

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: P365403

Luminaire Tested: **FLD6BX20D010-FEU6B12-8040-F6LBXVM1-MW-BTR84**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P365403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-15)
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-BTR84
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,
BOTTOM TRIM POLYCARBONATE, CLEAR 0.125", 2000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1232.0 lumens
Efficiency: N/A
Efficacy: 60.7 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

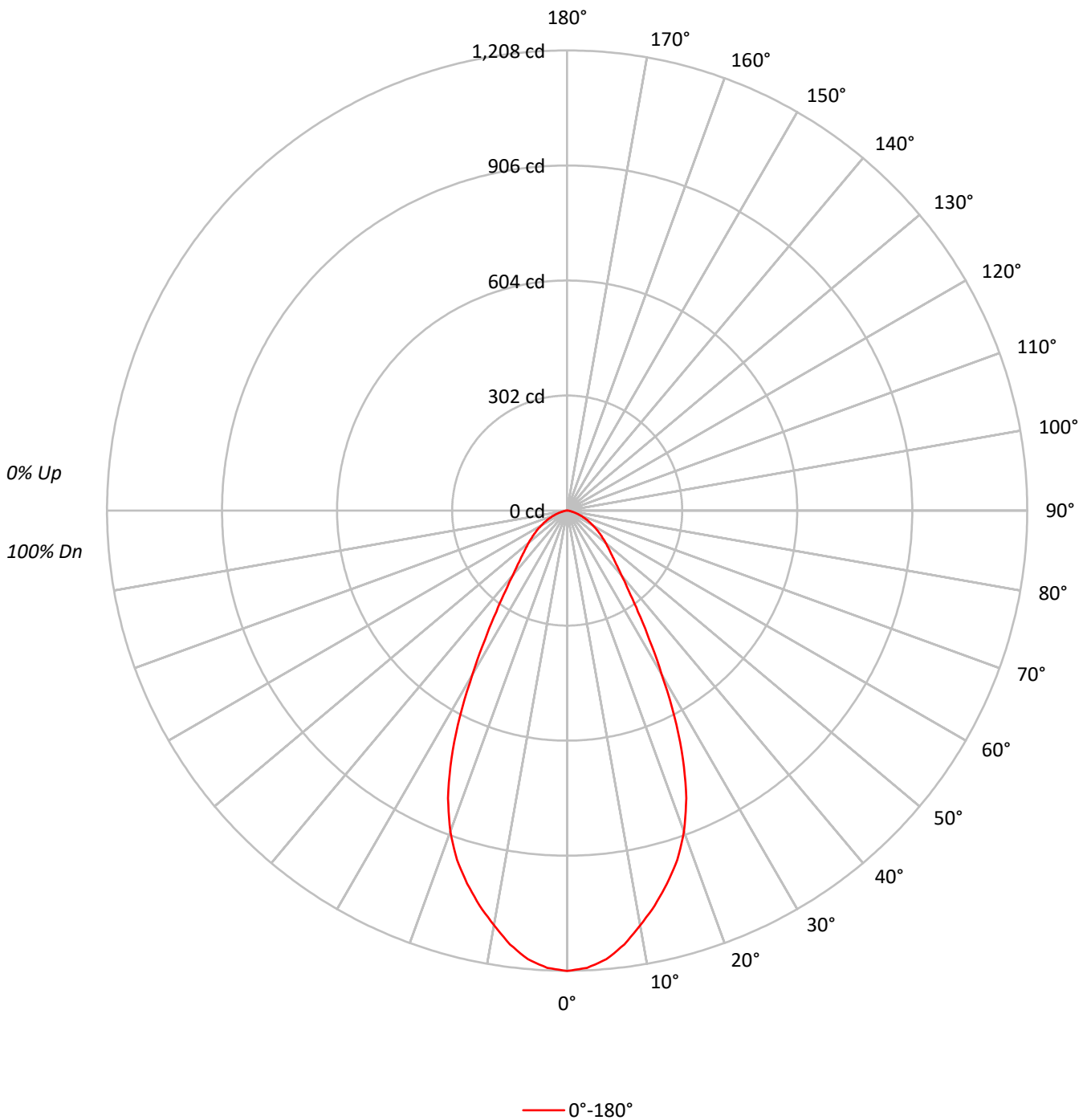
Input Watts (W): 20.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 110 | 107 | 104 | 101 | 102 | 100 | 98 | | 99 | 97 | 95 | | 95 | 94 | 93 | 91 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | | 91 | 88 | 85 | | 88 | 86 | 84 | 82 |
| 3 | 99 | 91 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 78 | | 84 | 80 | 77 | | 82 | 79 | 76 | 74 |
| 4 | 93 | 84 | 77 | 72 | 91 | 82 | 76 | 72 | 80 | 75 | 71 | | 78 | 74 | 70 | | 76 | 72 | 69 | 67 |
| 5 | 87 | 77 | 71 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 65 | | 73 | 68 | 64 | | 71 | 67 | 63 | 62 |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 64 | 60 | 69 | 64 | 59 | | 68 | 63 | 59 | | 67 | 62 | 58 | 57 |
| 7 | 78 | 67 | 60 | 55 | 76 | 66 | 60 | 55 | 65 | 59 | 55 | | 64 | 58 | 54 | | 62 | 58 | 54 | 53 |
| 8 | 73 | 63 | 56 | 51 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | | 60 | 55 | 51 | | 59 | 54 | 50 | 49 |
| 9 | 70 | 59 | 52 | 48 | 68 | 58 | 52 | 48 | 57 | 52 | 47 | | 56 | 51 | 47 | | 55 | 51 | 47 | 46 |
| 10 | 66 | 55 | 49 | 45 | 65 | 55 | 49 | 45 | 54 | 48 | 44 | | 53 | 48 | 44 | | 52 | 48 | 44 | 43 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 86531 |
| 5° | 84971 |
| 10° | 80355 |
| 15° | 75143 |
| 20° | 68311 |
| 25° | 56859 |
| 30° | 41042 |
| 35° | 28364 |
| 40° | 20741 |
| 45° | 16850 |
| 50° | 14670 |
| 55° | 12895 |
| 60° | 11213 |
| 65° | 9522 |
| 70° | 7683 |
| 75° | 5367 |
| 80° | 3422 |
| 85° | 4026 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.4 | 9.0 |
| 10°-20° | 283.2 | 23.0 |
| 20°-30° | 323.5 | 26.3 |
| 30°-40° | 208.7 | 16.9 |
| 40°-50° | 131.0 | 10.6 |
| 50°-60° | 92.9 | 7.5 |
| 60°-70° | 56.0 | 4.5 |
| 70°-80° | 21.6 | 1.8 |
| 80°-90° | 4.7 | 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° | 717.1 | 58.2 |
| 0°-40° | 925.7 | 75.1 |
| 0°-60° | 1149.7 | 93.3 |
| 0°-90° | 1232.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1232.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1208 | |
| 5° | 1182 | 110 |
| 15° | 1014 | 283 |
| 25° | 720 | 323 |
| 35° | 324 | 209 |
| 45° | 166 | 131 |
| 55° | 103 | 93 |
| 65° | 56 | 56 |
| 75° | 19 | 22 |
| 85° | 5 | 5 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1208.5 |
| 2.5° | 1201.6 |
| 5° | 1182.2 |
| 7.5° | 1148.9 |
| 10° | 1105.2 |
| 12.5° | 1062.2 |
| 15° | 1013.7 |
| 17.5° | 961.7 |
| 20° | 896.5 |
| 22.5° | 817.5 |
| 25° | 719.7 |
| 27.5° | 609.5 |
| 30° | 496.4 |
| 32.5° | 401.4 |
| 35° | 324.5 |
| 37.5° | 264.9 |
| 40° | 221.9 |
| 42.5° | 190.7 |
| 45° | 166.4 |
| 47.5° | 147.7 |
| 50° | 131.7 |
| 52.5° | 117.2 |
| 55° | 103.3 |
| 57.5° | 90.8 |
| 60° | 78.3 |
| 62.5° | 67.3 |
| 65° | 56.2 |
| 67.5° | 45.8 |
| 70° | 36.7 |
| 72.5° | 27.0 |
| 75° | 19.4 |
| 77.5° | 13.2 |
| 80° | 8.3 |
| 82.5° | 5.5 |
| 85° | 4.9 |
| 87.5° | 2.8 |
| 90° | 0.0 |

(END OF REPORT)