | 80  | 71  | 65  | 88  | 78  | 70  | 64  | 75  | 69  | 63  |  | 72  | 67  | 62  |  | 70  | 65  | 61  | 59  |
| 4   | 83  | 71  | 62  | 55  | 80  | 69  | 61  | 55  | 67  | 60  | 54  |  | 64  | 58  | 53  |  | 62  | 57  | 52  | 50  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 47  |  | 58  | 51  | 46  |  | 56  | 50  | 45  | 43  |
| 6   | 70  | 57  | 48  | 41  | 68  | 56  | 47  | 41  | 54  | 46  | 41  |  | 52  | 45  | 40  |  | 51  | 45  | 40  | 38  |
| 7   | 65  | 51  | 43  | 36  | 63  | 51  | 42  | 36  | 49  | 41  | 36  |  | 48  | 41  | 36  |  | 46  | 40  | 35  | 33  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  |  | 44  | 37  | 32  |  | 42  | 36  | 32  | 30  |
| 9   | 56  | 43  | 35  | 29  | 55  | 42  | 35  | 29  | 41  | 34  | 29  |  | 40  | 34  | 29  |  | 39  | 33  | 29  | 27  |
| 10  | 53  | 40  | 32  | 26  | 52  | 39  | 32  | 26  | 38  | 31  | 26  |  | 37  | 31  | 26  |  | 36  | 30  | 26  | 24  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 12169 |
| 5°  | 12177 |
| 10° | 12107 |
| 15° | 12050 |
| 20° | 11924 |
| 25° | 11863 |
| 30° | 11736 |
| 35° | 11598 |
| 40° | 11464 |
| 45° | 11322 |
| 50° | 11129 |
| 55° | 10920 |
| 60° | 10560 |
| 65° | 10167 |
| 70° | 9520  |
| 75° | 8485  |
| 80° | 6874  |
| 85° | 4137  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 42.1   | 3.4       |
| 10°-20°   | 120.2  | 9.6       |
| 20°-30°   | 181.1  | 14.5      |
| 30°-40°   | 217.7  | 17.4      |
| 40°-50°   | 225.9  | 18.1      |
| 50°-60°   | 204.8  | 16.4      |
| 60°-70°   | 155.4  | 12.4      |
| 70°-80°   | 85.0   | 6.8       |
| 80°-90°   | 17.8   | 1.4       |
| 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°    | 343.4  | 27.5      |
| 0°-40°    | 561.1  | 44.9      |
| 0°-60°    | 991.8  | 79.3      |
| 0°-90°    | 1250.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1250.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 446 |      |
| 5°  | 444 | 42   |
| 15° | 426 | 120  |
| 25° | 394 | 181  |
| 35° | 348 | 218  |
| 45° | 293 | 226  |
| 55° | 229 | 205  |
| 65° | 157 | 155  |
| 75° | 80  | 85   |
| 85° | 13  | 18   |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 445.5 |
| 2.5°  | 444.8 |
| 5°    | 444.1 |
| 7.5°  | 440.7 |
| 10°   | 436.5 |
| 12.5° | 432.4 |
| 15°   | 426.1 |
| 17.5° | 419.2 |
| 20°   | 410.2 |
| 22.5° | 401.2 |
| 25°   | 393.6 |
| 27.5° | 383.2 |
| 30°   | 372.1 |
| 32.5° | 360.3 |
| 35°   | 347.8 |
| 37.5° | 335.4 |
| 40°   | 321.5 |
| 42.5° | 307.6 |
| 45°   | 293.1 |
| 47.5° | 277.8 |
| 50°   | 261.9 |
| 52.5° | 246.0 |
| 55°   | 229.3 |
| 57.5° | 212.7 |
| 60°   | 193.3 |
| 62.5° | 176.0 |
| 65°   | 157.3 |
| 67.5° | 138.6 |
| 70°   | 119.2 |
| 72.5° | 99.8  |
| 75°   | 80.4  |
| 77.5° | 61.0  |
| 80°   | 43.7  |
| 82.5° | 27.0  |
| 85°   | 13.2  |
| 87.5° | 3.5   |
| 90°   | 0.0   |

(END OF REPORT)