

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: P365402

Luminaire Tested: **FLD6BX20D010-FEU6B12-8040-F6LBXVM1-MW-BTR82**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P365402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX20D010-FEU6B12-8040-F6LBXVM1-MW-BTR82
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,
BOTTOM TRIM POLYCARBONATE, PATTERN 12 0.187", 2000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1119.0 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.09
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

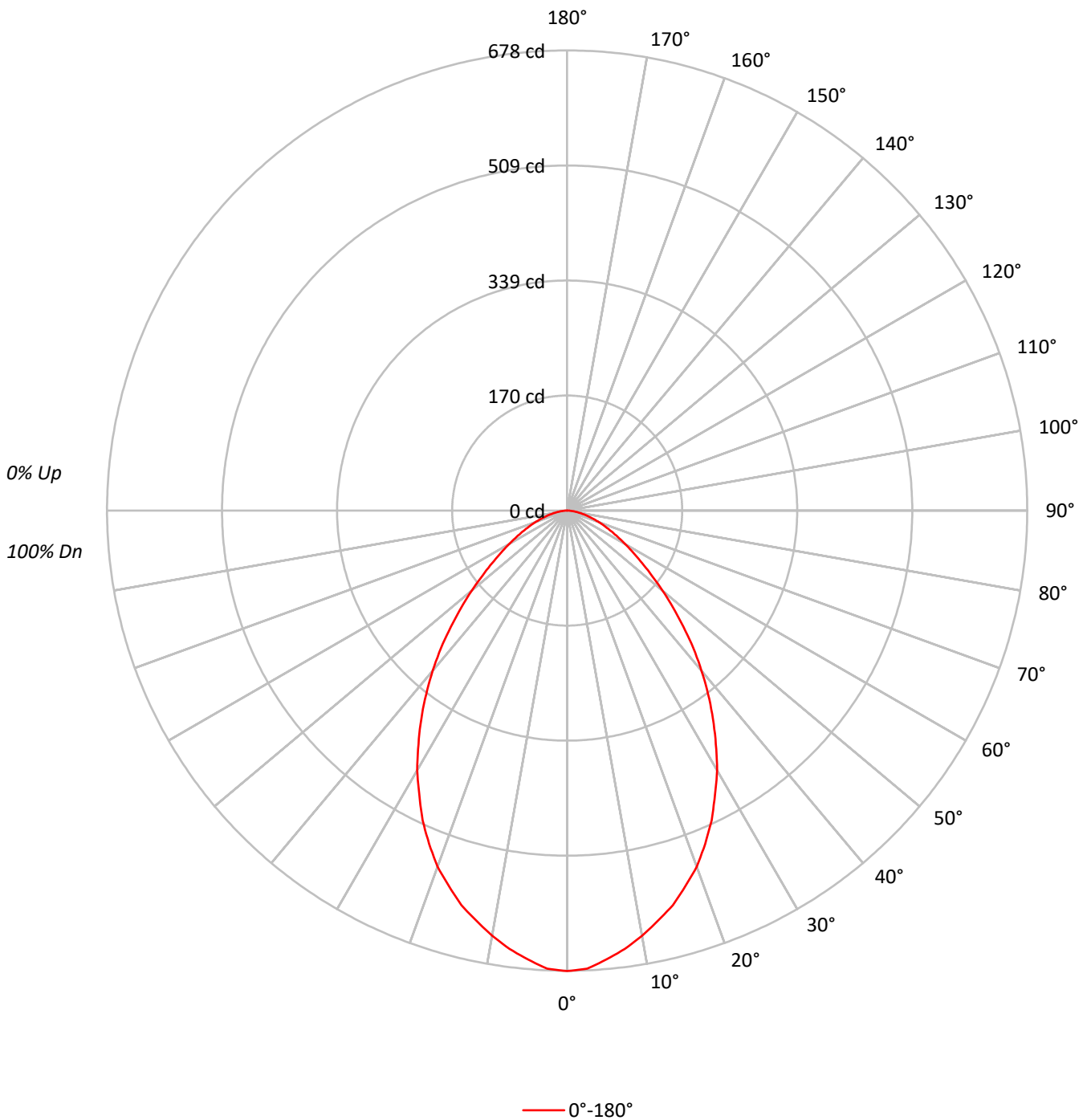
Input Watts (W): 20.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 77 | 72 | 79 | 75 | 71 | 77 | 73 | 70 | 68 |
| 4 | 88 | 78 | 71 | 65 | 86 | 77 | 70 | 64 | 74 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 62 | 60 |
| 5 | 82 | 71 | 63 | 58 | 80 | 70 | 63 | 57 | 68 | 62 | 57 | 66 | 61 | 56 | 64 | 59 | 56 | 54 |
| 6 | 77 | 65 | 57 | 52 | 75 | 64 | 57 | 51 | 62 | 56 | 51 | 61 | 55 | 50 | 59 | 54 | 50 | 48 |
| 7 | 72 | 60 | 52 | 46 | 70 | 59 | 52 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 45 | 44 |
| 8 | 67 | 55 | 47 | 42 | 66 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 41 | 40 |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 35 | 45 | 39 | 35 | 44 | 39 | 35 | 34 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 48575 |
| 5° | 47711 |
| 10° | 46249 |
| 15° | 44632 |
| 20° | 42548 |
| 25° | 39786 |
| 30° | 36536 |
| 35° | 32744 |
| 40° | 28789 |
| 45° | 24515 |
| 50° | 20474 |
| 55° | 16803 |
| 60° | 14106 |
| 65° | 11995 |
| 70° | 10447 |
| 75° | 8825 |
| 80° | 7133 |
| 85° | 5669 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.5 | 5.6 |
| 10°-20° | 168.8 | 15.1 |
| 20°-30° | 230.6 | 20.6 |
| 30°-40° | 233.7 | 20.9 |
| 40°-50° | 187.4 | 16.8 |
| 50°-60° | 122.1 | 10.9 |
| 60°-70° | 71.3 | 6.4 |
| 70°-80° | 34.3 | 3.1 |
| 80°-90° | 8.2 | 0.7 |
| 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° | 462.0 | 41.3 |
| 0°-40° | 695.7 | 62.2 |
| 0°-60° | 1005.3 | 89.8 |
| 0°-90° | 1119.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1119.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 678 | |
| 5° | 664 | 63 |
| 15° | 602 | 169 |
| 25° | 504 | 231 |
| 35° | 375 | 234 |
| 45° | 242 | 187 |
| 55° | 135 | 122 |
| 65° | 71 | 71 |
| 75° | 32 | 34 |
| 85° | 7 | 8 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 678.4 |
| 2.5° | 675.6 |
| 5° | 663.8 |
| 7.5° | 651.3 |
| 10° | 636.1 |
| 12.5° | 618.7 |
| 15° | 602.1 |
| 17.5° | 579.9 |
| 20° | 558.4 |
| 22.5° | 531.3 |
| 25° | 503.6 |
| 27.5° | 471.7 |
| 30° | 441.9 |
| 32.5° | 407.9 |
| 35° | 374.6 |
| 37.5° | 341.3 |
| 40° | 308.0 |
| 42.5° | 275.4 |
| 45° | 242.1 |
| 47.5° | 211.6 |
| 50° | 183.8 |
| 52.5° | 156.8 |
| 55° | 134.6 |
| 57.5° | 115.1 |
| 60° | 98.5 |
| 62.5° | 83.9 |
| 65° | 70.8 |
| 67.5° | 59.7 |
| 70° | 49.9 |
| 72.5° | 40.2 |
| 75° | 31.9 |
| 77.5° | 24.3 |
| 80° | 17.3 |
| 82.5° | 11.8 |
| 85° | 6.9 |
| 87.5° | 2.8 |
| 90° | 0.0 |

(END OF REPORT)