

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: P366295

Luminaire Tested: **FLD6BX40D010-FEU6B35-8040-F6LBXVM1-WMH-BL86**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P366295  
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: FLD6BX40D010-FEU6B35-8040-F6LBXVM1-WMH-BL86  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, WARM HAZE REFLECTOR, BOTTOM LENS POLYCARBONATE, CLEAR 0.250", 4000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3660.0 lumens  
Efficiency: N/A  
Efficacy: 90.1 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

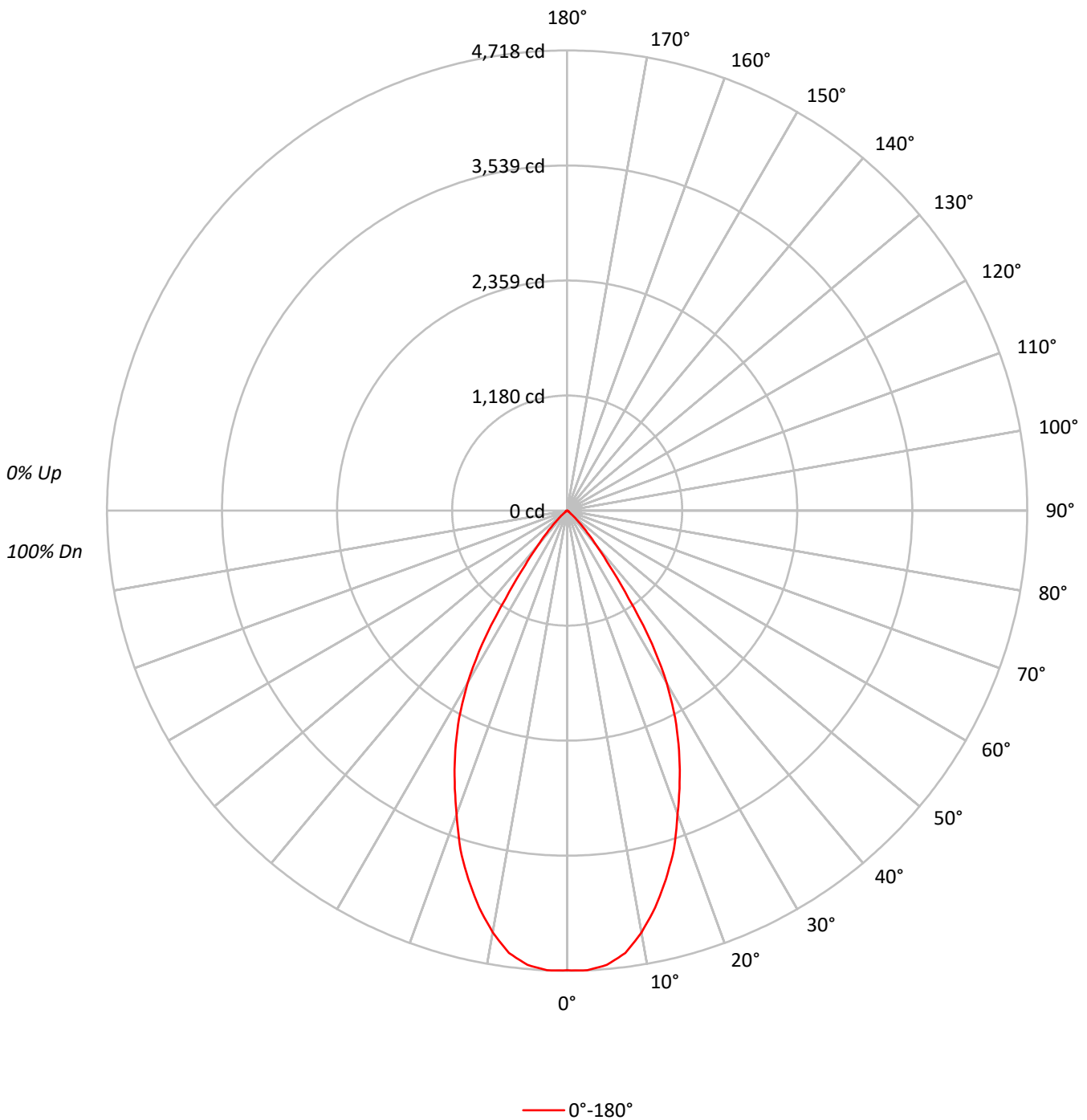
Input Watts (W): 40.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P366295

CATALOG NUMBER: FLD6BX40D010-FEU6B35-8040-F6LBXVM1-WMH-BL86

### Luminous Intensity Polar Plot





TEST NUMBER: P366295

CATALOG NUMBER: FLD6BX40D010-FEU6B35-8040-F6LBXVM1-WMH-BL86

**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°  | 128756 |
| 5°  | 128214 |
| 10° | 121797 |
| 15° | 110635 |
| 20° | 96271  |
| 25° | 81849  |
| 30° | 64385  |
| 35° | 36734  |
| 40° | 16531  |
| 45° | 6957   |
| 50° | 2197   |
| 55° | 667    |
| 60° | 459    |
| 65° | 362    |
| 70° | 335    |
| 75° | 443    |
| 80° | 220    |
| 85° | 439    |



TEST NUMBER: P366295

CATALOG NUMBER: FLD6BX40D010-FEU6B35-8040-F6LBXVM1-WMH-BL86

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 437.4  | 12.0      |
| 10°-20°   | 1088.3 | 29.7      |
| 20°-30°   | 1233.2 | 33.7      |
| 30°-40°   | 714.9  | 19.5      |
| 40°-50°   | 158.5  | 4.3       |
| 50°-60°   | 17.4   | 0.5       |
| 60°-70°   | 5.7    | 0.2       |
| 70°-80°   | 3.7    | 0.1       |
| 80°-90°   | 1.0    | 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°    | 2758.9 | 75.4      |
| 0°-40°    | 3473.8 | 94.9      |
| 0°-60°    | 3649.7 | 99.7      |
| 0°-90°    | 3660.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3660.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 4714 |      |
| 5°  | 4676 | 437  |
| 15° | 3912 | 1088 |
| 25° | 2716 | 1233 |
| 35° | 1102 | 715  |
| 45° | 180  | 159  |
| 55° | 14   | 17   |
| 65° | 6    | 6    |
| 75° | 4    | 4    |
| 85° | 1    | 1    |
| 90° | 0    |      |



TEST NUMBER: P366295

CATALOG NUMBER: FLD6BX40D010-FEU6B35-8040-F6LBXVM1-WMH-BL86

**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 4713.7 |
| 2.5°  | 4717.9 |
| 5°    | 4676.0 |
| 7.5°  | 4574.1 |
| 10°   | 4391.2 |
| 12.5° | 4169.2 |
| 15°   | 3912.3 |
| 17.5° | 3641.4 |
| 20°   | 3311.9 |
| 22.5° | 3014.5 |
| 25°   | 2715.7 |
| 27.5° | 2397.3 |
| 30°   | 2041.3 |
| 32.5° | 1621.0 |
| 35°   | 1101.6 |
| 37.5° | 707.9  |
| 40°   | 463.6  |
| 42.5° | 303.0  |
| 45°   | 180.1  |
| 47.5° | 100.5  |
| 50°   | 51.7   |
| 52.5° | 23.7   |
| 55°   | 14.0   |
| 57.5° | 11.2   |
| 60°   | 8.4    |
| 62.5° | 7.0    |
| 65°   | 5.6    |
| 67.5° | 4.2    |
| 70°   | 4.2    |
| 72.5° | 4.2    |
| 75°   | 4.2    |
| 77.5° | 2.8    |
| 80°   | 1.4    |
| 82.5° | 1.4    |
| 85°   | 1.4    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)