

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: P366272

Luminaire Tested: **FLD6BX40D010-FEU6B35-8030-F6LBXVM1-WMH-BTR89BV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P366272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX40D010-FEU6B35-8030-F6LBXVM1-WMH-BTR89BV
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, WARM HAZE REFLECTOR,
BOTTOM TRIM ACRYLIC, CLEAR 0.125", 4000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3201.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.8
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Direct

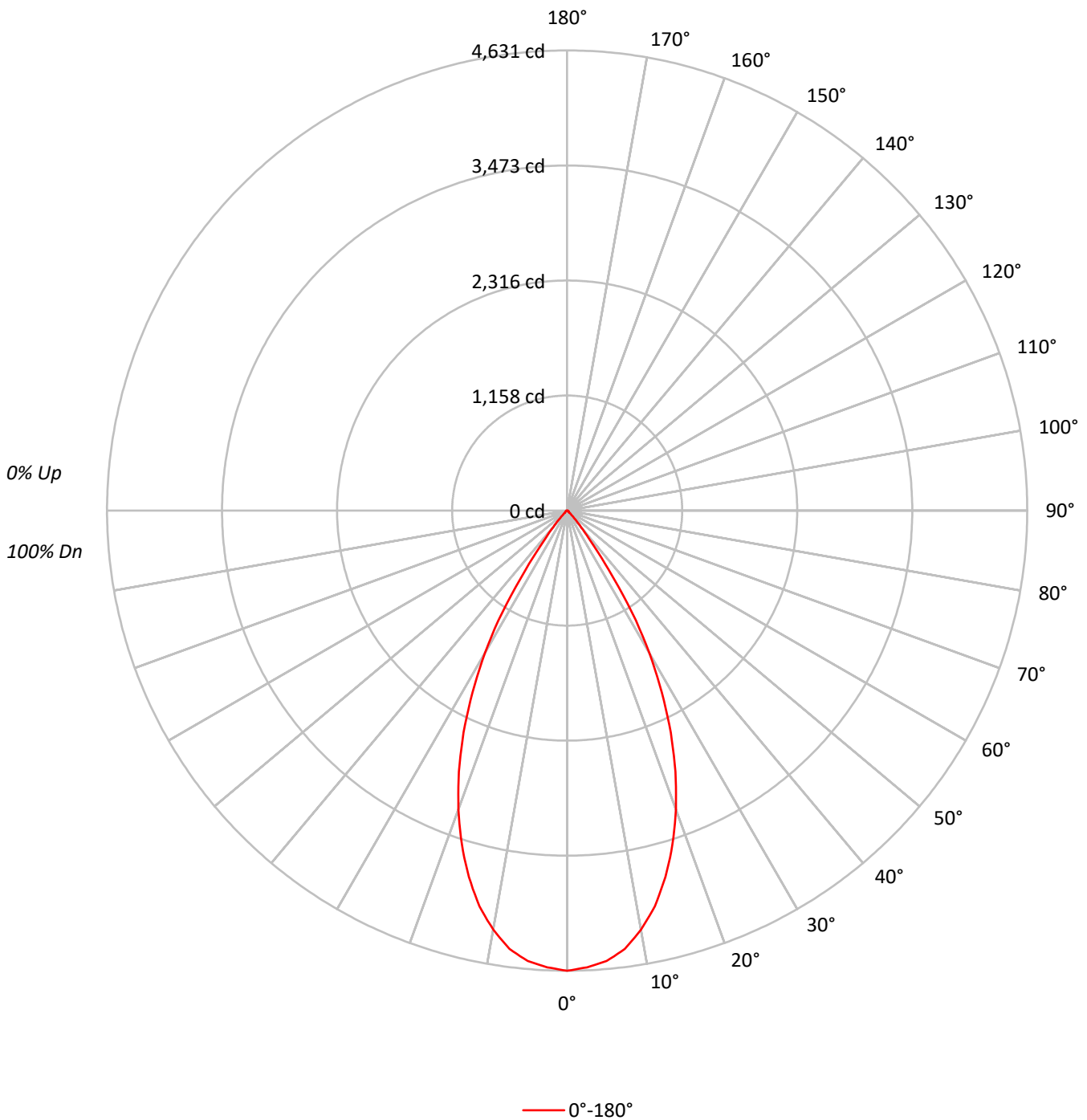
Input Watts (W): 40.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 92 | 90 | 88 |
| 3 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 89 | 94 | 90 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 82 | 89 | 85 | 81 | 87 | 83 | 80 | 85 | 82 | 80 | 78 |
| 5 | 94 | 87 | 81 | 77 | 93 | 86 | 81 | 77 | 84 | 80 | 76 | 82 | 79 | 76 | 81 | 78 | 75 | 74 |
| 6 | 90 | 82 | 76 | 72 | 89 | 81 | 76 | 72 | 80 | 75 | 72 | 78 | 74 | 71 | 77 | 74 | 71 | 69 |
| 7 | 86 | 78 | 72 | 68 | 85 | 77 | 72 | 68 | 76 | 71 | 68 | 75 | 70 | 67 | 74 | 70 | 67 | 66 |
| 8 | 82 | 74 | 68 | 64 | 81 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 |
| 9 | 79 | 70 | 65 | 61 | 78 | 70 | 64 | 61 | 69 | 64 | 61 | 68 | 63 | 60 | 67 | 63 | 60 | 59 |
| 10 | 76 | 67 | 61 | 58 | 75 | 66 | 61 | 58 | 65 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 56 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 331574 |
| 5° | 327098 |
| 10° | 311358 |
| 15° | 283042 |
| 20° | 243732 |
| 25° | 194839 |
| 30° | 136618 |
| 35° | 63547 |
| 40° | 20077 |
| 45° | 6278 |
| 50° | 2763 |
| 55° | 2584 |
| 60° | 2363 |
| 65° | 2101 |
| 70° | 2303 |
| 75° | 2656 |
| 80° | 3422 |
| 85° | 5669 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 426.0 | 13.3 |
| 10°-20° | 1058.7 | 33.1 |
| 20°-30° | 1113.1 | 34.8 |
| 30°-40° | 493.8 | 15.4 |
| 40°-50° | 61.8 | 1.9 |
| 50°-60° | 18.5 | 0.6 |
| 60°-70° | 12.9 | 0.4 |
| 70°-80° | 10.2 | 0.3 |
| 80°-90° | 6.0 | 0.2 |
| 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° | 2597.8 | 81.2 |
| 0°-40° | 3091.6 | 96.6 |
| 0°-60° | 3171.9 | 99.1 |
| 0°-90° | 3201.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3201.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 4631 | |
| 5° | 4551 | 426 |
| 15° | 3818 | 1059 |
| 25° | 2466 | 1113 |
| 35° | 727 | 494 |
| 45° | 62 | 62 |
| 55° | 21 | 18 |
| 65° | 12 | 13 |
| 75° | 10 | 10 |
| 85° | 7 | 6 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 4630.8 |
| 2.5° | 4600.5 |
| 5° | 4550.9 |
| 7.5° | 4449.0 |
| 10° | 4282.4 |
| 12.5° | 4078.6 |
| 15° | 3818.3 |
| 17.5° | 3525.0 |
| 20° | 3198.7 |
| 22.5° | 2844.8 |
| 25° | 2466.2 |
| 27.5° | 2064.1 |
| 30° | 1652.4 |
| 32.5° | 1215.9 |
| 35° | 727.0 |
| 37.5° | 386.9 |
| 40° | 214.8 |
| 42.5° | 117.0 |
| 45° | 62.0 |
| 47.5° | 30.3 |
| 50° | 24.8 |
| 52.5° | 22.0 |
| 55° | 20.7 |
| 57.5° | 19.3 |
| 60° | 16.5 |
| 62.5° | 15.1 |
| 65° | 12.4 |
| 67.5° | 11.0 |
| 70° | 11.0 |
| 72.5° | 9.6 |
| 75° | 9.6 |
| 77.5° | 9.6 |
| 80° | 8.3 |
| 82.5° | 6.9 |
| 85° | 6.9 |
| 87.5° | 4.1 |
| 90° | 0.0 |

(END OF REPORT)