

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: P365112

Luminaire Tested: **FLD6BX70D010TE-FEU6B67-8035-F6LBXVM1-LI-BTR80**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365112  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-23)  
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-BTR80  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, SPECULAR CLEAR REFLECTOR, BOTTOM TRIM ACRYLIC, PATTERN 12 0.125", 7000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5544.0 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.87  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

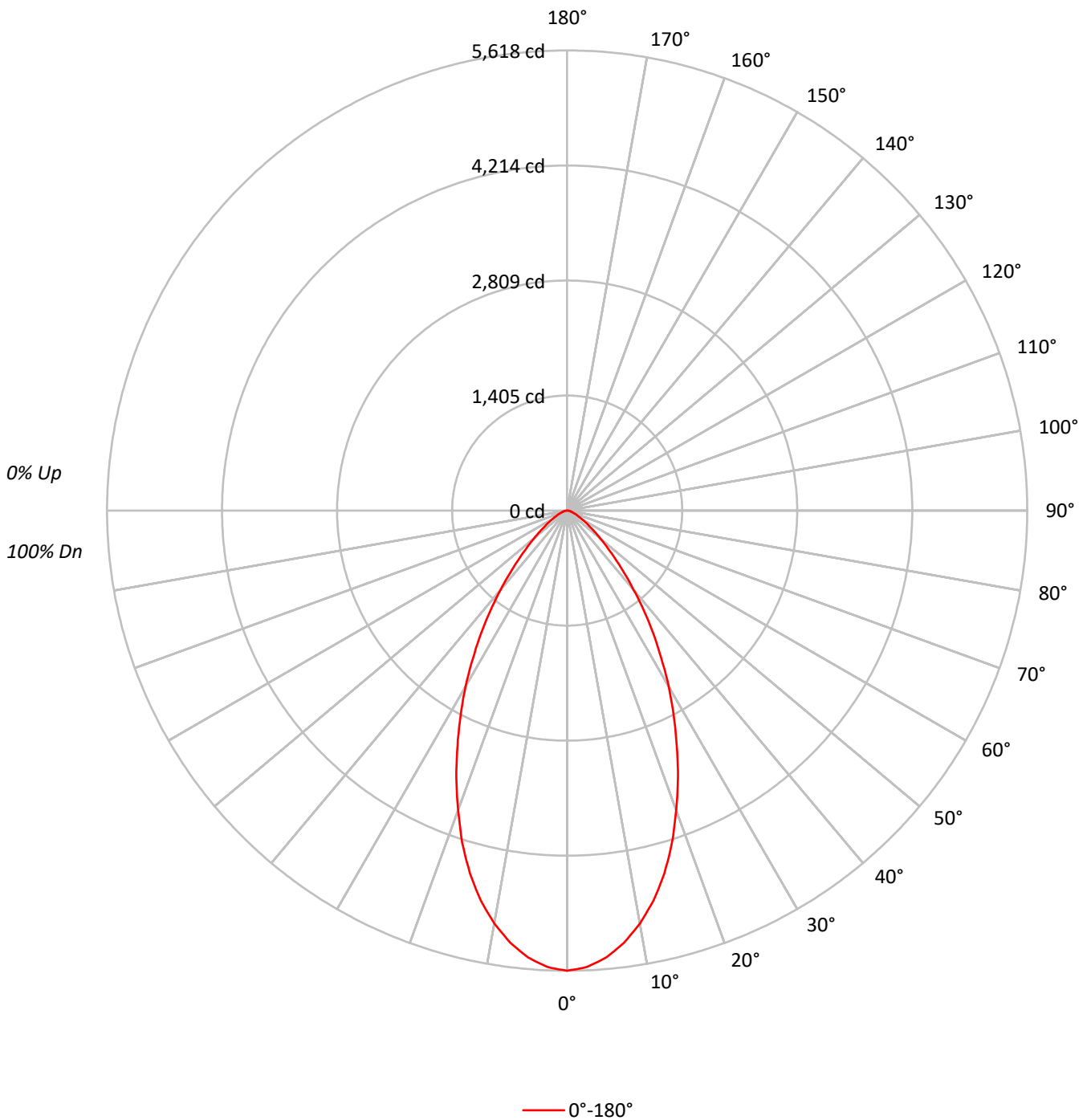
Input Watts (W): 73.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  |  | 99  | 98  | 96  |  | 96  | 95  | 93  | 91  |
| 2   | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  |  | 92  | 89  | 87  |  | 89  | 87  | 85  | 83  |
| 3   | 100 | 92  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 84  | 80  |  | 86  | 82  | 79  |  | 83  | 80  | 78  | 76  |
| 4   | 94  | 85  | 79  | 74  | 92  | 84  | 78  | 74  | 82  | 77  | 73  |  | 80  | 75  | 72  |  | 78  | 74  | 71  | 69  |
| 5   | 88  | 79  | 72  | 67  | 87  | 78  | 72  | 67  | 76  | 71  | 67  |  | 74  | 70  | 66  |  | 73  | 69  | 65  | 64  |
| 6   | 83  | 73  | 67  | 62  | 82  | 73  | 66  | 62  | 71  | 65  | 61  |  | 69  | 65  | 61  |  | 68  | 64  | 60  | 59  |
| 7   | 79  | 68  | 62  | 57  | 77  | 68  | 61  | 57  | 66  | 61  | 57  |  | 65  | 60  | 56  |  | 64  | 59  | 56  | 54  |
| 8   | 75  | 64  | 57  | 53  | 73  | 63  | 57  | 53  | 62  | 57  | 52  |  | 61  | 56  | 52  |  | 60  | 55  | 52  | 50  |
| 9   | 71  | 60  | 54  | 49  | 69  | 60  | 53  | 49  | 59  | 53  | 49  |  | 58  | 52  | 49  |  | 57  | 52  | 49  | 47  |
| 10  | 67  | 57  | 50  | 46  | 66  | 56  | 50  | 46  | 55  | 50  | 46  |  | 54  | 49  | 46  |  | 54  | 49  | 45  | 44  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 402266 |
| 5°  | 393654 |
| 10° | 372104 |
| 15° | 339801 |
| 20° | 296399 |
| 25° | 250197 |
| 30° | 205035 |
| 35° | 160274 |
| 40° | 118136 |
| 45° | 83145  |
| 50° | 58659  |
| 55° | 41532  |
| 60° | 29486  |
| 65° | 21907  |
| 70° | 17041  |
| 75° | 13915  |
| 80° | 12824  |
| 85° | 13802  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 511.4  | 9.2       |
| 10°-20°   | 1273.3 | 23.0      |
| 20°-30°   | 1450.6 | 26.2      |
| 30°-40°   | 1144.9 | 20.7      |
| 40°-50°   | 650.7  | 11.7      |
| 50°-60°   | 307.1  | 5.5       |
| 60°-70°   | 132.9  | 2.4       |
| 70°-80°   | 55.2   | 1.0       |
| 80°-90°   | 17.9   | 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°    | 3235.3 | 58.4      |
| 0°-40°    | 4380.2 | 79.0      |
| 0°-60°    | 5338.0 | 96.3      |
| 0°-90°    | 5544.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5544.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 5618 |      |
| 5°  | 5477 | 511  |
| 15° | 4584 | 1273 |
| 25° | 3167 | 1451 |
| 35° | 1834 | 1145 |
| 45° | 821  | 651  |
| 55° | 333  | 307  |
| 65° | 129  | 133  |
| 75° | 50   | 55   |
| 85° | 17   | 18   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 5618.1 |
| 2.5°  | 5577.5 |
| 5°    | 5476.9 |
| 7.5°  | 5321.3 |
| 10°   | 5117.9 |
| 12.5° | 4873.7 |
| 15°   | 4584.0 |
| 17.5° | 4256.1 |
| 20°   | 3889.9 |
| 22.5° | 3535.6 |
| 25°   | 3166.9 |
| 27.5° | 2815.1 |
| 30°   | 2479.9 |
| 32.5° | 2140.0 |
| 35°   | 1833.6 |
| 37.5° | 1539.2 |
| 40°   | 1263.9 |
| 42.5° | 1029.3 |
| 45°   | 821.1  |
| 47.5° | 655.9  |
| 50°   | 526.6  |
| 52.5° | 418.9  |
| 55°   | 332.7  |
| 57.5° | 263.3  |
| 60°   | 205.9  |
| 62.5° | 162.8  |
| 65°   | 129.3  |
| 67.5° | 102.9  |
| 70°   | 81.4   |
| 72.5° | 64.6   |
| 75°   | 50.3   |
| 77.5° | 38.3   |
| 80°   | 31.1   |
| 82.5° | 23.9   |
| 85°   | 16.8   |
| 87.5° | 9.6    |
| 90°   | 0.0    |

(END OF REPORT)