

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: P365229

Luminaire Tested: **FLD6BX10D010-FEU6B12-8040-F6LBXVM1-MW-BTR94**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX10D010-FEU6B12-8040-F6LBXVM1-MW-BTR94  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,  
BOTTOM TRIM GLASS, TEMPERED CLEAR 0.187", 1000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 659.0 lumens  
Efficiency: N/A  
Efficacy: 65.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.83  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

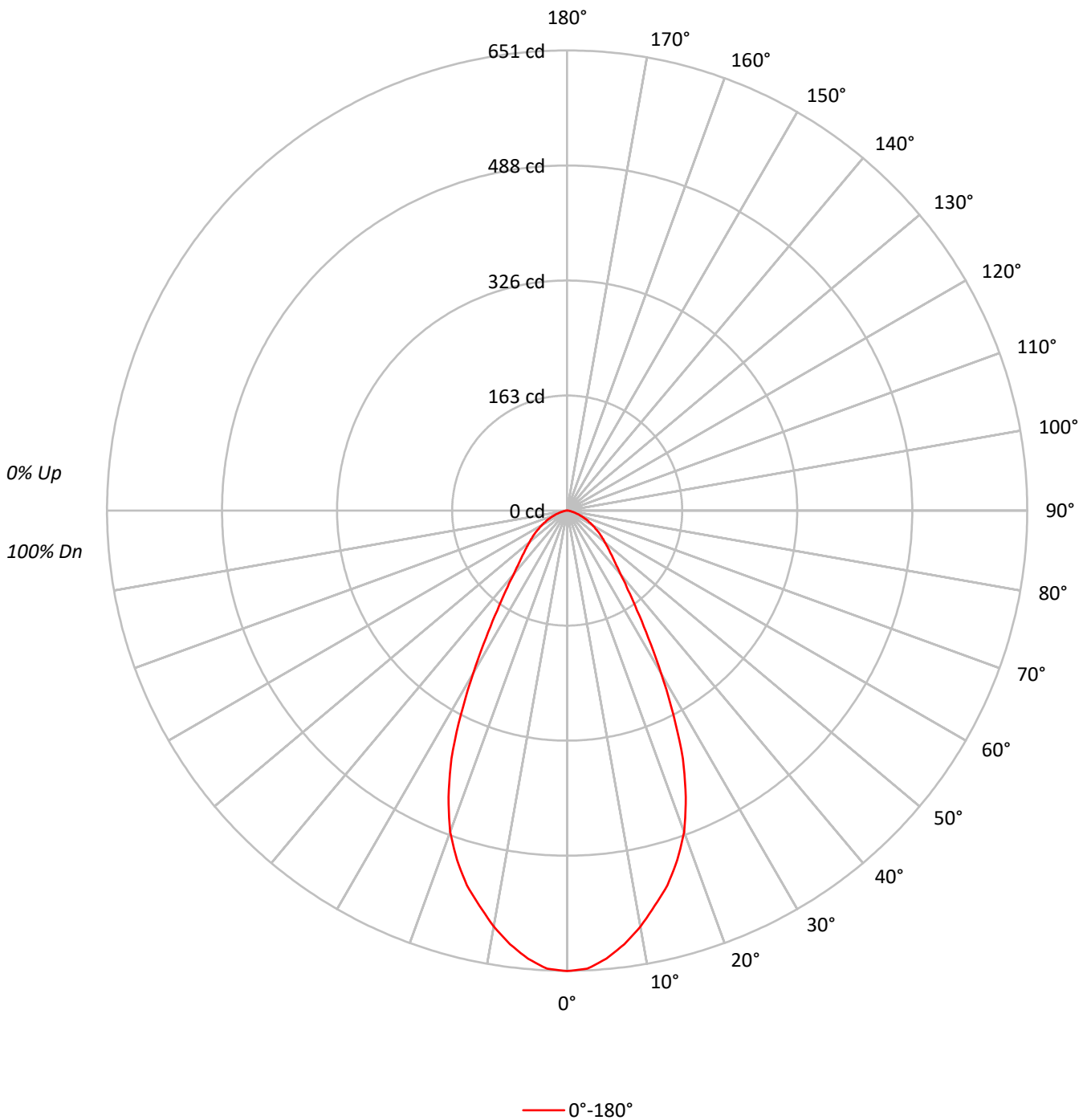
Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98  |  | 99  | 97  | 95  |  | 95  | 94  | 93  | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 98  | 93  | 89  | 94  | 91  | 87  |  | 91  | 88  | 85  |  | 88  | 86  | 84  | 82  |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  |  | 84  | 80  | 77  |  | 82  | 79  | 76  | 74  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 77  | 72  | 80  | 75  | 71  |  | 78  | 74  | 70  |  | 76  | 72  | 69  | 68  |
| 5   | 87  | 78  | 71  | 66  | 85  | 77  | 70  | 65  | 75  | 69  | 65  |  | 73  | 68  | 64  |  | 71  | 67  | 64  | 62  |
| 6   | 82  | 72  | 65  | 60  | 81  | 71  | 65  | 60  | 70  | 64  | 60  |  | 68  | 63  | 59  |  | 67  | 62  | 59  | 57  |
| 7   | 78  | 67  | 60  | 56  | 76  | 66  | 60  | 55  | 65  | 59  | 55  |  | 64  | 59  | 55  |  | 63  | 58  | 54  | 53  |
| 8   | 74  | 63  | 56  | 51  | 72  | 62  | 56  | 51  | 61  | 55  | 51  |  | 60  | 55  | 51  |  | 59  | 54  | 51  | 49  |
| 9   | 70  | 59  | 52  | 48  | 69  | 59  | 52  | 48  | 58  | 52  | 48  |  | 57  | 51  | 48  |  | 56  | 51  | 47  | 46  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 49  | 45  |  | 53  | 48  | 45  |  | 53  | 48  | 44  | 43  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 46641 |
| 5°  | 45734 |
| 10° | 43435 |
| 15° | 40659 |
| 20° | 36857 |
| 25° | 30606 |
| 30° | 21951 |
| 35° | 15052 |
| 40° | 11039 |
| 45° | 8962  |
| 50° | 7720  |
| 55° | 6841  |
| 60° | 5943  |
| 65° | 5015  |
| 70° | 3957  |
| 75° | 2877  |
| 80° | 1814  |
| 85° | 2136  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.5   | 9.0       |
| 10°-20°   | 152.9  | 23.2      |
| 20°-30°   | 173.6  | 26.3      |
| 30°-40°   | 111.1  | 16.9      |
| 40°-50°   | 69.4   | 10.5      |
| 50°-60°   | 49.1   | 7.5       |
| 60°-70°   | 29.4   | 4.5       |
| 70°-80°   | 11.4   | 1.7       |
| 80°-90°   | 2.5    | 0.4       |
| 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°    | 386.0  | 58.6      |
| 0°-40°    | 497.1  | 75.4      |
| 0°-60°    | 615.6  | 93.4      |
| 0°-90°    | 659.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 659.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 651 |      |
| 5°  | 636 | 59   |
| 15° | 548 | 153  |
| 25° | 387 | 174  |
| 35° | 172 | 111  |
| 45° | 88  | 69   |
| 55° | 55  | 49   |
| 65° | 30  | 29   |
| 75° | 10  | 11   |
| 85° | 3   | 3    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 651.4 |
| 2.5°  | 648.8 |
| 5°    | 636.3 |
| 7.5°  | 618.8 |
| 10°   | 597.4 |
| 12.5° | 572.6 |
| 15°   | 548.5 |
| 17.5° | 518.5 |
| 20°   | 483.7 |
| 22.5° | 438.5 |
| 25°   | 387.4 |
| 27.5° | 325.5 |
| 30°   | 265.5 |
| 32.5° | 213.3 |
| 35°   | 172.2 |
| 37.5° | 141.5 |
| 40°   | 118.1 |
| 42.5° | 100.7 |
| 45°   | 88.5  |
| 47.5° | 78.1  |
| 50°   | 69.3  |
| 52.5° | 62.2  |
| 55°   | 54.8  |
| 57.5° | 47.8  |
| 60°   | 41.5  |
| 62.5° | 35.2  |
| 65°   | 29.6  |
| 67.5° | 24.1  |
| 70°   | 18.9  |
| 72.5° | 14.4  |
| 75°   | 10.4  |
| 77.5° | 7.0   |
| 80°   | 4.4   |
| 82.5° | 3.0   |
| 85°   | 2.6   |
| 87.5° | 1.5   |
| 90°   | 0.0   |

(END OF REPORT)