

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: P365027

Luminaire Tested: **FLD6BX60D010TE-FEU6B67-8035-F6LBXVM1-LI-BTR86**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365027  
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: FLD6BX60D010TE-FEU6B67-8035-F6LBXVM1-LI-BTR86  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, SPECULAR CLEAR REFLECTOR, BOTTOM TRIM POLYCARBONATE, CLEAR 0.250", 6000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4433.1 lumens  
Efficiency: N/A  
Efficacy: 76.3 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

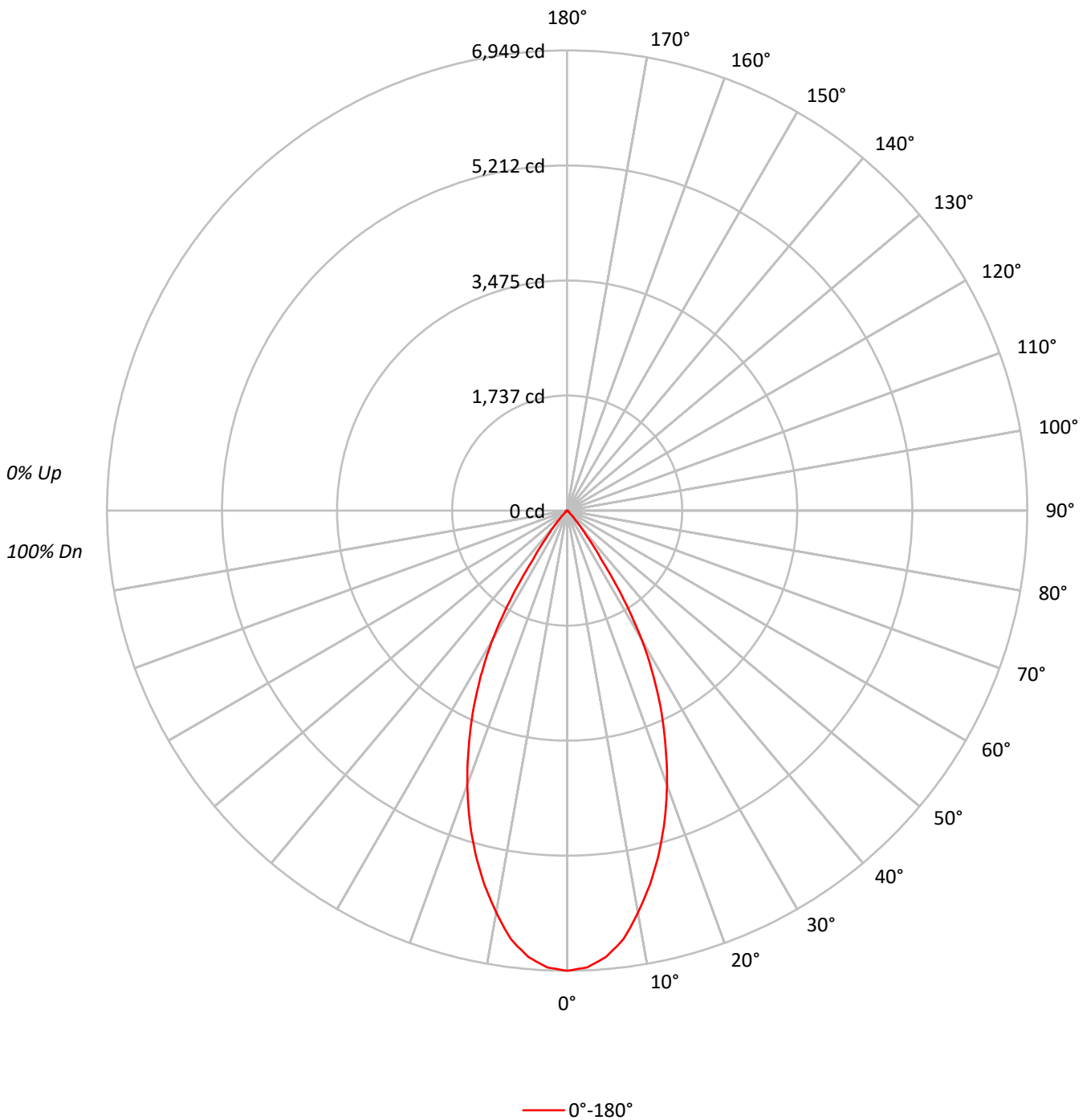
Input Watts (W): 58.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 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°  | 497547 |
| 5°  | 486208 |
| 10° | 448235 |
| 15° | 396998 |
| 20° | 336113 |
| 25° | 266291 |
| 30° | 187135 |
| 35° | 77935  |
| 40° | 26742  |
| 45° | 7139   |
| 50° | 3932   |
| 55° | 3670   |
| 60° | 3365   |
| 65° | 3321   |
| 70° | 3287   |
| 75° | 3790   |
| 80° | 4866   |
| 85° | 8051   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 626.9  | 14.1      |
| 10°-20°   | 1485.8 | 33.5      |
| 20°-30°   | 1525.3 | 34.4      |
| 30°-40°   | 645.9  | 14.6      |
| 40°-50°   | 79.4   | 1.8       |
| 50°-60°   | 26.3   | 0.6       |
| 60°-70°   | 19.4   | 0.4       |
| 70°-80°   | 15.0   | 0.3       |
| 80°-90°   | 9.1    | 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°    | 3637.9 | 82.1      |
| 0°-40°    | 4283.8 | 96.6      |
| 0°-60°    | 4389.5 | 99.0      |
| 0°-90°    | 4433.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4433.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 6949 |      |
| 5°  | 6765 | 627  |
| 15° | 5356 | 1486 |
| 25° | 3371 | 1525 |
| 35° | 892  | 646  |
| 45° | 70   | 79   |
| 55° | 29   | 26   |
| 65° | 20   | 19   |
| 75° | 14   | 15   |
| 85° | 10   | 9    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 6948.8 |
| 2.5°  | 6903.8 |
| 5°    | 6764.6 |
| 7.5°  | 6525.5 |
| 10°   | 6165.0 |
| 12.5° | 5780.9 |
| 15°   | 5355.6 |
| 17.5° | 4899.1 |
| 20°   | 4411.1 |
| 22.5° | 3891.8 |
| 25°   | 3370.6 |
| 27.5° | 2831.7 |
| 30°   | 2263.4 |
| 32.5° | 1595.1 |
| 35°   | 891.6  |
| 37.5° | 511.5  |
| 40°   | 286.1  |
| 42.5° | 150.9  |
| 45°   | 70.5   |
| 47.5° | 41.2   |
| 50°   | 35.3   |
| 52.5° | 31.4   |
| 55°   | 29.4   |
| 57.5° | 27.4   |
| 60°   | 23.5   |
| 62.5° | 21.6   |
| 65°   | 19.6   |
| 67.5° | 17.6   |
| 70°   | 15.7   |
| 72.5° | 15.7   |
| 75°   | 13.7   |
| 77.5° | 13.7   |
| 80°   | 11.8   |
| 82.5° | 11.8   |
| 85°   | 9.8    |
| 87.5° | 5.9    |
| 90°   | 0.0    |

(END OF REPORT)