

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: P364462

Luminaire Tested: **FLD6BX10D010-FEU6B12-8030-F6LBXVM1-LI-BL89BV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-41)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX10D010-FEU6B12-8030-F6LBXVM1-LI-BL89BV
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, SPECULAR CLEAR REFLECTOR,
BOTTOM LENS ACRYLIC, CLEAR 0.125", 1000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1002.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.82
Luminous Opening: Circular (Dia: 0.71' x H: 0')
CIE Type: Direct

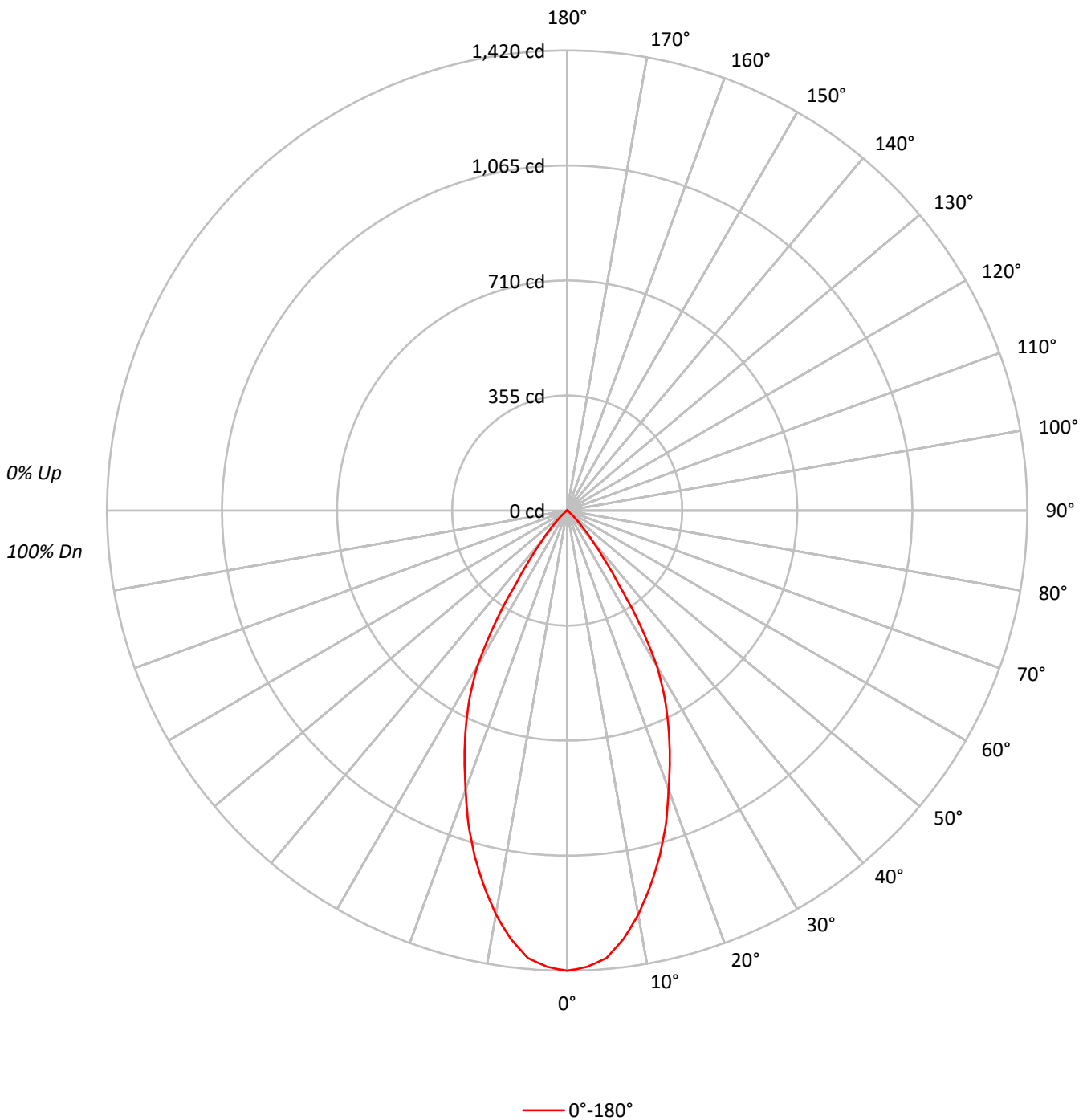
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 93 | 91 | 90 | 88 |
| 3 | 103 | 97 | 93 | 89 | 101 | 96 | 92 | 88 | 93 | 90 | 87 | 91 | 88 | 85 | 89 | 86 | 84 | 83 |
| 4 | 99 | 91 | 86 | 82 | 97 | 90 | 85 | 82 | 88 | 84 | 81 | 86 | 83 | 80 | 84 | 81 | 79 | 77 |
| 5 | 94 | 86 | 81 | 76 | 92 | 85 | 80 | 76 | 83 | 79 | 75 | 82 | 78 | 75 | 80 | 77 | 74 | 73 |
| 6 | 90 | 81 | 75 | 71 | 88 | 80 | 75 | 71 | 79 | 74 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 68 |
| 7 | 85 | 77 | 71 | 67 | 84 | 76 | 71 | 67 | 75 | 70 | 66 | 74 | 69 | 66 | 72 | 69 | 66 | 64 |
| 8 | 82 | 73 | 67 | 63 | 80 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 65 | 62 | 69 | 65 | 62 | 61 |
| 9 | 78 | 69 | 63 | 59 | 77 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 66 | 62 | 59 | 57 |
| 10 | 74 | 65 | 60 | 56 | 74 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 63 | 59 | 56 | 54 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 38793 |
| 5° | 38006 |
| 10° | 35087 |
| 15° | 31189 |
| 20° | 26618 |
| 25° | 22300 |
| 30° | 17480 |
| 35° | 9217 |
| 40° | 4304 |
| 45° | 1692 |
| 50° | 442 |
| 55° | 119 |
| 60° | 76 |
| 65° | 71 |
| 70° | 56 |
| 75° | 74 |
| 80° | 63 |
| 85° | 125 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.3 | 12.8 |
| 10°-20° | 306.3 | 30.6 |
| 20°-30° | 336.9 | 33.6 |
| 30°-40° | 186.0 | 18.6 |
| 40°-50° | 39.2 | 3.9 |
| 50°-60° | 3.2 | 0.3 |
| 60°-70° | 1.0 | 0.1 |
| 70°-80° | 0.8 | 0.1 |
| 80°-90° | 0.4 | 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° | 771.5 | 77.0 |
| 0°-40° | 957.4 | 95.6 |
| 0°-60° | 999.9 | 99.8 |
| 0°-90° | 1002.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1002.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1420 | |
| 5° | 1386 | 128 |
| 15° | 1103 | 306 |
| 25° | 740 | 337 |
| 35° | 276 | 186 |
| 45° | 44 | 39 |
| 55° | 2 | 3 |
| 65° | 1 | 1 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1420.2 |
| 2.5° | 1409.5 |
| 5° | 1386.1 |
| 7.5° | 1333.3 |
| 10° | 1265.0 |
| 12.5° | 1186.6 |
| 15° | 1102.9 |
| 17.5° | 1013.1 |
| 20° | 915.7 |
| 22.5° | 827.3 |
| 25° | 739.9 |
| 27.5° | 651.2 |
| 30° | 554.2 |
| 32.5° | 421.9 |
| 35° | 276.4 |
| 37.5° | 183.6 |
| 40° | 120.7 |
| 42.5° | 76.2 |
| 45° | 43.8 |
| 47.5° | 23.0 |
| 50° | 10.4 |
| 52.5° | 4.3 |
| 55° | 2.5 |
| 57.5° | 1.8 |
| 60° | 1.4 |
| 62.5° | 1.1 |
| 65° | 1.1 |
| 67.5° | 0.7 |
| 70° | 0.7 |
| 72.5° | 1.1 |
| 75° | 0.7 |
| 77.5° | 0.7 |
| 80° | 0.4 |
| 82.5° | 0.4 |
| 85° | 0.4 |
| 87.5° | 0.4 |
| 90° | 0.0 |

(END OF REPORT)