

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: P365382

Luminaire Tested: **FLD6BX20D010-FEU6B12-8035-F6LBXVM1-MW-BTR80**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P365382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-14)
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-BTR80
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,
BOTTOM TRIM ACRYLIC, PATTERN 12 0.125", 2000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1190.0 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.95
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

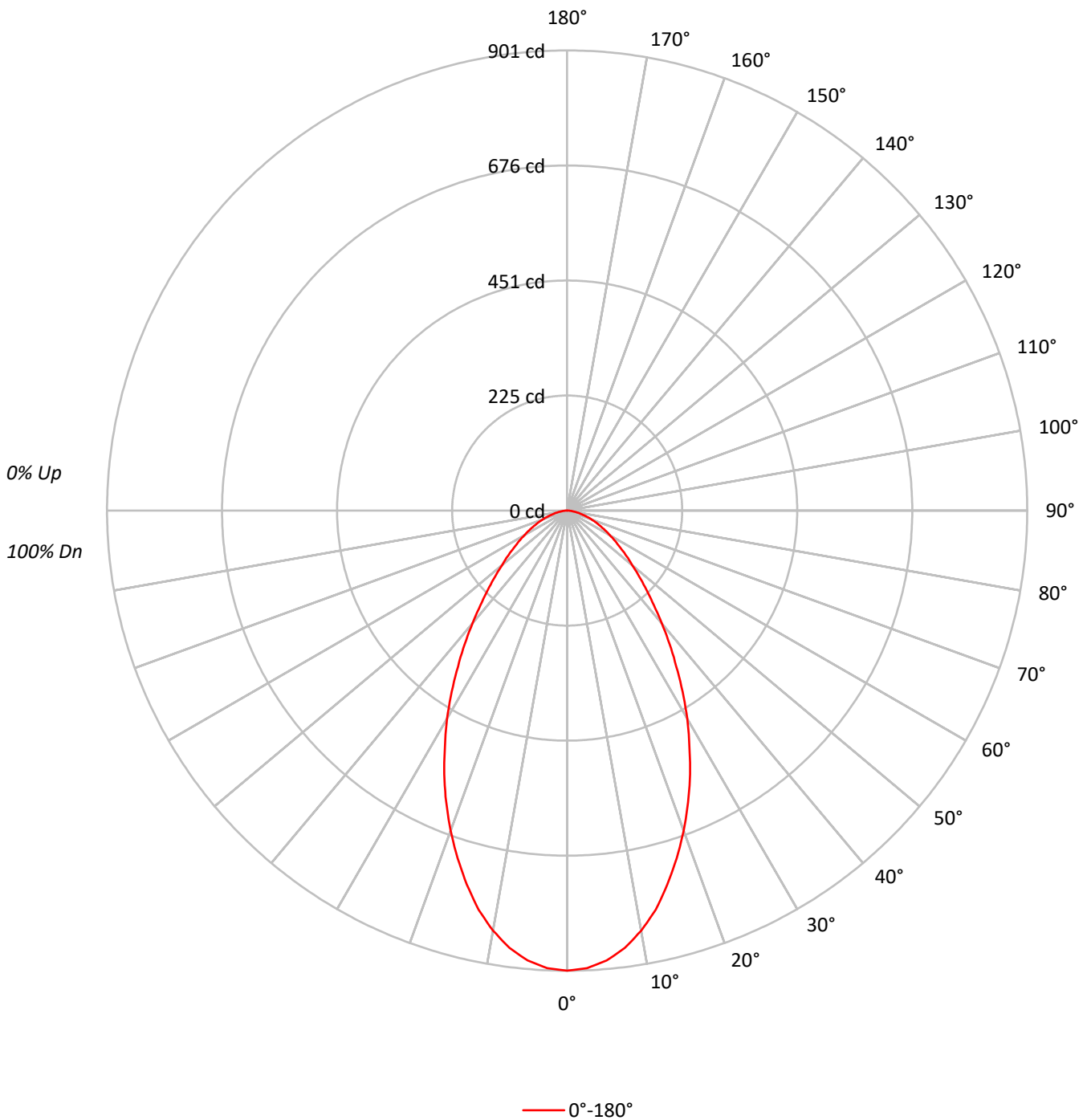
Input Watts (W): 20.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 80 | 78 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 78 | 75 | 72 | 70 |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 66 | 62 | 58 | 56 |
| 6 | 78 | 67 | 60 | 54 | 77 | 66 | 59 | 54 | 65 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 51 |
| 7 | 74 | 62 | 55 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 59 | 53 | 49 | 57 | 52 | 48 | 47 |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 49 | 45 | 55 | 49 | 45 | 53 | 48 | 44 | 43 |
| 9 | 65 | 54 | 46 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 64499 |
| 5° | 63567 |
| 10° | 60710 |
| 15° | 56196 |
| 20° | 50816 |
| 25° | 44993 |
| 30° | 38859 |
| 35° | 32560 |
| 40° | 26938 |
| 45° | 22227 |
| 50° | 18569 |
| 55° | 15929 |
| 60° | 13848 |
| 65° | 12199 |
| 70° | 10635 |
| 75° | 8908 |
| 80° | 7340 |
| 85° | 5669 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.9 | 7.0 |
| 10°-20° | 211.8 | 17.8 |
| 20°-30° | 260.5 | 21.9 |
| 30°-40° | 233.6 | 19.6 |
| 40°-50° | 170.9 | 14.4 |
| 50°-60° | 115.6 | 9.7 |
| 60°-70° | 71.8 | 6.0 |
| 70°-80° | 34.7 | 2.9 |
| 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° | 555.2 | 46.7 |
| 0°-40° | 788.7 | 66.3 |
| 0°-60° | 1075.2 | 90.4 |
| 0°-90° | 1190.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1190.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 901 | |
| 5° | 884 | 83 |
| 15° | 758 | 212 |
| 25° | 570 | 261 |
| 35° | 372 | 234 |
| 45° | 220 | 171 |
| 55° | 128 | 116 |
| 65° | 72 | 72 |
| 75° | 32 | 35 |
| 85° | 7 | 8 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 900.8 |
| 2.5° | 896.7 |
| 5° | 884.4 |
| 7.5° | 863.8 |
| 10° | 835.0 |
| 12.5° | 800.7 |
| 15° | 758.1 |
| 17.5° | 713.5 |
| 20° | 666.9 |
| 22.5° | 618.8 |
| 25° | 569.5 |
| 27.5° | 518.0 |
| 30° | 470.0 |
| 32.5° | 420.6 |
| 35° | 372.5 |
| 37.5° | 329.3 |
| 40° | 288.2 |
| 42.5° | 251.1 |
| 45° | 219.5 |
| 47.5° | 191.4 |
| 50° | 166.7 |
| 52.5° | 146.8 |
| 55° | 127.6 |
| 57.5° | 111.8 |
| 60° | 96.7 |
| 62.5° | 83.7 |
| 65° | 72.0 |
| 67.5° | 61.1 |
| 70° | 50.8 |
| 72.5° | 41.2 |
| 75° | 32.2 |
| 77.5° | 24.0 |
| 80° | 17.8 |
| 82.5° | 11.7 |
| 85° | 6.9 |
| 87.5° | 2.7 |
| 90° | 0.0 |

(END OF REPORT)