

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: P365647

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BL86**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BL86  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, MATTE WHITE REFLECTOR, BOTTOM LENS POLYCARBONATE, CLEAR 0.250", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3951.0 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.95  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
CIE Type: Direct

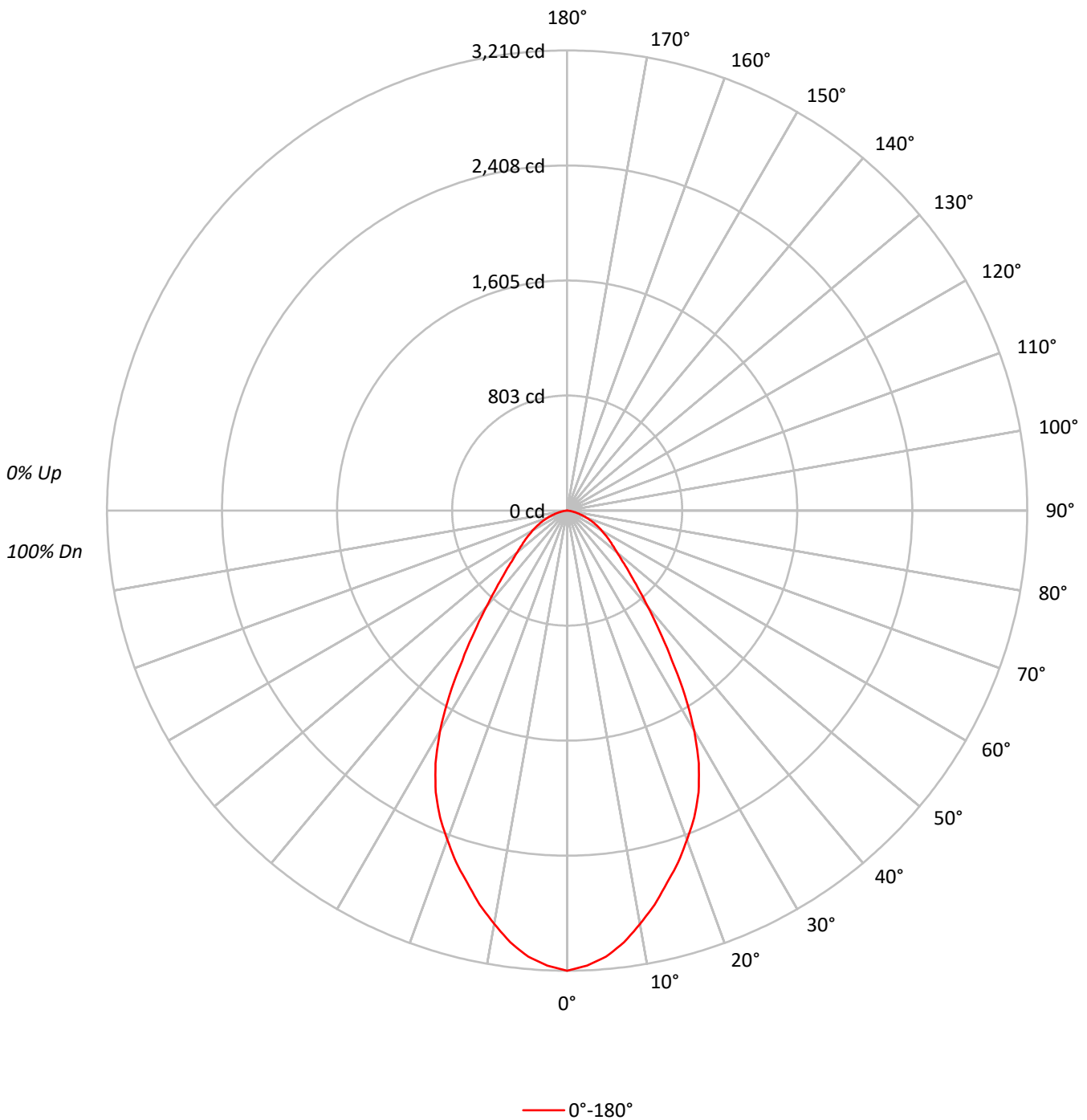
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97  |  | 98  | 96  | 95  |  | 95  | 93  | 92  | 90  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  |  | 90  | 87  | 84  |  | 87  | 84  | 82  | 80  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  |  | 83  | 78  | 75  |  | 80  | 77  | 74  | 72  |
| 4   | 91  | 82  | 75  | 70  | 89  | 80  | 74  | 69  | 78  | 73  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 68  | 63  | 84  | 74  | 67  | 62  | 72  | 66  | 62  |  | 70  | 65  | 61  |  | 69  | 64  | 61  | 59  |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 62  | 57  | 67  | 61  | 56  |  | 65  | 60  | 56  |  | 64  | 59  | 55  | 54  |
| 7   | 75  | 64  | 57  | 52  | 74  | 64  | 57  | 52  | 62  | 56  | 52  |  | 61  | 55  | 51  |  | 60  | 55  | 51  | 49  |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 52  | 48  | 58  | 52  | 47  |  | 57  | 51  | 47  |  | 56  | 51  | 47  | 45  |
| 9   | 67  | 56  | 49  | 44  | 66  | 55  | 49  | 44  | 54  | 48  | 44  |  | 53  | 48  | 44  |  | 52  | 47  | 44  | 42  |
| 10  | 64  | 52  | 46  | 41  | 62  | 52  | 45  | 41  | 51  | 45  | 41  |  | 50  | 45  | 41  |  | 49  | 44  | 41  | 39  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 87687 |
| 5°  | 85631 |
| 10° | 81205 |
| 15° | 76039 |
| 20° | 71014 |
| 25° | 65378 |
| 30° | 55878 |
| 35° | 42506 |
| 40° | 31150 |
| 45° | 23711 |
| 50° | 19339 |
| 55° | 17025 |
| 60° | 15149 |
| 65° | 13302 |
| 70° | 11277 |
| 75° | 8834  |
| 80° | 6040  |
| 85° | 2727  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 291.9  | 7.4       |
| 10°-20°   | 755.8  | 19.1      |
| 20°-30°   | 984.0  | 24.9      |
| 30°-40°   | 803.1  | 20.3      |
| 40°-50°   | 485.5  | 12.3      |
| 50°-60°   | 321.6  | 8.1       |
| 60°-70°   | 204.7  | 5.2       |
| 70°-80°   | 90.7   | 2.3       |
| 80°-90°   | 13.7   | 0.3       |
| 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°    | 2031.7 | 51.4      |
| 0°-40°    | 2834.9 | 71.8      |
| 0°-60°    | 3641.9 | 92.2      |
| 0°-90°    | 3951.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3951.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3210 |      |
| 5°  | 3123 | 292  |
| 15° | 2689 | 756  |
| 25° | 2169 | 984  |
| 35° | 1275 | 803  |
| 45° | 614  | 485  |
| 55° | 358  | 322  |
| 65° | 206  | 205  |
| 75° | 84   | 91   |
| 85° | 9    | 14   |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 3210.2 |
| 2.5°  | 3177.1 |
| 5°    | 3123.0 |
| 7.5°  | 3037.6 |
| 10°   | 2927.7 |
| 12.5° | 2816.1 |
| 15°   | 2688.9 |
| 17.5° | 2573.8 |
| 20°   | 2443.0 |
| 22.5° | 2317.4 |
| 25°   | 2169.2 |
| 27.5° | 1987.9 |
| 30°   | 1771.6 |
| 32.5° | 1529.3 |
| 35°   | 1274.7 |
| 37.5° | 1058.5 |
| 40°   | 873.6  |
| 42.5° | 727.1  |
| 45°   | 613.8  |
| 47.5° | 524.9  |
| 50°   | 455.1  |
| 52.5° | 401.1  |
| 55°   | 357.5  |
| 57.5° | 315.6  |
| 60°   | 277.3  |
| 62.5° | 240.6  |
| 65°   | 205.8  |
| 67.5° | 172.6  |
| 70°   | 141.2  |
| 72.5° | 111.6  |
| 75°   | 83.7   |
| 77.5° | 59.3   |
| 80°   | 38.4   |
| 82.5° | 20.9   |
| 85°   | 8.7    |
| 87.5° | 1.7    |
| 90°   | 0.0    |

(END OF REPORT)