

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: P366402

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8050-F6LBXVM1-WMH-BL85**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P366402  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX50D010TE-FEU6B35-8050-F6LBXVM1-WMH-BL85  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, WARM HAZE REFLECTOR, BOTTOM LENS POLYCARBONATE, CLEAR 0.187", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4716.0 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
CIE Type: Direct

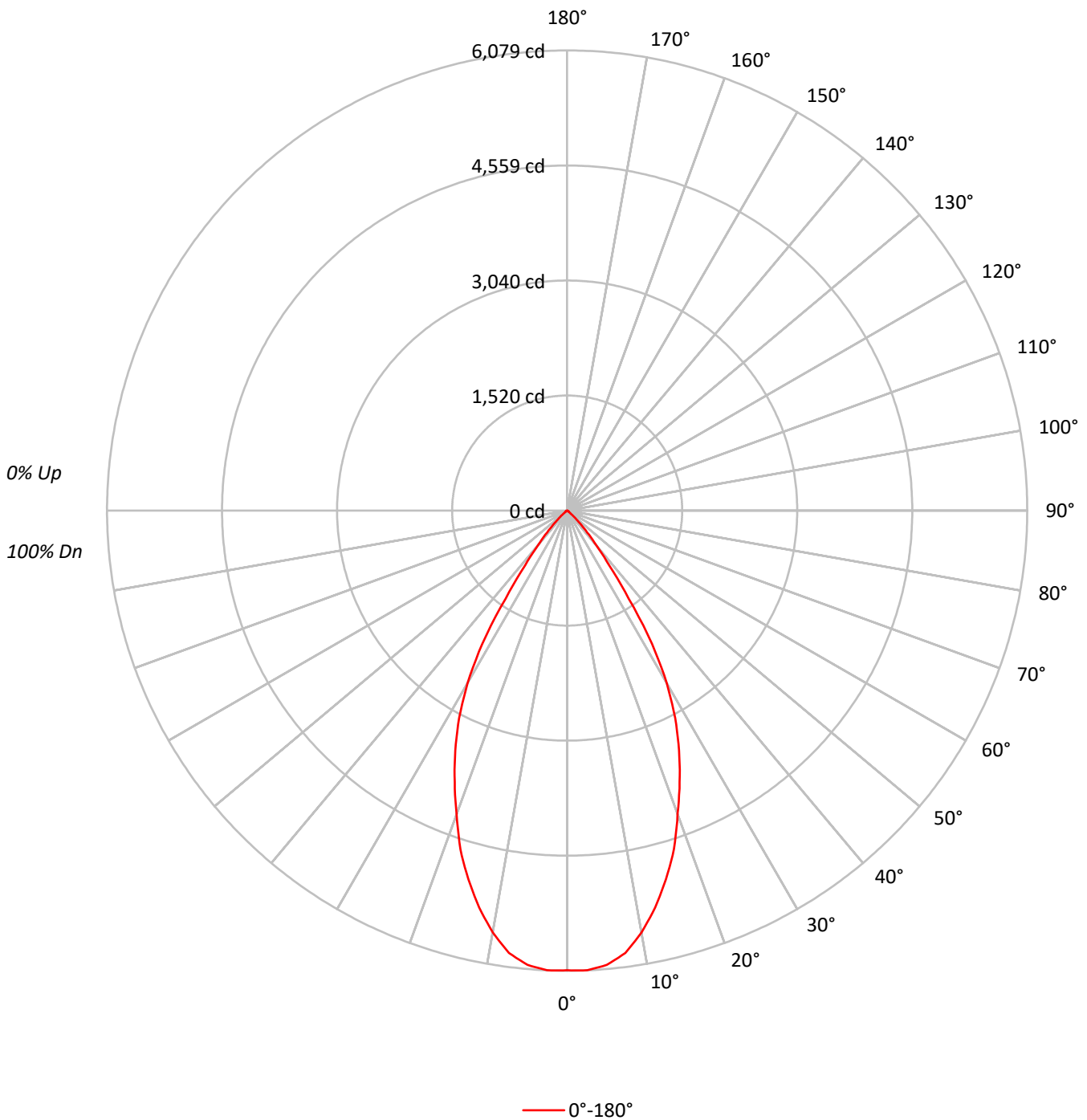
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 102 |  | 101 | 100 | 99  |  | 98  | 97  | 96  | 94  |
| 2   | 108 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 99  | 96  | 93  |  | 96  | 93  | 91  |  | 93  | 91  | 89  | 88  |
| 3   | 103 | 97  | 92  | 88  | 101 | 96  | 91  | 88  | 93  | 89  | 86  |  | 91  | 88  | 85  |  | 88  | 86  | 84  | 82  |
| 4   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 81  | 88  | 83  | 80  |  | 86  | 82  | 79  |  | 84  | 81  | 78  | 77  |
| 5   | 93  | 85  | 80  | 76  | 92  | 85  | 79  | 75  | 83  | 78  | 75  |  | 81  | 77  | 74  |  | 80  | 76  | 73  | 72  |
| 6   | 89  | 80  | 75  | 71  | 88  | 80  | 74  | 70  | 78  | 73  | 70  |  | 77  | 73  | 69  |  | 76  | 72  | 69  | 68  |
| 7   | 85  | 76  | 70  | 66  | 83  | 75  | 70  | 66  | 74  | 69  | 65  |  | 73  | 68  | 65  |  | 72  | 68  | 65  | 63  |
| 8   | 81  | 72  | 66  | 62  | 80  | 71  | 66  | 62  | 70  | 65  | 62  |  | 69  | 65  | 61  |  | 68  | 64  | 61  | 60  |
| 9   | 77  | 68  | 62  | 58  | 76  | 67  | 62  | 58  | 66  | 62  | 58  |  | 66  | 61  | 58  |  | 65  | 61  | 58  | 56  |
| 10  | 74  | 64  | 59  | 55  | 73  | 64  | 59  | 55  | 63  | 58  | 55  |  | 62  | 58  | 55  |  | 62  | 58  | 55  | 53  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 165905 |
| 5°  | 165209 |
| 10° | 156937 |
| 15° | 142554 |
| 20° | 124046 |
| 25° | 105463 |
| 30° | 82962  |
| 35° | 47334  |
| 40° | 21298  |
| 45° | 8966   |
| 50° | 2830   |
| 55° | 857    |
| 60° | 590    |
| 65° | 465    |
| 70° | 431    |
| 75° | 570    |
| 80° | 283    |
| 85° | 564    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 563.6  | 12.0      |
| 10°-20°   | 1402.3 | 29.7      |
| 20°-30°   | 1589.0 | 33.7      |
| 30°-40°   | 921.2  | 19.5      |
| 40°-50°   | 204.3  | 4.3       |
| 50°-60°   | 22.4   | 0.5       |
| 60°-70°   | 7.3    | 0.2       |
| 70°-80°   | 4.7    | 0.1       |
| 80°-90°   | 1.2    | 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°    | 3554.8 | 75.4      |
| 0°-40°    | 4476.0 | 94.9      |
| 0°-60°    | 4702.7 | 99.7      |
| 0°-90°    | 4716.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4716.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 6074 |      |
| 5°  | 6025 | 564  |
| 15° | 5041 | 1402 |
| 25° | 3499 | 1589 |
| 35° | 1420 | 921  |
| 45° | 232  | 204  |
| 55° | 18   | 22   |
| 65° | 7    | 7    |
| 75° | 5    | 5    |
| 85° | 2    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 6073.7 |
| 2.5°  | 6079.1 |
| 5°    | 6025.2 |
| 7.5°  | 5893.8 |
| 10°   | 5658.1 |
| 12.5° | 5372.1 |
| 15°   | 5041.0 |
| 17.5° | 4692.0 |
| 20°   | 4267.4 |
| 22.5° | 3884.2 |
| 25°   | 3499.2 |
| 27.5° | 3089.0 |
| 30°   | 2630.3 |
| 32.5° | 2088.7 |
| 35°   | 1419.5 |
| 37.5° | 912.1  |
| 40°   | 597.3  |
| 42.5° | 390.4  |
| 45°   | 232.1  |
| 47.5° | 129.5  |
| 50°   | 66.6   |
| 52.5° | 30.6   |
| 55°   | 18.0   |
| 57.5° | 14.4   |
| 60°   | 10.8   |
| 62.5° | 9.0    |
| 65°   | 7.2    |
| 67.5° | 5.4    |
| 70°   | 5.4    |
| 72.5° | 5.4    |
| 75°   | 5.4    |
| 77.5° | 3.6    |
| 80°   | 1.8    |
| 82.5° | 1.8    |
| 85°   | 1.8    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)