

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: P365411

Luminaire Tested: **FLD6BX20D010-FEU6B12-8050-F6LBXVM1-MW-BL84**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P365411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-36)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX20D010-FEU6B12-8050-F6LBXVM1-MW-BL84
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, MATTE WHITE REFLECTOR, BOTTOM LENS POLYCARBONATE, CLEAR 0.125", 2000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1635.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.95
Luminous Opening: Circular (Dia: 0.71' x H: 0')
CIE Type: Direct

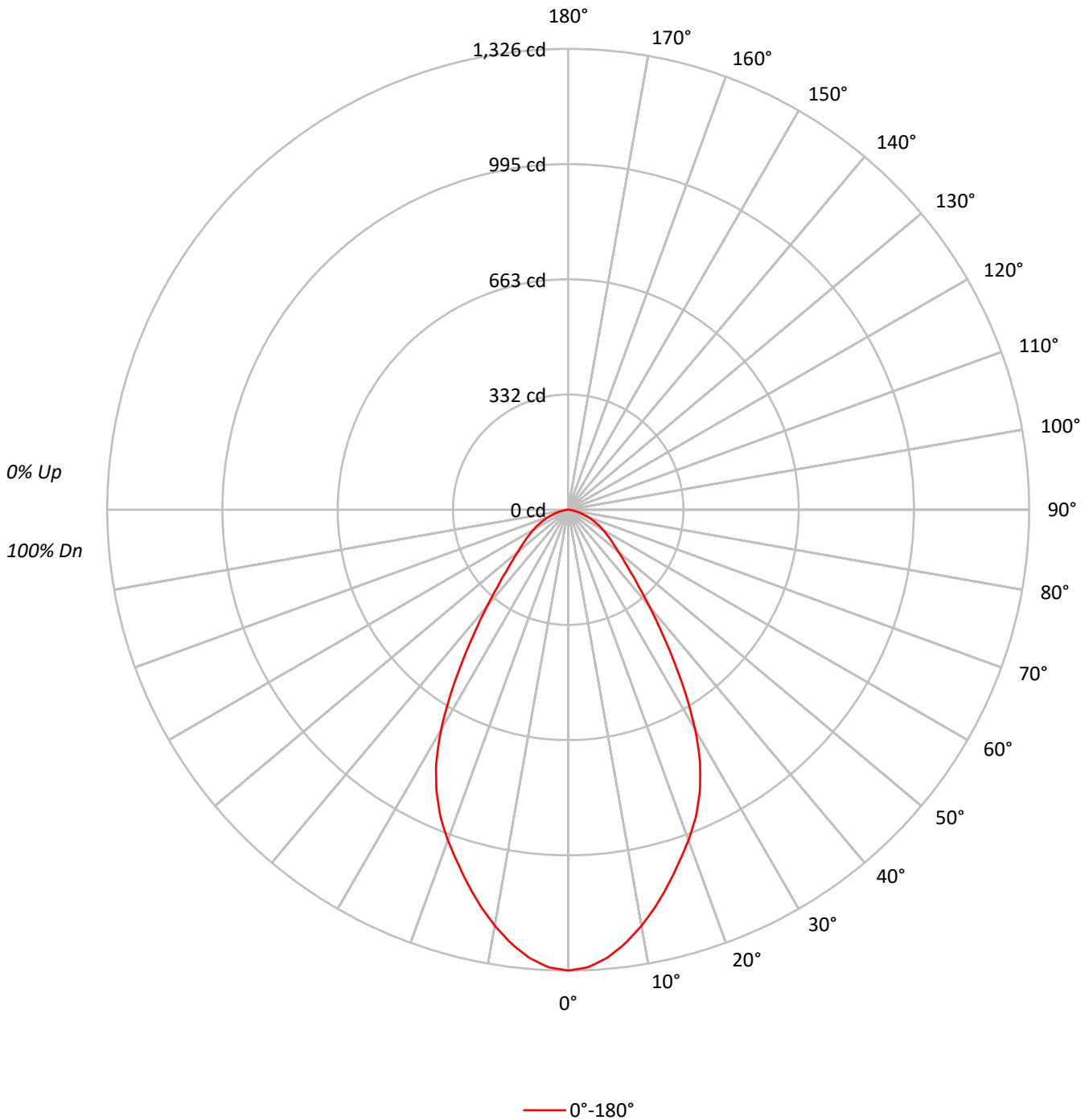
Input Watts (W): 20.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 97 | 98 | 96 | 95 | 95 | 93 | 92 | 90 |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 72 |
| 4 | 91 | 82 | 75 | 70 | 89 | 80 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 67 | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 68 | 63 | 84 | 74 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 49 |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 52 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 |
| 9 | 67 | 56 | 49 | 44 | 66 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 47 | 44 | 42 |
| 10 | 64 | 52 | 46 | 41 | 62 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 49 | 44 | 41 | 39 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 36223 |
| 5° | 35484 |
| 10° | 33708 |
| 15° | 31534 |
| 20° | 29423 |
| 25° | 26996 |
| 30° | 23053 |
| 35° | 17573 |
| 40° | 12944 |
| 45° | 9824 |
| 50° | 7998 |
| 55° | 7034 |
| 60° | 6288 |
| 65° | 5552 |
| 70° | 4712 |
| 75° | 3673 |
| 80° | 2454 |
| 85° | 1128 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 121.0 | 7.4 |
| 10°-20° | 312.9 | 19.1 |
| 20°-30° | 406.7 | 24.9 |
| 30°-40° | 331.4 | 20.3 |
| 40°-50° | 201.2 | 12.3 |
| 50°-60° | 133.1 | 8.1 |
| 60°-70° | 85.4 | 5.2 |
| 70°-80° | 37.7 | 2.3 |
| 80°-90° | 5.6 | 0.3 |
| 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° | 840.6 | 51.4 |
| 0°-40° | 1172.0 | 71.7 |
| 0°-60° | 1506.3 | 92.1 |
| 0°-90° | 1635.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1635.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1326 | |
| 5° | 1294 | 121 |
| 15° | 1115 | 313 |
| 25° | 896 | 407 |
| 35° | 527 | 331 |
| 45° | 254 | 201 |
| 55° | 148 | 133 |
| 65° | 86 | 85 |
| 75° | 35 | 38 |
| 85° | 4 | 6 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1326.1 |
| 2.5° | 1317.6 |
| 5° | 1294.1 |
| 7.5° | 1258.6 |
| 10° | 1215.3 |
| 12.5° | 1167.0 |
| 15° | 1115.1 |
| 17.5° | 1061.9 |
| 20° | 1012.2 |
| 22.5° | 958.2 |
| 25° | 895.7 |
| 27.5° | 821.8 |
| 30° | 730.9 |
| 32.5° | 628.6 |
| 35° | 527.0 |
| 37.5° | 436.8 |
| 40° | 363.0 |
| 42.5° | 301.2 |
| 45° | 254.3 |
| 47.5° | 217.3 |
| 50° | 188.2 |
| 52.5° | 166.2 |
| 55° | 147.7 |
| 57.5° | 130.7 |
| 60° | 115.1 |
| 62.5° | 100.2 |
| 65° | 85.9 |
| 67.5° | 72.4 |
| 70° | 59.0 |
| 72.5° | 46.2 |
| 75° | 34.8 |
| 77.5° | 24.9 |
| 80° | 15.6 |
| 82.5° | 8.5 |
| 85° | 3.6 |
| 87.5° | 0.7 |
| 90° | 0.0 |

(END OF REPORT)