

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: P365937

Luminaire Tested: **FLD6BX10D010-FEU6B12-8040-F6LBXVM1-WMH-BL89AM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P365937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-48)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX10D010-FEU6B12-8040-F6LBXVM1-WMH-BL89AM
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, WARM HAZE REFLECTOR, BOTTOM LENS POLYCARBONATE, OPAL SMOOTH 0.125", 1000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 413.0 lumens
Efficiency: N/A
Efficacy: 41.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Circular (Dia: 0.71' x H: 0')
CIE Type: Direct

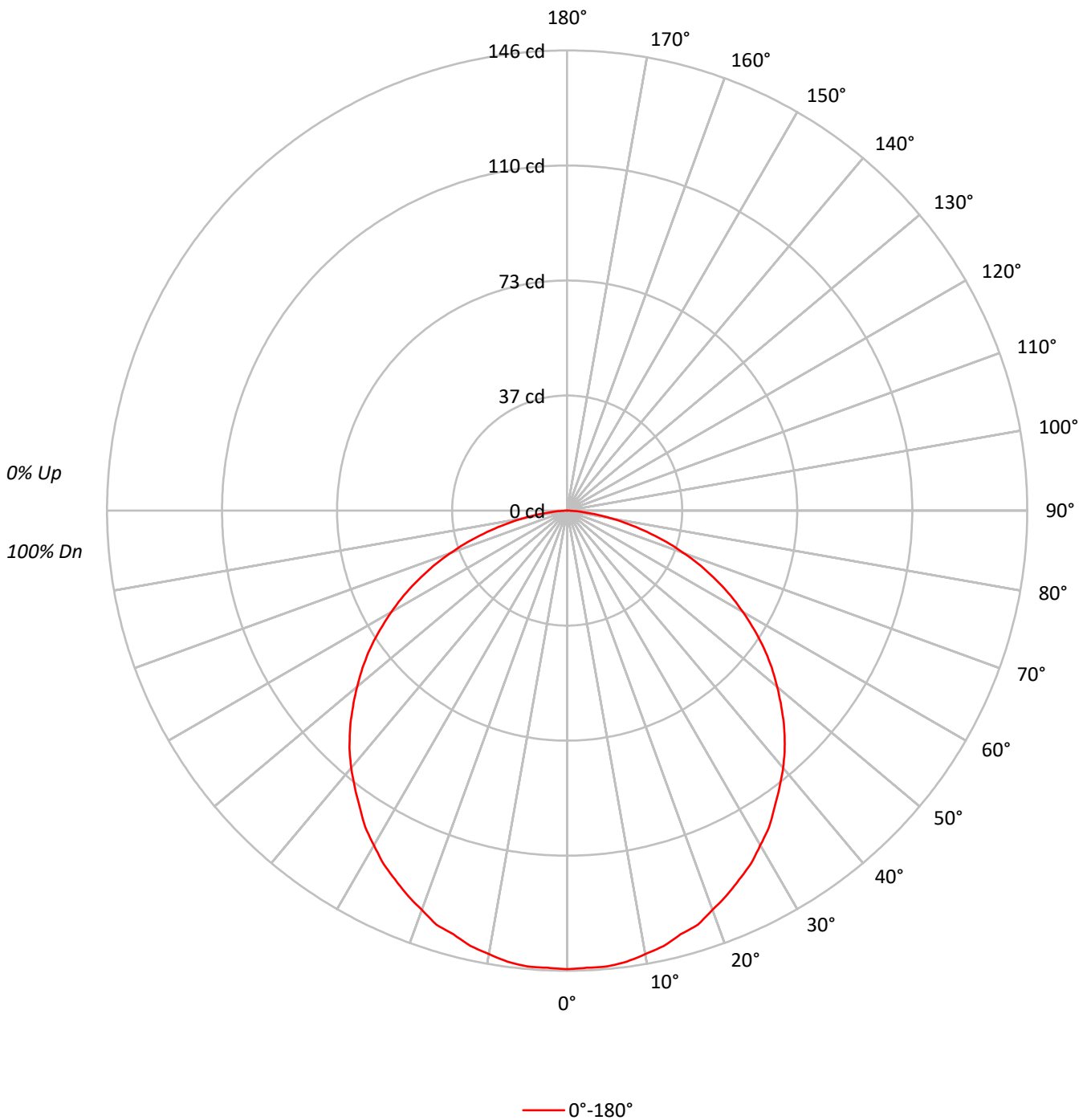
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 94 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 75 | 82 | 78 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 70 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 3974 |
| 5° | 3981 |
| 10° | 3964 |
| 15° | 3936 |
| 20° | 3918 |
| 25° | 3894 |
| 30° | 3867 |
| 35° | 3828 |
| 40° | 3801 |
| 45° | 3763 |
| 50° | 3697 |
| 55° | 3634 |
| 60° | 3518 |
| 65° | 3374 |
| 70° | 3139 |
| 75° | 2776 |
| 80° | 2218 |
| 85° | 1285 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 13.8 | 3.3 |
| 10°-20° | 39.4 | 9.5 |
| 20°-30° | 59.6 | 14.4 |
| 30°-40° | 71.9 | 17.4 |
| 40°-50° | 75.0 | 18.2 |
| 50°-60° | 68.0 | 16.5 |
| 60°-70° | 51.6 | 12.5 |
| 70°-80° | 27.9 | 6.8 |
| 80°-90° | 5.7 | 1.4 |
| 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° | 112.8 | 27.3 |
| 0°-40° | 184.7 | 44.7 |
| 0°-60° | 327.8 | 79.4 |
| 0°-90° | 413.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 413.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 146 | |
| 5° | 145 | 14 |
| 15° | 139 | 39 |
| 25° | 129 | 60 |
| 35° | 115 | 72 |
| 45° | 97 | 75 |
| 55° | 76 | 68 |
| 65° | 52 | 52 |
| 75° | 26 | 28 |
| 85° | 4 | 6 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 145.5 |
| 2.5° | 145.2 |
| 5° | 145.2 |
| 7.5° | 144.4 |
| 10° | 142.9 |
| 12.5° | 141.5 |
| 15° | 139.2 |
| 17.5° | 137.8 |
| 20° | 134.8 |
| 22.5° | 132.2 |
| 25° | 129.2 |
| 27.5° | 126.3 |
| 30° | 122.6 |
| 32.5° | 119.2 |
| 35° | 114.8 |
| 37.5° | 110.7 |
| 40° | 106.6 |
| 42.5° | 102.2 |
| 45° | 97.4 |
| 47.5° | 92.2 |
| 50° | 87.0 |
| 52.5° | 81.8 |
| 55° | 76.3 |
| 57.5° | 70.4 |
| 60° | 64.4 |
| 62.5° | 58.5 |
| 65° | 52.2 |
| 67.5° | 45.9 |
| 70° | 39.3 |
| 72.5° | 33.0 |
| 75° | 26.3 |
| 77.5° | 20.0 |
| 80° | 14.1 |
| 82.5° | 8.9 |
| 85° | 4.1 |
| 87.5° | 1.1 |
| 90° | 0.0 |

(END OF REPORT)