

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: P236147

Luminaire Tested: **FLD6BX15D010 EU6B1/28040 F6LBXVM1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236147  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX15D010 EU6B1/28040 F6LBXVM1LI  
Description: FAILSAFE 6 INCH RECESSED LED DOWNLIGHT  
6" LED Vandal Resistant, Medium (50° Beam), Specular Clear, Bottom open  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1359.0 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.91  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

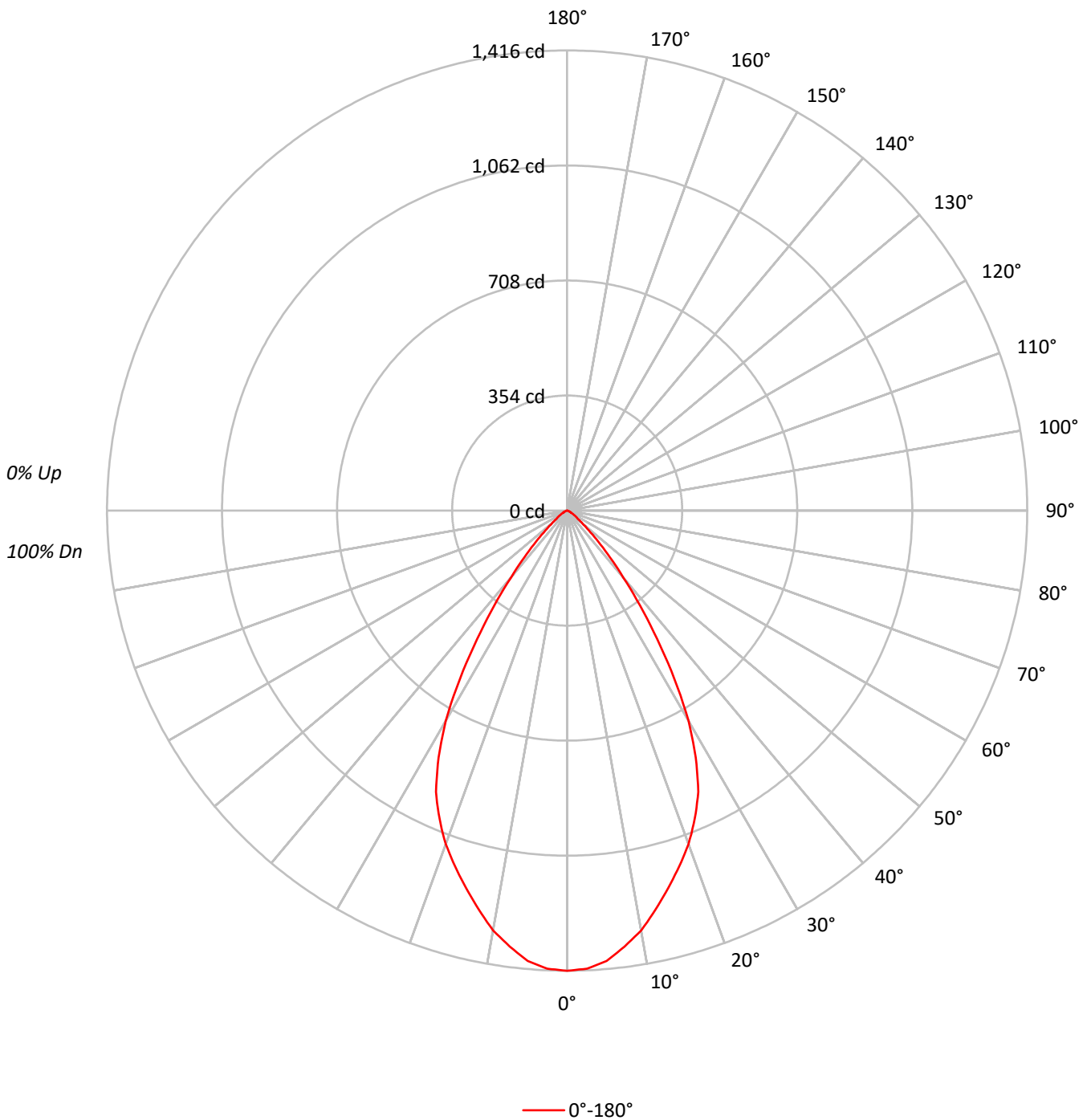
Input Watts (W): 14.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2   | 107 | 102 | 98  | 94  | 105 | 100 | 97  | 93  | 97  | 94  | 91  | 94  | 92  | 89  | 91  | 89  | 87  | 86  |
| 3   | 102 | 95  | 90  | 85  | 100 | 93  | 89  | 85  | 91  | 87  | 83  | 88  | 85  | 82  | 86  | 83  | 81  | 79  |
| 4   | 96  | 88  | 82  | 78  | 94  | 87  | 82  | 77  | 85  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 73  |
| 5   | 91  | 82  | 76  | 72  | 89  | 81  | 76  | 71  | 79  | 74  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 68  |
| 6   | 86  | 77  | 71  | 66  | 85  | 76  | 70  | 66  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 64  | 63  |
| 7   | 82  | 72  | 66  | 61  | 80  | 71  | 65  | 61  | 70  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 59  |
| 8   | 77  | 68  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 60  | 57  | 65  | 60  | 56  | 64  | 59  | 56  | 55  |
| 9   | 74  | 64  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 60  | 56  | 53  | 51  |
| 10  | 70  | 60  | 54  | 50  | 69  | 59  | 54  | 50  | 59  | 53  | 50  | 58  | 53  | 49  | 57  | 53  | 49  | 48  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 92387 |
| 5°  | 91123 |
| 10° | 86910 |
| 15° | 81192 |
| 20° | 75836 |
| 25° | 68753 |
| 30° | 56236 |
| 35° | 38468 |
| 40° | 22910 |
| 45° | 12410 |
| 50° | 6130  |
| 55° | 3742  |
| 60° | 2505  |
| 65° | 1698  |
| 70° | 1049  |
| 75° | 681   |
| 80° | 1014  |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.1  | 9.6       |
| 10°-20°   | 337.6  | 24.8      |
| 20°-30°   | 430.1  | 31.6      |
| 30°-40°   | 304.0  | 22.4      |
| 40°-50°   | 111.0  | 8.2       |
| 50°-60°   | 30.8   | 2.3       |
| 60°-70°   | 11.1   | 0.8       |
| 70°-80°   | 4.0    | 0.3       |
| 80°-90°   | 0.4    | 0.0       |
| 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°    | 897.8  | 66.1      |
| 0°-40°    | 1201.8 | 88.4      |
| 0°-60°    | 1343.5 | 98.9      |
| 0°-90°    | 1359.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1359.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1416 |      |
| 5°  | 1391 | 130  |
| 15° | 1202 | 338  |
| 25° | 955  | 430  |
| 35° | 483  | 304  |
| 45° | 134  | 111  |
| 55° | 33   | 31   |
| 65° | 11   | 11   |
| 75° | 3    | 4    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1416.1 |
| 2.5°  | 1410.7 |
| 5°    | 1391.4 |
| 7.5°  | 1353.0 |
| 10°   | 1311.9 |
| 12.5° | 1257.0 |
| 15°   | 1202.1 |
| 17.5° | 1147.2 |
| 20°   | 1092.3 |
| 22.5° | 1026.4 |
| 25°   | 955.1  |
| 27.5° | 856.3  |
| 30°   | 746.5  |
| 32.5° | 614.8  |
| 35°   | 483.0  |
| 37.5° | 367.8  |
| 40°   | 269.0  |
| 42.5° | 194.9  |
| 45°   | 134.5  |
| 47.5° | 90.6   |
| 50°   | 60.4   |
| 52.5° | 41.2   |
| 55°   | 32.9   |
| 57.5° | 24.7   |
| 60°   | 19.2   |
| 62.5° | 13.7   |
| 65°   | 11.0   |
| 67.5° | 8.2    |
| 70°   | 5.5    |
| 72.5° | 5.5    |
| 75°   | 2.7    |
| 77.5° | 2.7    |
| 80°   | 2.7    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)