

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: P364667

Luminaire Tested: **FLD6BX20D010-FEU6B12-8035-F6LBXVM1-LI-BTR86**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P364667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX20D010-FEU6B12-8035-F6LBXVM1-LI-BTR86  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, SPECULAR CLEAR REFLECTOR, BOTTOM TRIM POLYCARBONATE, CLEAR 0.250", 2000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1493.1 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 0.76 / 0.76 / 0.77  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

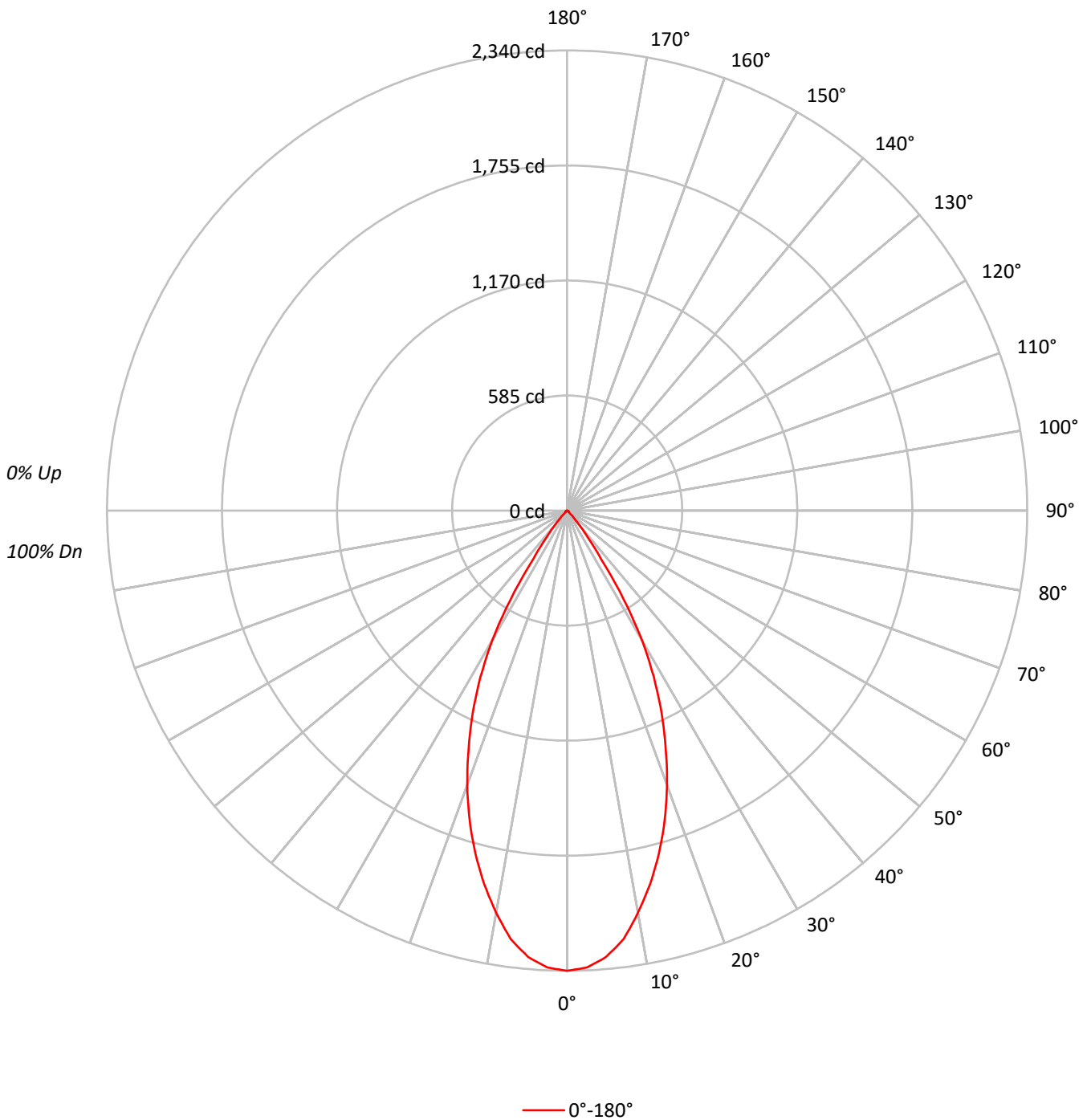
Input Watts (W): 20.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P364667

CATALOG NUMBER: FLD6BX20D010-FEU6B12-8035-F6LBXVM1-LI-BTR86

### Luminous Intensity Polar Plot





TEST NUMBER: P364667

CATALOG NUMBER: FLD6BX20D010-FEU6B12-8035-F6LBXVM1-LI-BTR86

**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   | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 |  | 101 | 100 | 99  |  | 98  | 97  | 96  | 94  |
| 2   | 109 | 104 | 100 | 97  | 107 | 102 | 99  | 96  | 99  | 96  | 94  |  | 96  | 94  | 92  |  | 94  | 92  | 90  | 89  |
| 3   | 104 | 98  | 93  | 90  | 102 | 97  | 92  | 89  | 94  | 90  | 87  |  | 92  | 89  | 86  |  | 89  | 87  | 85  | 83  |
| 4   | 99  | 92  | 87  | 83  | 97  | 91  | 86  | 83  | 89  | 85  | 82  |  | 87  | 84  | 81  |  | 85  | 82  | 80  | 78  |
| 5   | 95  | 87  | 82  | 78  | 93  | 86  | 81  | 77  | 84  | 80  | 77  |  | 83  | 79  | 76  |  | 81  | 78  | 75  | 74  |
| 6   | 91  | 82  | 77  | 73  | 89  | 82  | 76  | 73  | 80  | 76  | 72  |  | 79  | 75  | 72  |  | 78  | 74  | 71  | 70  |
| 7   | 87  | 78  | 73  | 69  | 85  | 77  | 72  | 69  | 76  | 72  | 68  |  | 75  | 71  | 68  |  | 74  | 70  | 68  | 66  |
| 8   | 83  | 74  | 69  | 65  | 82  | 74  | 68  | 65  | 73  | 68  | 65  |  | 72  | 67  | 64  |  | 71  | 67  | 64  | 63  |
| 9   | 79  | 71  | 65  | 62  | 78  | 70  | 65  | 61  | 69  | 65  | 61  |  | 68  | 64  | 61  |  | 68  | 64  | 61  | 60  |
| 10  | 76  | 67  | 62  | 58  | 75  | 67  | 62  | 58  | 66  | 61  | 58  |  | 65  | 61  | 58  |  | 65  | 61  | 58  | 57  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 167570 |
| 5°  | 163754 |
| 10° | 150960 |
| 15° | 133704 |
| 20° | 113198 |
| 25° | 89685  |
| 30° | 63026  |
| 35° | 26249  |
| 40° | 9010   |
| 45° | 2410   |
| 50° | 1326   |
| 55° | 1236   |
| 60° | 1131   |
| 65° | 1118   |
| 70° | 1110   |
| 75° | 1273   |
| 80° | 1649   |
| 85° | 2711   |



TEST NUMBER: P364667

CATALOG NUMBER: FLD6BX20D010-FEU6B12-8035-F6LBXVM1-LI-BTR86

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 211.1  | 14.1      |
| 10°-20°   | 500.4  | 33.5      |
| 20°-30°   | 513.7  | 34.4      |
| 30°-40°   | 217.5  | 14.6      |
| 40°-50°   | 26.8   | 1.8       |
| 50°-60°   | 8.9    | 0.6       |
| 60°-70°   | 6.5    | 0.4       |
| 70°-80°   | 5.1    | 0.3       |
| 80°-90°   | 3.1    | 0.2       |
| 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°    | 1225.2 | 82.1      |
| 0°-40°    | 1442.8 | 96.6      |
| 0°-60°    | 1478.4 | 99.0      |
| 0°-90°    | 1493.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1493.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 2340 |      |
| 5°  | 2278 | 211  |
| 15° | 1804 | 500  |
| 25° | 1135 | 514  |
| 35° | 300  | 218  |
| 45° | 24   | 27   |
| 55° | 10   | 9    |
| 65° | 7    | 7    |
| 75° | 5    | 5    |
| 85° | 3    | 3    |
| 90° | 0    |      |



TEST NUMBER: P364667

CATALOG NUMBER: FLD6BX20D010-FEU6B12-8035-F6LBXVM1-LI-BTR86

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 2340.3 |
| 2.5°  | 2325.1 |
| 5°    | 2278.3 |
| 7.5°  | 2197.8 |
| 10°   | 2076.3 |
| 12.5° | 1947.0 |
| 15°   | 1803.7 |
| 17.5° | 1650.0 |
| 20°   | 1485.6 |
| 22.5° | 1310.7 |
| 25°   | 1135.2 |
| 27.5° | 953.7  |
| 30°   | 762.3  |
| 32.5° | 537.2  |
| 35°   | 300.3  |
| 37.5° | 172.3  |
| 40°   | 96.4   |
| 42.5° | 50.8   |
| 45°   | 23.8   |
| 47.5° | 13.9   |
| 50°   | 11.9   |
| 52.5° | 10.6   |
| 55°   | 9.9    |
| 57.5° | 9.2    |
| 60°   | 7.9    |
| 62.5° | 7.3    |
| 65°   | 6.6    |
| 67.5° | 5.9    |
| 70°   | 5.3    |
| 72.5° | 5.3    |
| 75°   | 4.6    |
| 77.5° | 4.6    |
| 80°   | 4.0    |
| 82.5° | 4.0    |
| 85°   | 3.3    |
| 87.5° | 2.0    |
| 90°   | 0.0    |

(END OF REPORT)