

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: P365111

Luminaire Tested: **FLD6BX70D010TE-FEU6B67-8035-F6LBXVM1-LI-BL89BW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365111  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-42)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX70D010TE-FEU6B67-8035-F6LBXVM1-LI-BL89BW  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, SPECULAR CLEAR REFLECTOR,  
BOTTOM LENS ACRYLIC OPAL SMOOTH, CLEAR 0.125", 7000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4936.1 lumens  
Efficiency: N/A  
Efficacy: 67.2 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

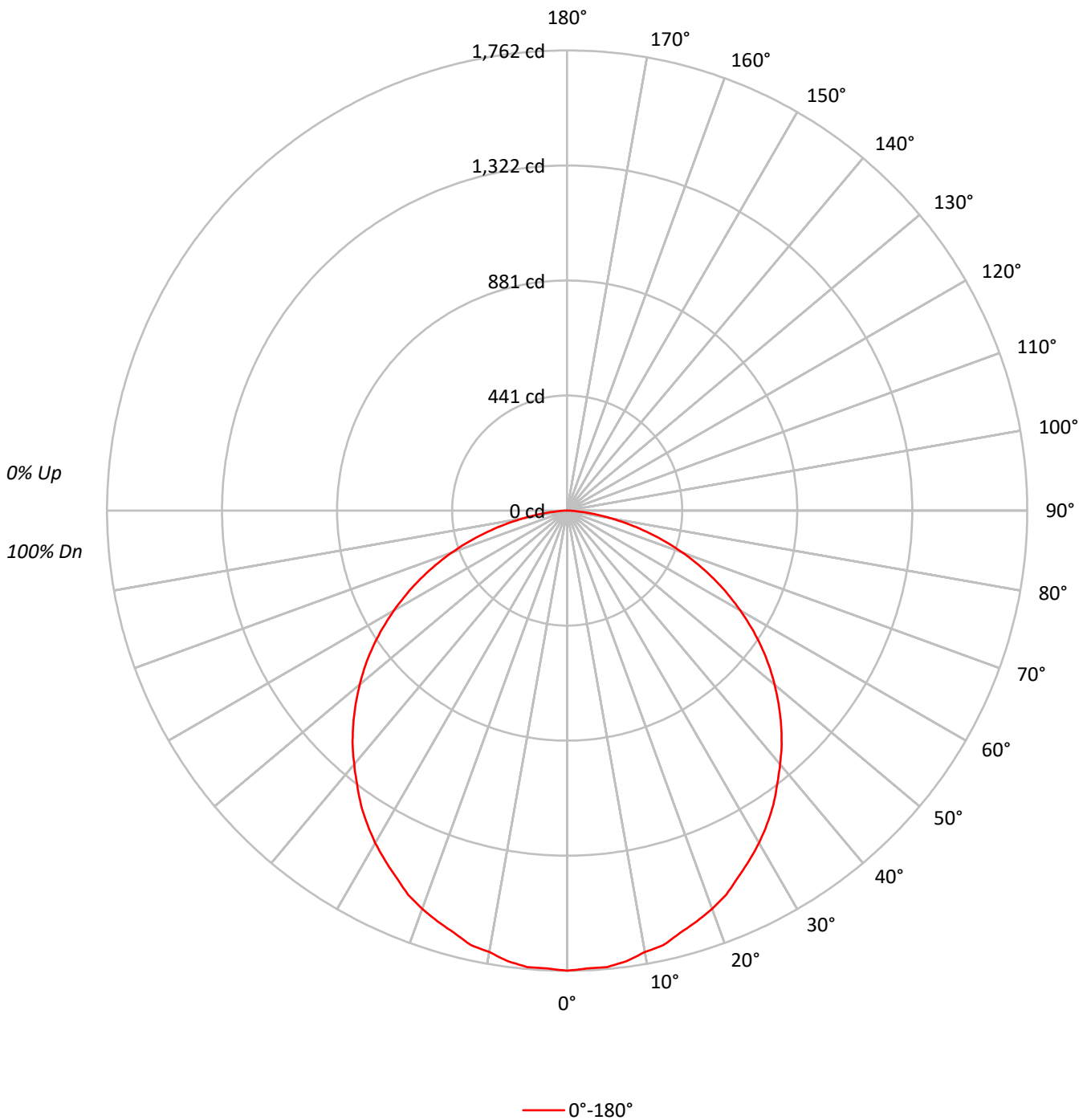
Input Watts (W): 73.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 46  | 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  | 34  | 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°  | 48124 |
| 5°  | 48110 |
| 10° | 47604 |
| 15° | 47316 |
| 20° | 47178 |
| 25° | 46676 |
| 30° | 46359 |
| 35° | 45897 |
| 40° | 45239 |
| 45° | 44756 |
| 50° | 44046 |
| 55° | 43203 |
| 60° | 41847 |
| 65° | 40073 |
| 70° | 37472 |
| 75° | 33350 |
| 80° | 26741 |
| 85° | 16517 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 166.2  | 3.4       |
| 10°-20°   | 473.1  | 9.6       |
| 20°-30°   | 715.0  | 14.5      |
| 30°-40°   | 859.9  | 17.4      |
| 40°-50°   | 893.2  | 18.1      |
| 50°-60°   | 809.7  | 16.4      |
| 60°-70°   | 613.0  | 12.4      |
| 70°-80°   | 334.7  | 6.8       |
| 80°-90°   | 71.3   | 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°    | 1354.3 | 27.4      |
| 0°-40°    | 2214.2 | 44.9      |
| 0°-60°    | 3917.1 | 79.4      |
| 0°-90°    | 4936.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4936.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1762 |      |
| 5°  | 1755 | 166  |
| 15° | 1673 | 473  |
| 25° | 1549 | 715  |
| 35° | 1376 | 860  |
| 45° | 1159 | 893  |
| 55° | 907  | 810  |
| 65° | 620  | 613  |
| 75° | 316  | 335  |
| 85° | 53   | 71   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1761.8 |
| 2.5°  | 1754.6 |
| 5°    | 1754.6 |
| 7.5°  | 1740.2 |
| 10°   | 1716.3 |
| 12.5° | 1704.3 |
| 15°   | 1673.2 |
| 17.5° | 1649.3 |
| 20°   | 1623.0 |
| 22.5° | 1591.8 |
| 25°   | 1548.7 |
| 27.5° | 1510.4 |
| 30°   | 1469.8 |
| 32.5° | 1424.3 |
| 35°   | 1376.4 |
| 37.5° | 1321.3 |
| 40°   | 1268.7 |
| 42.5° | 1216.0 |
| 45°   | 1158.6 |
| 47.5° | 1098.7 |
| 50°   | 1036.5 |
| 52.5° | 974.2  |
| 55°   | 907.2  |
| 57.5° | 837.8  |
| 60°   | 766.0  |
| 62.5° | 694.2  |
| 65°   | 620.0  |
| 67.5° | 545.8  |
| 70°   | 469.2  |
| 72.5° | 392.6  |
| 75°   | 316.0  |
| 77.5° | 241.8  |
| 80°   | 170.0  |
| 82.5° | 107.7  |
| 85°   | 52.7   |
| 87.5° | 16.8   |
| 90°   | 0.0    |

(END OF REPORT)