

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: P365162

Luminaire Tested: **FLD6BX10D010-FEU6B12-8027-F6LBXVM1-MW-BL87**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P365162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX10D010-FEU6B12-8027-F6LBXVM1-MW-BL87
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, MATTE WHITE REFLECTOR, BOTTOM LENS POLYCARBONATE, CLEAR 0.375", 1000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 747.1 lumens
Efficiency: N/A
Efficacy: 74.7 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

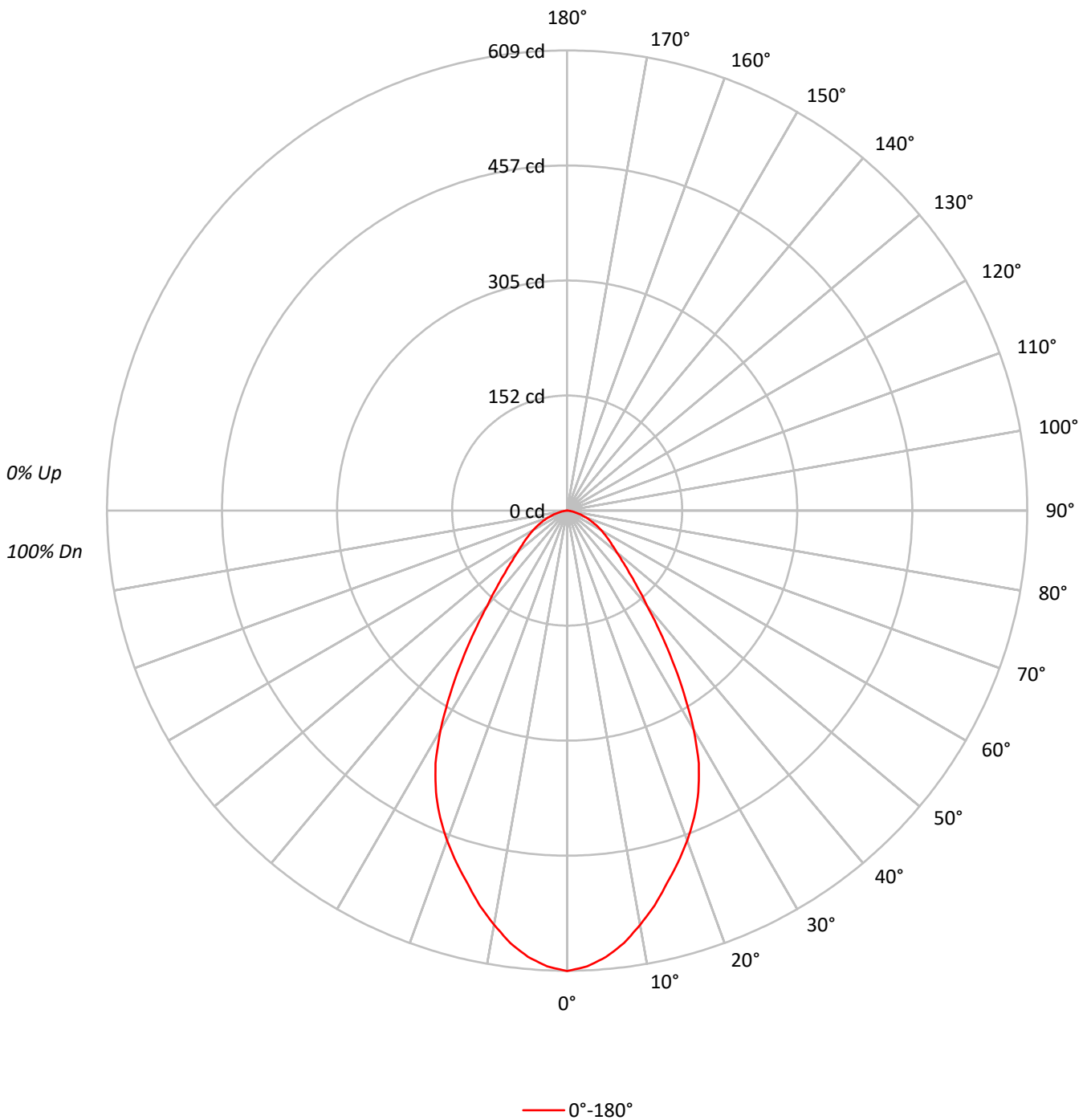
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 98 | | 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 | 81 | 74 | 69 | 78 | 73 | 68 | | 76 | 71 | 68 | | 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 | 79 | 69 | 62 | 57 | 67 | 61 | 56 | | 65 | 60 | 56 | | 64 | 59 | 56 | 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 | 53 | 48 | 58 | 52 | 48 | | 57 | 51 | 47 | | 56 | 51 | 47 | 46 |
| 9 | 67 | 56 | 49 | 44 | 66 | 55 | 49 | 44 | 54 | 48 | 44 | | 53 | 48 | 44 | | 52 | 47 | 44 | 42 |
| 10 | 64 | 52 | 46 | 41 | 63 | 52 | 46 | 41 | 51 | 45 | 41 | | 50 | 45 | 41 | | 49 | 44 | 41 | 39 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 16646 |
| 5° | 16257 |
| 10° | 15435 |
| 15° | 14434 |
| 20° | 13508 |
| 25° | 12390 |
| 30° | 10569 |
| 35° | 8093 |
| 40° | 5883 |
| 45° | 4489 |
| 50° | 3638 |
| 55° | 3191 |
| 60° | 2835 |
| 65° | 2469 |
| 70° | 2084 |
| 75° | 1636 |
| 80° | 1085 |
| 85° | 439 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.5 | 7.4 |
| 10°-20° | 143.5 | 19.2 |
| 20°-30° | 186.6 | 25.0 |
| 30°-40° | 152.1 | 20.4 |
| 40°-50° | 91.8 | 12.3 |
| 50°-60° | 60.3 | 8.1 |
| 60°-70° | 38.1 | 5.1 |
| 70°-80° | 16.7 | 2.2 |
| 80°-90° | 2.4 | 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° | 385.6 | 51.6 |
| 0°-40° | 537.7 | 72.0 |
| 0°-60° | 689.9 | 92.3 |
| 0°-90° | 747.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 747.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 609 | |
| 5° | 593 | 55 |
| 15° | 510 | 144 |
| 25° | 411 | 187 |
| 35° | 243 | 152 |
| 45° | 116 | 92 |
| 55° | 67 | 60 |
| 65° | 38 | 38 |
| 75° | 16 | 17 |
| 85° | 1 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 609.4 |
| 2.5° | 603.9 |
| 5° | 592.9 |
| 7.5° | 577.1 |
| 10° | 556.5 |
| 12.5° | 535.2 |
| 15° | 510.4 |
| 17.5° | 488.1 |
| 20° | 464.7 |
| 22.5° | 439.6 |
| 25° | 411.1 |
| 27.5° | 377.1 |
| 30° | 335.1 |
| 32.5° | 288.4 |
| 35° | 242.7 |
| 37.5° | 200.7 |
| 40° | 165.0 |
| 42.5° | 138.2 |
| 45° | 116.2 |
| 47.5° | 99.0 |
| 50° | 85.6 |
| 52.5° | 75.3 |
| 55° | 67.0 |
| 57.5° | 59.1 |
| 60° | 51.9 |
| 62.5° | 45.0 |
| 65° | 38.2 |
| 67.5° | 32.0 |
| 70° | 26.1 |
| 72.5° | 20.6 |
| 75° | 15.5 |
| 77.5° | 10.7 |
| 80° | 6.9 |
| 82.5° | 3.8 |
| 85° | 1.4 |
| 87.5° | 0.3 |
| 90° | 0.0 |

(END OF REPORT)