

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: P365379

Luminaire Tested: **FLD6BX20D010-FEU6B12-8035-F6LBXVM1-MW-BL89AM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P365379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-40)
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-BL89AM
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, MATTE WHITE REFLECTOR, BOTTOM LENS POLYCARBONATE, OPAL SMOOTH 0.125", 2000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 696.1 lumens
Efficiency: N/A
Efficacy: 34.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Circular (Dia: 0.71' x H: 0')
CIE Type: Direct

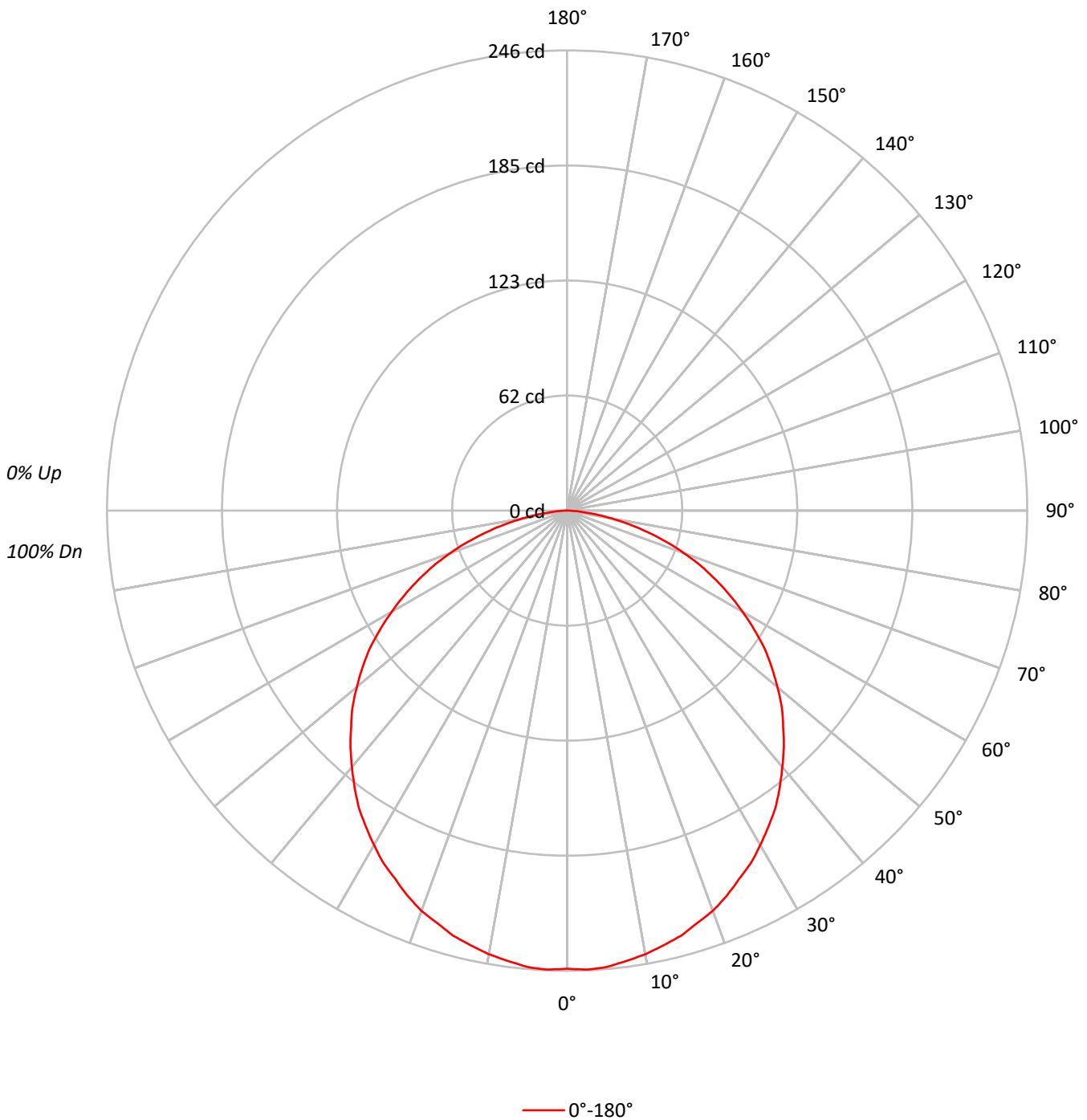
Input Watts (W): 20.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 94 | 92 | | 94 | 91 | 89 | | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 75 | | 82 | 78 | 74 | | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 69 | 63 | | 72 | 67 | 62 | | 70 | 65 | 61 | 59 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 59 | 54 | | 64 | 58 | 53 | | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | | 58 | 51 | 46 | | 56 | 50 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | | 52 | 45 | 40 | | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | | 47 | 41 | 36 | | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | | 43 | 37 | 32 | | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | | 40 | 33 | 29 | | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 38 | 31 | 26 | | 37 | 31 | 26 | | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|------|
| | 0° |
| 0° | 6690 |
| 5° | 6715 |
| 10° | 6679 |
| 15° | 6654 |
| 20° | 6619 |
| 25° | 6552 |
| 30° | 6513 |
| 35° | 6472 |
| 40° | 6383 |
| 45° | 6308 |
| 50° | 6238 |
| 55° | 6143 |
| 60° | 5922 |
| 65° | 5675 |
| 70° | 5311 |
| 75° | 4707 |
| 80° | 3775 |
| 85° | 2163 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 23.2 | 3.3 |
| 10°-20° | 66.3 | 9.5 |
| 20°-30° | 100.4 | 14.4 |
| 30°-40° | 121.2 | 17.4 |
| 40°-50° | 126.2 | 18.1 |
| 50°-60° | 114.8 | 16.5 |
| 60°-70° | 86.8 | 12.5 |
| 70°-80° | 47.4 | 6.8 |
| 80°-90° | 9.8 | 1.4 |
| 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° | 189.9 | 27.3 |
| 0°-40° | 311.1 | 44.7 |
| 0°-60° | 552.1 | 79.3 |
| 0°-90° | 696.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 696.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 245 | |
| 5° | 245 | 23 |
| 15° | 235 | 66 |
| 25° | 217 | 100 |
| 35° | 194 | 121 |
| 45° | 163 | 126 |
| 55° | 129 | 115 |
| 65° | 88 | 87 |
| 75° | 45 | 47 |
| 85° | 7 | 10 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 244.9 |
| 2.5° | 245.6 |
| 5° | 244.9 |
| 7.5° | 242.8 |
| 10° | 240.8 |
| 12.5° | 238.0 |
| 15° | 235.3 |
| 17.5° | 231.2 |
| 20° | 227.7 |
| 22.5° | 222.9 |
| 25° | 217.4 |
| 27.5° | 212.6 |
| 30° | 206.5 |
| 32.5° | 200.3 |
| 35° | 194.1 |
| 37.5° | 186.6 |
| 40° | 179.0 |
| 42.5° | 171.5 |
| 45° | 163.3 |
| 47.5° | 155.7 |
| 50° | 146.8 |
| 52.5° | 137.9 |
| 55° | 129.0 |
| 57.5° | 118.7 |
| 60° | 108.4 |
| 62.5° | 98.1 |
| 65° | 87.8 |
| 67.5° | 77.5 |
| 70° | 66.5 |
| 72.5° | 55.6 |
| 75° | 44.6 |
| 77.5° | 34.3 |
| 80° | 24.0 |
| 82.5° | 15.1 |
| 85° | 6.9 |
| 87.5° | 2.1 |
| 90° | 0.0 |

(END OF REPORT)