

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: P365389

Luminaire Tested: **FLD6BX20D010-FEU6B12-8035-F6LBXVM1-MW-BTR89BI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P365389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX20D010-FEU6B12-8035-F6LBXVM1-MW-BTR89BI
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,
BOTTOM TRIM ACRYLIC, CLEAR RFI 0.125", 2000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1189.0 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.84
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

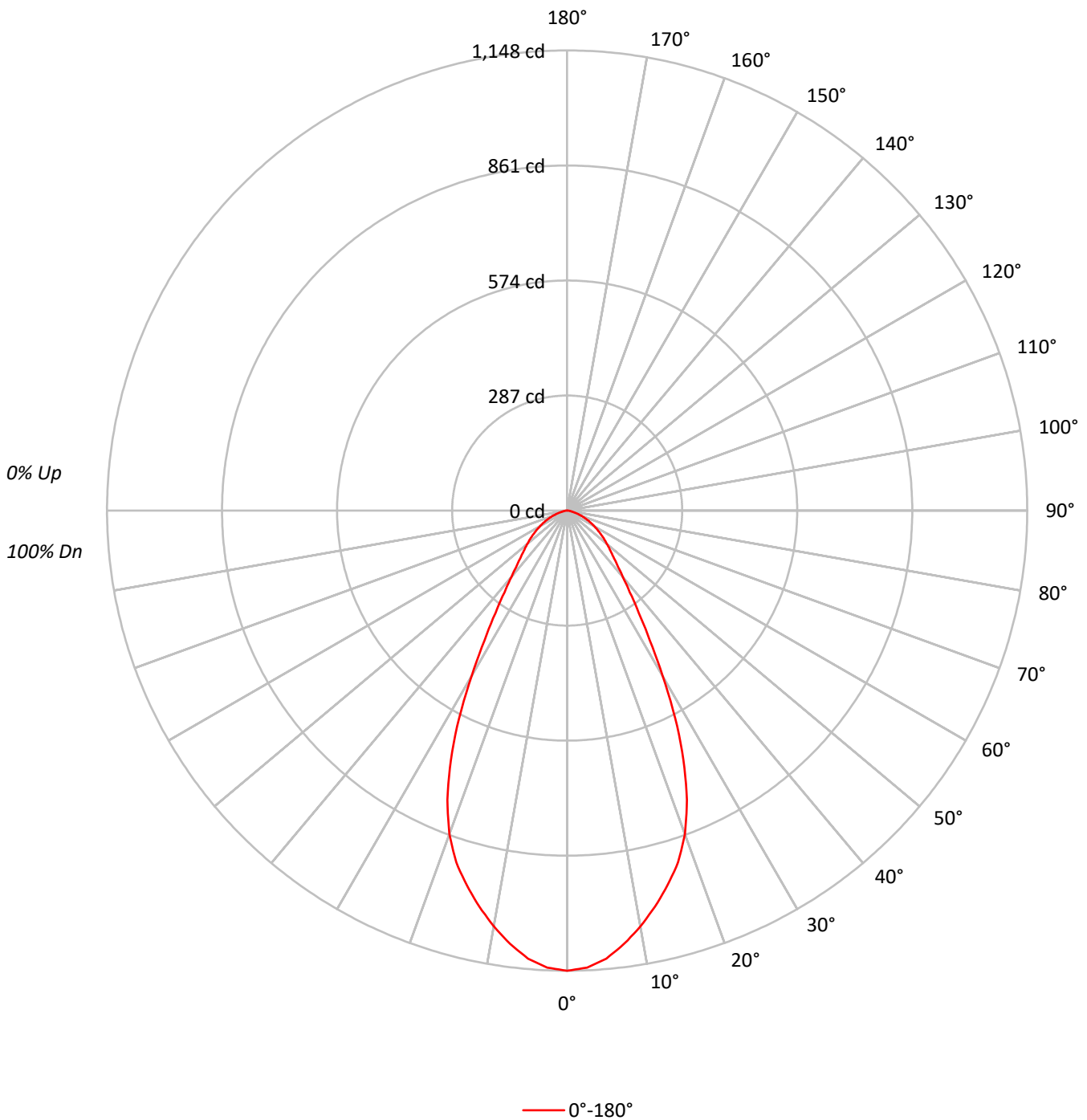
Input Watts (W): 20.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 109 | 106 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98 | | 99 | 97 | 95 | | 95 | 94 | 92 | 90 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | | 91 | 88 | 85 | | 88 | 85 | 83 | 81 |
| 3 | 98 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 86 | 82 | 78 | | 84 | 80 | 77 | | 82 | 78 | 75 | 74 |
| 4 | 92 | 83 | 77 | 72 | 90 | 82 | 76 | 71 | 80 | 75 | 70 | | 78 | 73 | 70 | | 76 | 72 | 69 | 67 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 68 | 64 | | 72 | 67 | 64 | | 71 | 66 | 63 | 61 |
| 6 | 82 | 72 | 65 | 60 | 80 | 71 | 64 | 59 | 69 | 63 | 59 | | 68 | 62 | 58 | | 66 | 62 | 58 | 56 |
| 7 | 77 | 67 | 60 | 55 | 76 | 66 | 59 | 55 | 65 | 59 | 54 | | 63 | 58 | 54 | | 62 | 57 | 54 | 52 |
| 8 | 73 | 62 | 56 | 51 | 72 | 62 | 55 | 51 | 61 | 55 | 50 | | 59 | 54 | 50 | | 58 | 54 | 50 | 48 |
| 9 | 69 | 59 | 52 | 47 | 68 | 58 | 52 | 47 | 57 | 51 | 47 | | 56 | 51 | 47 | | 55 | 50 | 47 | 45 |
| 10 | 66 | 55 | 49 | 44 | 65 | 55 | 48 | 44 | 54 | 48 | 44 | | 53 | 48 | 44 | | 52 | 47 | 44 | 42 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 82199 |
| 5° | 80637 |
| 10° | 76582 |
| 15° | 71719 |
| 20° | 65461 |
| 25° | 54268 |
| 30° | 39372 |
| 35° | 27228 |
| 40° | 20143 |
| 45° | 16465 |
| 50° | 14448 |
| 55° | 12845 |
| 60° | 11199 |
| 65° | 9539 |
| 70° | 7620 |
| 75° | 5505 |
| 80° | 3958 |
| 85° | 4518 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.8 | 8.8 |
| 10°-20° | 270.5 | 22.8 |
| 20°-30° | 309.4 | 26.0 |
| 30°-40° | 200.6 | 16.9 |
| 40°-50° | 127.9 | 10.8 |
| 50°-60° | 92.1 | 7.7 |
| 60°-70° | 56.0 | 4.7 |
| 70°-80° | 22.3 | 1.9 |
| 80°-90° | 5.2 | 0.4 |
| 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° | 684.8 | 57.6 |
| 0°-40° | 885.4 | 74.5 |
| 0°-60° | 1105.5 | 93.0 |
| 0°-90° | 1189.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1189.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1148 | |
| 5° | 1122 | 105 |
| 15° | 968 | 271 |
| 25° | 687 | 309 |
| 35° | 312 | 201 |
| 45° | 163 | 128 |
| 55° | 103 | 92 |
| 65° | 56 | 56 |
| 75° | 20 | 22 |
| 85° | 6 | 5 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1148.0 |
| 2.5° | 1141.1 |
| 5° | 1121.9 |
| 7.5° | 1090.3 |
| 10° | 1053.3 |
| 12.5° | 1012.1 |
| 15° | 967.5 |
| 17.5° | 920.2 |
| 20° | 859.1 |
| 22.5° | 780.9 |
| 25° | 686.9 |
| 27.5° | 583.9 |
| 30° | 476.2 |
| 32.5° | 383.6 |
| 35° | 311.5 |
| 37.5° | 256.6 |
| 40° | 215.5 |
| 42.5° | 185.3 |
| 45° | 162.6 |
| 47.5° | 144.8 |
| 50° | 129.7 |
| 52.5° | 116.0 |
| 55° | 102.9 |
| 57.5° | 89.9 |
| 60° | 78.2 |
| 62.5° | 67.2 |
| 65° | 56.3 |
| 67.5° | 46.0 |
| 70° | 36.4 |
| 72.5° | 28.1 |
| 75° | 19.9 |
| 77.5° | 13.7 |
| 80° | 9.6 |
| 82.5° | 6.2 |
| 85° | 5.5 |
| 87.5° | 2.7 |
| 90° | 0.0 |

(END OF REPORT)