

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: P364621

Luminaire Tested: **FLD6BX20D010-FEU6B12-8027-F6LBXVM1-LI-BL86**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P364621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-43)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX20D010-FEU6B12-8027-F6LBXVM1-LI-BL86
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, SPECULAR CLEAR REFLECTOR,
BOTTOM LENS POLYCARBONATE, CLEAR 0.250", 2000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1680.0 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.82
Luminous Opening: Circular (Dia: 0.71' x H: 0')
CIE Type: Direct

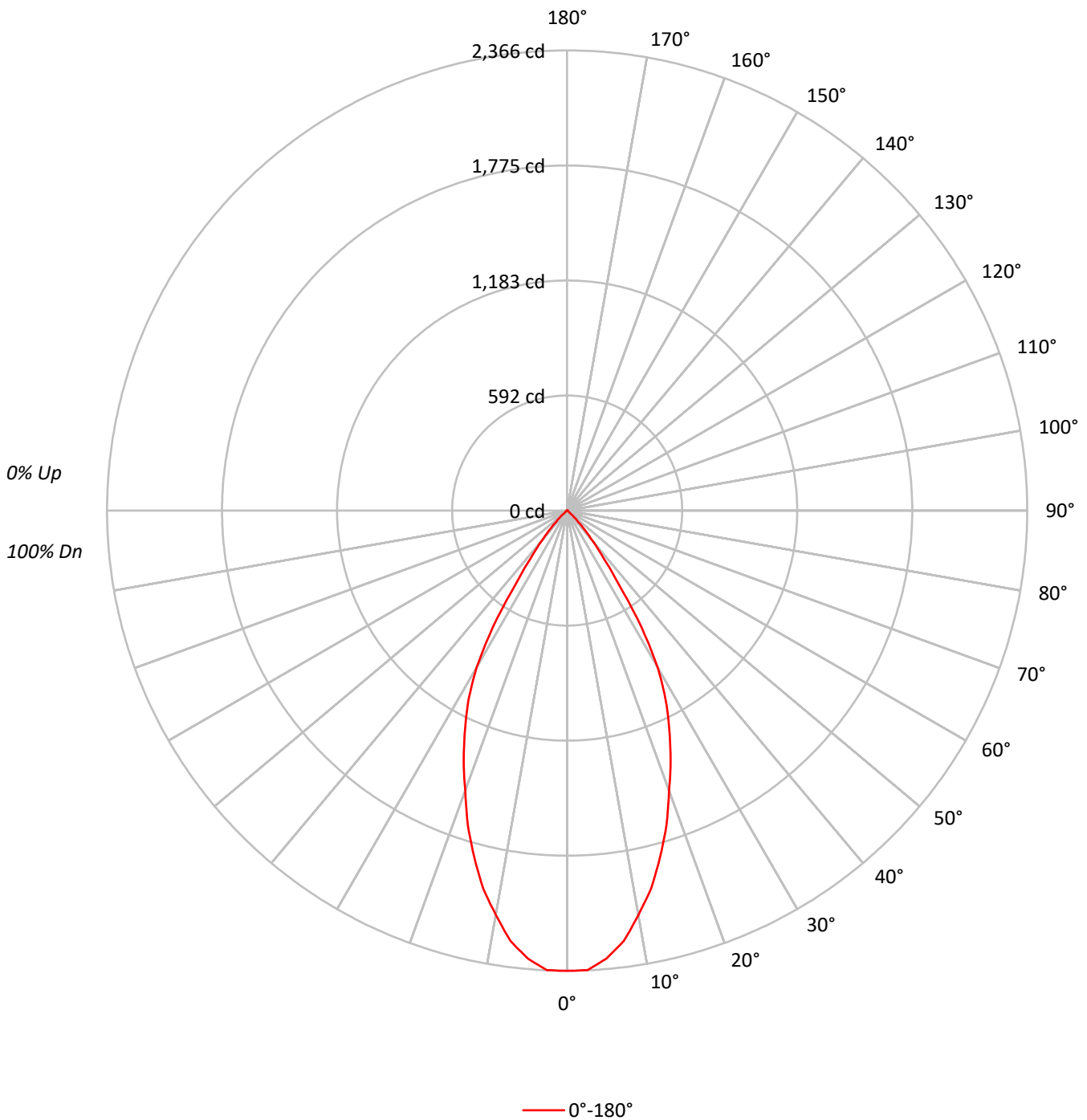
Input Watts (W): 20.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 91 | 90 | 88 |
| 3 | 103 | 97 | 93 | 89 | 101 | 96 | 92 | 88 | 93 | 90 | 87 | | 91 | 88 | 85 | | 89 | 86 | 84 | 83 |
| 4 | 99 | 91 | 86 | 82 | 97 | 90 | 85 | 82 | 88 | 84 | 81 | | 86 | 83 | 80 | | 84 | 81 | 79 | 77 |
| 5 | 94 | 86 | 80 | 76 | 92 | 85 | 80 | 76 | 83 | 79 | 75 | | 82 | 78 | 75 | | 80 | 77 | 74 | 73 |
| 6 | 90 | 81 | 75 | 71 | 88 | 80 | 75 | 71 | 79 | 74 | 71 | | 77 | 73 | 70 | | 76 | 73 | 70 | 68 |
| 7 | 85 | 77 | 71 | 67 | 84 | 76 | 71 | 67 | 75 | 70 | 66 | | 74 | 69 | 66 | | 72 | 69 | 66 | 64 |
| 8 | 82 | 72 | 67 | 63 | 80 | 72 | 67 | 63 | 71 | 66 | 63 | | 70 | 65 | 62 | | 69 | 65 | 62 | 61 |
| 9 | 78 | 69 | 63 | 59 | 77 | 68 | 63 | 59 | 67 | 62 | 59 | | 66 | 62 | 59 | | 66 | 62 | 59 | 57 |
| 10 | 74 | 65 | 60 | 56 | 74 | 65 | 60 | 56 | 64 | 59 | 56 | | 63 | 59 | 56 | | 63 | 58 | 56 | 54 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 64636 |
| 5° | 63408 |
| 10° | 58555 |
| 15° | 52180 |
| 20° | 44562 |
| 25° | 37424 |
| 30° | 29380 |
| 35° | 15222 |
| 40° | 7271 |
| 45° | 2862 |
| 50° | 752 |
| 55° | 210 |
| 60° | 137 |
| 65° | 123 |
| 70° | 104 |
| 75° | 137 |
| 80° | 94 |
| 85° | 188 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 214.4 | 12.8 |
| 10°-20° | 512.8 | 30.5 |
| 20°-30° | 566.2 | 33.7 |
| 30°-40° | 311.5 | 18.5 |
| 40°-50° | 65.9 | 3.9 |
| 50°-60° | 5.6 | 0.3 |
| 60°-70° | 1.7 | 0.1 |
| 70°-80° | 1.3 | 0.1 |
| 80°-90° | 0.6 | 0.0 |
| 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° | 1293.4 | 77.0 |
| 0°-40° | 1605.0 | 95.5 |
| 0°-60° | 1676.4 | 99.8 |
| 0°-90° | 1680.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1680.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2366 | |
| 5° | 2312 | 214 |
| 15° | 1845 | 513 |
| 25° | 1242 | 566 |
| 35° | 456 | 312 |
| 45° | 74 | 66 |
| 55° | 4 | 6 |
| 65° | 2 | 2 |
| 75° | 1 | 1 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2366.3 |
| 2.5° | 2365.0 |
| 5° | 2312.5 |
| 7.5° | 2231.4 |
| 10° | 2111.1 |
| 12.5° | 1991.5 |
| 15° | 1845.2 |
| 17.5° | 1696.4 |
| 20° | 1533.0 |
| 22.5° | 1389.9 |
| 25° | 1241.7 |
| 27.5° | 1098.6 |
| 30° | 931.5 |
| 32.5° | 711.1 |
| 35° | 456.5 |
| 37.5° | 307.7 |
| 40° | 203.9 |
| 42.5° | 127.3 |
| 45° | 74.1 |
| 47.5° | 38.0 |
| 50° | 17.7 |
| 52.5° | 7.6 |
| 55° | 4.4 |
| 57.5° | 3.2 |
| 60° | 2.5 |
| 62.5° | 1.9 |
| 65° | 1.9 |
| 67.5° | 1.3 |
| 70° | 1.3 |
| 72.5° | 1.9 |
| 75° | 1.3 |
| 77.5° | 0.6 |
| 80° | 0.6 |
| 82.5° | 0.6 |
| 85° | 0.6 |
| 87.5° | 0.6 |
| 90° | 0.0 |

(END OF REPORT)