

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: P366092

Luminaire Tested: **FLD6BX20D010-FEU6B12-8030-F6LBXVM1-WMH-BTR89BV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P366092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX20D010-FEU6B12-8030-F6LBXVM1-WMH-BTR89BV
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, WARM HAZE REFLECTOR,
BOTTOM TRIM ACRYLIC, CLEAR 0.125", 2000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1564.1 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.8
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

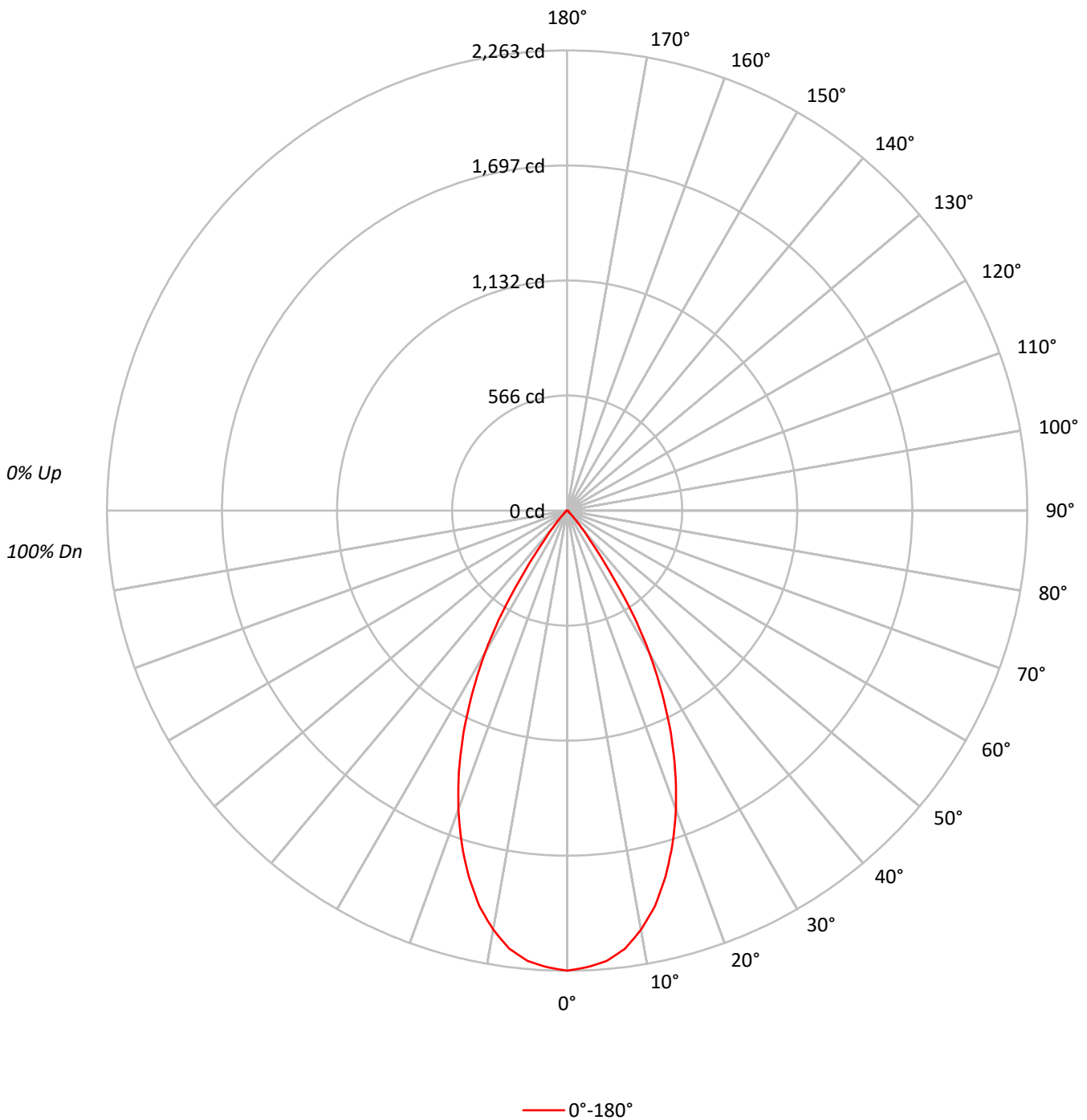
Input Watts (W): 20.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 92 | 90 | 88 |
| 3 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 89 | 94 | 90 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 82 | 89 | 85 | 81 | 87 | 83 | 80 | 85 | 82 | 80 | 78 |
| 5 | 94 | 87 | 81 | 77 | 93 | 86 | 81 | 77 | 84 | 80 | 76 | 82 | 79 | 76 | 81 | 78 | 75 | 74 |
| 6 | 90 | 82 | 76 | 72 | 89 | 81 | 76 | 72 | 80 | 75 | 72 | 78 | 74 | 71 | 77 | 74 | 71 | 69 |
| 7 | 86 | 78 | 72 | 68 | 85 | 77 | 72 | 68 | 76 | 71 | 68 | 75 | 70 | 67 | 74 | 70 | 67 | 66 |
| 8 | 82 | 74 | 68 | 64 | 81 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 |
| 9 | 79 | 70 | 65 | 61 | 78 | 70 | 64 | 61 | 69 | 64 | 61 | 68 | 63 | 60 | 67 | 63 | 60 | 59 |
| 10 | 76 | 67 | 61 | 58 | 75 | 66 | 61 | 58 | 65 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 56 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 162006 |
| 5° | 159822 |
| 10° | 152131 |
| 15° | 138293 |
| 20° | 119088 |
| 25° | 95200 |
| 30° | 66747 |
| 35° | 31048 |
| 40° | 9814 |
| 45° | 3068 |
| 50° | 1348 |
| 55° | 1261 |
| 60° | 1160 |
| 65° | 1033 |
| 70° | 1130 |
| 75° | 1300 |
| 80° | 1649 |
| 85° | 2793 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 208.1 | 13.3 |
| 10°-20° | 517.3 | 33.1 |
| 20°-30° | 543.8 | 34.8 |
| 30°-40° | 241.3 | 15.4 |
| 40°-50° | 30.2 | 1.9 |
| 50°-60° | 9.0 | 0.6 |
| 60°-70° | 6.3 | 0.4 |
| 70°-80° | 5.0 | 0.3 |
| 80°-90° | 2.9 | 0.2 |
| 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° | 1269.3 | 81.2 |
| 0°-40° | 1510.6 | 96.6 |
| 0°-60° | 1549.8 | 99.1 |
| 0°-90° | 1564.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1564.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2263 | |
| 5° | 2224 | 208 |
| 15° | 1866 | 517 |
| 25° | 1205 | 544 |
| 35° | 355 | 241 |
| 45° | 30 | 30 |
| 55° | 10 | 9 |
| 65° | 6 | 6 |
| 75° | 5 | 5 |
| 85° | 3 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2262.6 |
| 2.5° | 2247.8 |
| 5° | 2223.6 |
| 7.5° | 2173.8 |
| 10° | 2092.4 |
| 12.5° | 1992.8 |
| 15° | 1865.6 |
| 17.5° | 1722.3 |
| 20° | 1562.9 |
| 22.5° | 1390.0 |
| 25° | 1205.0 |
| 27.5° | 1008.5 |
| 30° | 807.3 |
| 32.5° | 594.1 |
| 35° | 355.2 |
| 37.5° | 189.1 |
| 40° | 105.0 |
| 42.5° | 57.2 |
| 45° | 30.3 |
| 47.5° | 14.8 |
| 50° | 12.1 |
| 52.5° | 10.8 |
| 55° | 10.1 |
| 57.5° | 9.4 |
| 60° | 8.1 |
| 62.5° | 7.4 |
| 65° | 6.1 |
| 67.5° | 5.4 |
| 70° | 5.4 |
| 72.5° | 4.7 |
| 75° | 4.7 |
| 77.5° | 4.7 |
| 80° | 4.0 |
| 82.5° | 3.4 |
| 85° | 3.4 |
| 87.5° | 2.0 |
| 90° | 0.0 |

(END OF REPORT)