

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: P236171

Luminaire Tested: **FLD6BX15D010 EU6B1/28040 F6LBXVM1LIBL86**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236171  
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 F6LBXVM1LIBL86  
Description: FAILSAFE 6 INCH RECESSED LED DOWNLIGHT  
6" LED Vandal Resistant, Medium (50° Beam), Specular Clear, Bottom lens,  
0.250" clear polycarbonate  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

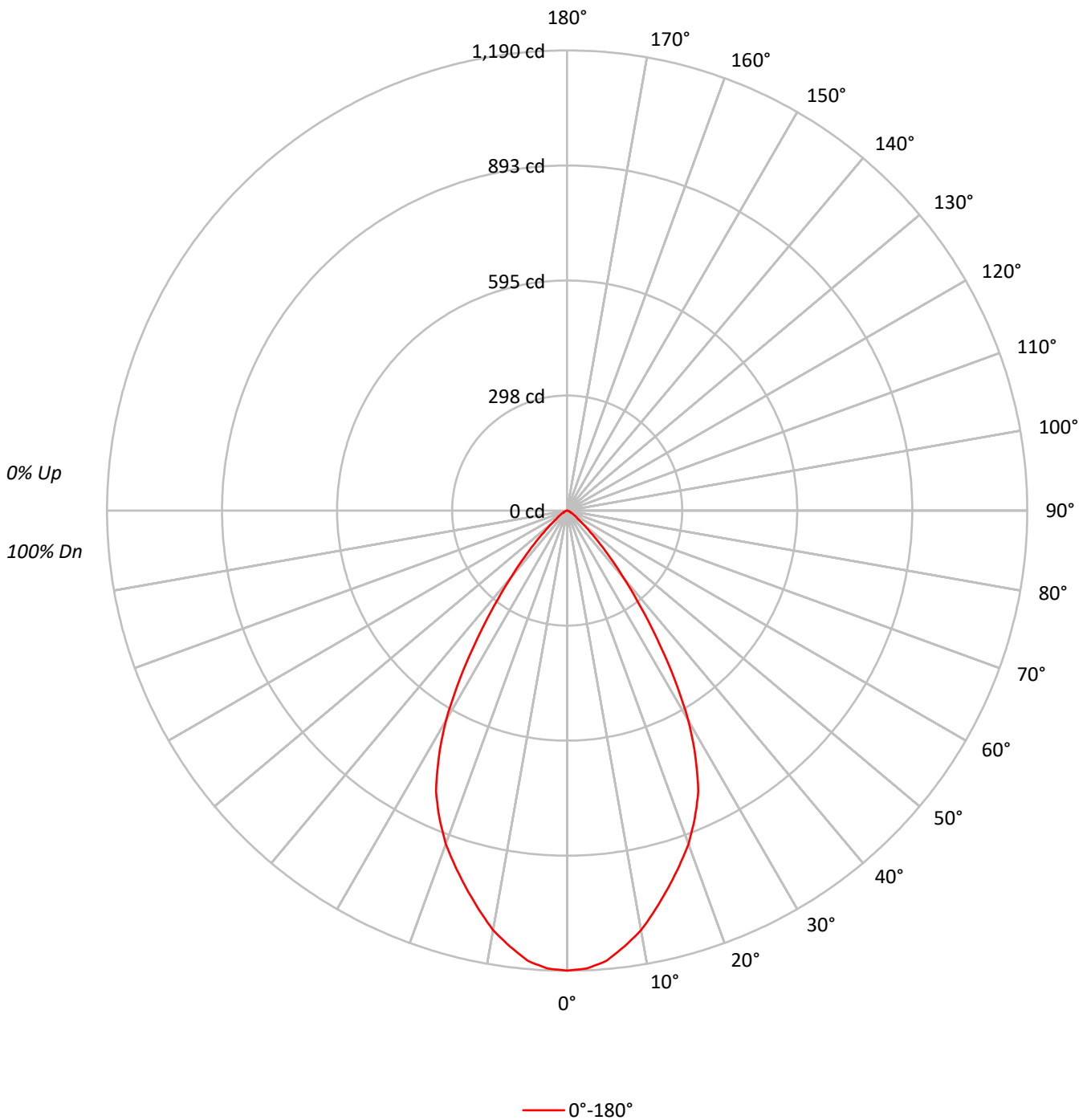
Lumens per Lamp: N/A  
Luminaire Lumens: 1141.5 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.91  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°  | 77610 |
| 5°  | 76545 |
| 10° | 73004 |
| 15° | 68197 |
| 20° | 63700 |
| 25° | 57754 |
| 30° | 47242 |
| 35° | 32312 |
| 40° | 19239 |
| 45° | 10426 |
| 50° | 5146  |
| 55° | 3151  |
| 60° | 2101  |
| 65° | 1420  |
| 70° | 877   |
| 75° | 580   |
| 80° | 864   |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 109.3  | 9.6       |
| 10°-20°   | 283.6  | 24.8      |
| 20°-30°   | 361.3  | 31.7      |
| 30°-40°   | 255.3  | 22.4      |
| 40°-50°   | 93.2   | 8.2       |
| 50°-60°   | 25.8   | 2.3       |
| 60°-70°   | 9.4    | 0.8       |
| 70°-80°   | 3.3    | 0.3       |
| 80°-90°   | 0.3    | 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°    | 754.1  | 66.1      |
| 0°-40°    | 1009.5 | 88.4      |
| 0°-60°    | 1128.5 | 98.9      |
| 0°-90°    | 1141.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1141.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1190 |      |
| 5°  | 1169 | 109  |
| 15° | 1010 | 284  |
| 25° | 802  | 361  |
| 35° | 406  | 255  |
| 45° | 113  | 93   |
| 55° | 28   | 26   |
| 65° | 9    | 9    |
| 75° | 2    | 3    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1189.6 |
| 2.5°  | 1185.0 |
| 5°    | 1168.8 |
| 7.5°  | 1136.5 |
| 10°   | 1102.0 |
| 12.5° | 1055.9 |
| 15°   | 1009.7 |
| 17.5° | 963.6  |
| 20°   | 917.5  |
| 22.5° | 862.2  |
| 25°   | 802.3  |
| 27.5° | 719.3  |
| 30°   | 627.1  |
| 32.5° | 516.4  |
| 35°   | 405.7  |
| 37.5° | 308.9  |
| 40°   | 225.9  |
| 42.5° | 163.7  |
| 45°   | 113.0  |
| 47.5° | 76.1   |
| 50°   | 50.7   |
| 52.5° | 34.6   |
| 55°   | 27.7   |
| 57.5° | 20.7   |
| 60°   | 16.1   |
| 62.5° | 11.5   |
| 65°   | 9.2    |
| 67.5° | 6.9    |
| 70°   | 4.6    |
| 72.5° | 4.6    |
| 75°   | 2.3    |
| 77.5° | 2.3    |
| 80°   | 2.3    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)