

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: P364970

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8050-F6LBXVM1-LI-BTR82**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P364970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX50D010TE-FEU6B35-8050-F6LBXVM1-LI-BTR82  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, SPECULAR CLEAR REFLECTOR, BOTTOM TRIM POLYCARBONATE, PATTERN 12 0.187", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3944.0 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Spacing Criteria (0/90/45): 1.07 / 1.07 / 1.07  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

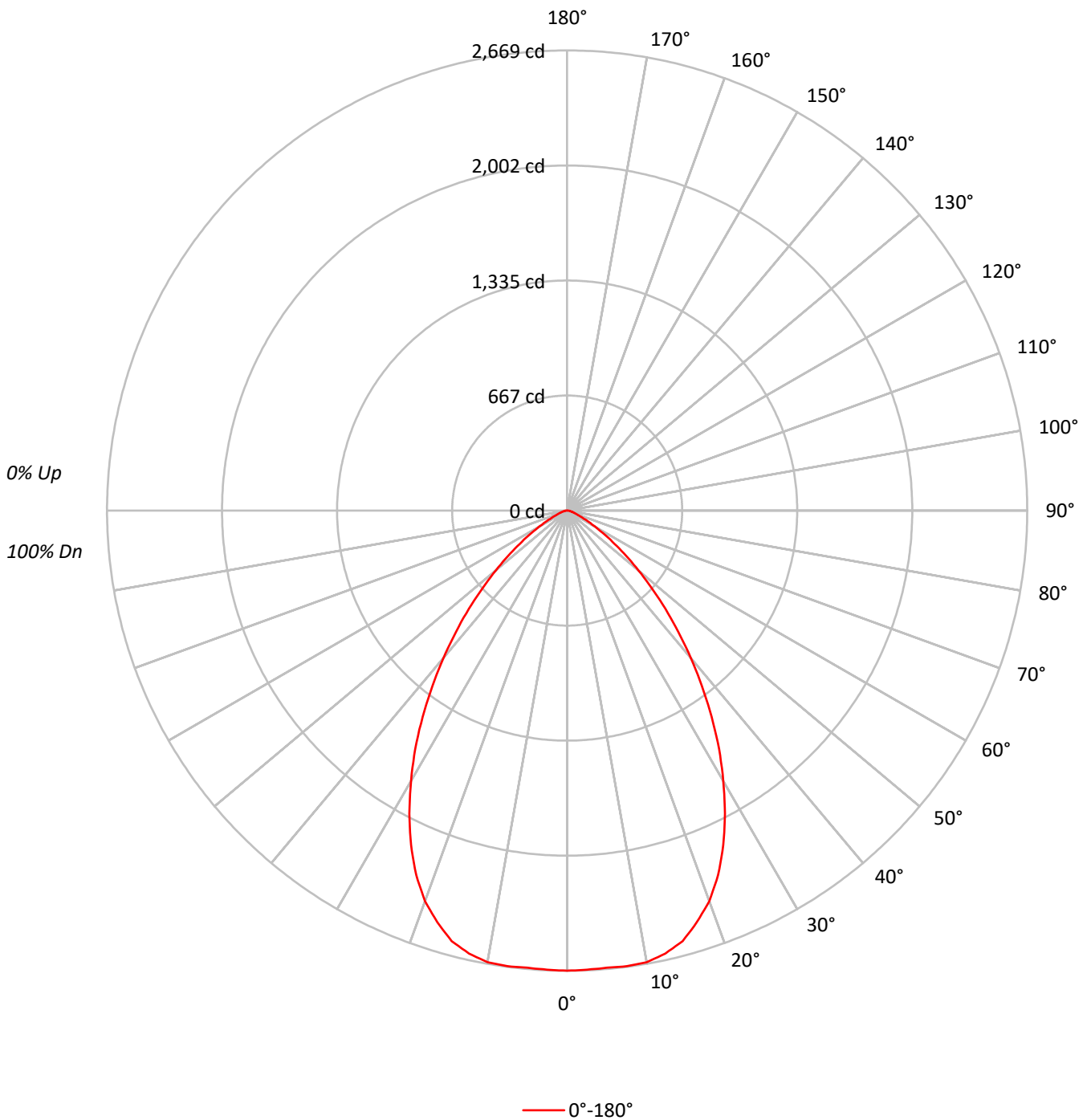
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98  |  | 99  | 97  | 95  |  | 95  | 94  | 93  | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  |  | 91  | 88  | 85  |  | 88  | 85  | 83  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 77  |  | 84  | 80  | 76  |  | 81  | 78  | 75  | 73  |
| 4   | 92  | 83  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 69  |  | 77  | 72  | 69  |  | 75  | 71  | 68  | 66  |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 63  | 73  | 67  | 63  |  | 71  | 66  | 62  |  | 69  | 65  | 61  | 60  |
| 6   | 81  | 70  | 63  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  |  | 66  | 60  | 56  |  | 64  | 60  | 56  | 54  |
| 7   | 76  | 65  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  |  | 61  | 56  | 52  |  | 60  | 55  | 51  | 50  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 53  | 48  | 58  | 52  | 48  |  | 57  | 51  | 47  |  | 56  | 51  | 47  | 46  |
| 9   | 67  | 56  | 49  | 44  | 66  | 55  | 49  | 44  | 54  | 48  | 44  |  | 53  | 48  | 44  |  | 52  | 47  | 43  | 42  |
| 10  | 63  | 52  | 45  | 41  | 62  | 52  | 45  | 41  | 51  | 45  | 41  |  | 50  | 44  | 40  |  | 49  | 44  | 40  | 39  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 191084 |
| 5°  | 191296 |
| 10° | 193377 |
| 15° | 191665 |
| 20° | 183673 |
| 25° | 169187 |
| 30° | 149731 |
| 35° | 127679 |
| 40° | 104303 |
| 45° | 81545  |
| 50° | 60141  |
| 55° | 41695  |
| 60° | 26636  |
| 65° | 16214  |
| 70° | 10970  |
| 75° | 8493   |
| 80° | 7463   |
| 85° | 10351  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 254.2  | 6.4       |
| 10°-20°   | 723.0  | 18.3      |
| 20°-30°   | 978.0  | 24.8      |
| 30°-40°   | 909.8  | 23.1      |
| 40°-50°   | 623.4  | 15.8      |
| 50°-60°   | 307.2  | 7.8       |
| 60°-70°   | 102.7  | 2.6       |
| 70°-80°   | 34.0   | 0.9       |
| 80°-90°   | 11.8   | 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°    | 1955.3 | 49.6      |
| 0°-40°    | 2865.0 | 72.6      |
| 0°-60°    | 3795.5 | 96.2      |
| 0°-90°    | 3944.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3944.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2669 |      |
| 5°  | 2662 | 254  |
| 15° | 2586 | 723  |
| 25° | 2142 | 978  |
| 35° | 1461 | 910  |
| 45° | 805  | 623  |
| 55° | 334  | 307  |
| 65° | 96   | 103  |
| 75° | 31   | 34   |
| 85° | 13   | 12   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2668.7 |
| 2.5°  | 2665.1 |
| 5°    | 2661.5 |
| 7.5°  | 2665.1 |
| 10°   | 2659.7 |
| 12.5° | 2630.8 |
| 15°   | 2585.6 |
| 17.5° | 2502.6 |
| 20°   | 2410.5 |
| 22.5° | 2287.7 |
| 25°   | 2141.5 |
| 27.5° | 1982.6 |
| 30°   | 1811.0 |
| 32.5° | 1639.5 |
| 35°   | 1460.7 |
| 37.5° | 1283.8 |
| 40°   | 1115.9 |
| 42.5° | 953.4  |
| 45°   | 805.3  |
| 47.5° | 664.5  |
| 50°   | 539.9  |
| 52.5° | 431.5  |
| 55°   | 334.0  |
| 57.5° | 254.6  |
| 60°   | 186.0  |
| 62.5° | 133.6  |
| 65°   | 95.7   |
| 67.5° | 68.6   |
| 70°   | 52.4   |
| 72.5° | 39.7   |
| 75°   | 30.7   |
| 77.5° | 23.5   |
| 80°   | 18.1   |
| 82.5° | 14.4   |
| 85°   | 12.6   |
| 87.5° | 7.2    |
| 90°   | 0.0    |

(END OF REPORT)