

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: P572310

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-40 F4X-N-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-10-D010 FEU4C-X-90-40 F4X-N-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNLI TRIM

Light Source: -
Ballast/Driver: -

Summary

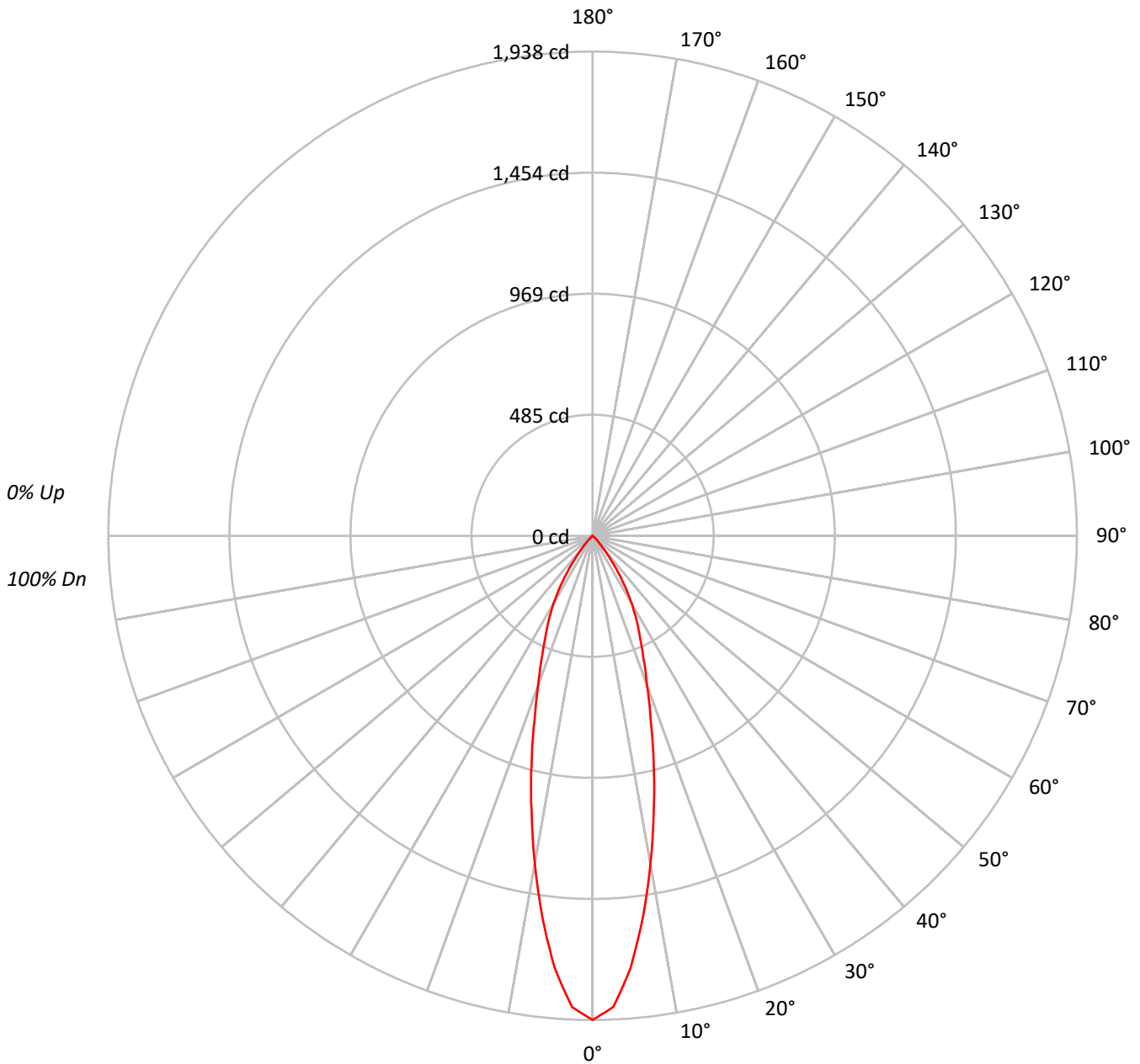
Lumens per Lamp: N/A
Luminaire Lumens: 753.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P572310

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-40 F4X-N-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P572310

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-40 F4X-N-X-LI

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 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 | 95 | 95 | 95 |
| 2 | 109 | 105 | 102 | 99 | 107 | 103 | 100 | 98 | 100 | 98 | 95 | 97 | 95 | 93 | 95 | 93 | 92 | 90 | 90 | 90 | 90 |
| 3 | 105 | 99 | 95 | 92 | 103 | 98 | 94 | 91 | 95 | 92 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 85 | 85 | 85 | 85 |
| 4 | 101 | 94 | 89 | 86 | 99 | 93 | 88 | 85 | 91 | 87 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 81 | 81 | 81 | 81 |
| 5 | 96 | 89 | 84 | 80 | 95 | 88 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 79 | 83 | 80 | 78 | 77 | 77 | 77 | 77 |
| 6 | 92 | 85 | 80 | 76 | 91 | 84 | 79 | 76 | 83 | 78 | 75 | 81 | 78 | 75 | 80 | 77 | 74 | 73 | 73 | 73 | 73 |
| 7 | 89 | 81 | 76 | 72 | 88 | 80 | 75 | 72 | 79 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 71 | 69 | 69 | 69 | 69 |
| 8 | 85 | 77 | 72 | 68 | 84 | 77 | 72 | 68 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 70 | 67 | 66 | 66 | 66 | 66 |
| 9 | 82 | 74 | 69 | 65 | 81 | 73 | 68 | 65 | 72 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 64 | 63 | 63 | 63 | 63 |
| 10 | 79 | 71 | 66 | 62 | 78 | 70 | 65 | 62 | 69 | 65 | 62 | 69 | 65 | 62 | 68 | 64 | 62 | 61 | 61 | 61 | 61 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 238065 |
| 5° | 214236 |
| 10° | 166078 |
| 15° | 120205 |
| 20° | 83228 |
| 25° | 60674 |
| 30° | 44090 |
| 35° | 26096 |
| 40° | 10970 |
| 45° | 3423 |
| 50° | 440 |
| 55° | 257 |
| 60° | 295 |
| 65° | 349 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



TEST NUMBER: P572310

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-40 F4X-N-X-LI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 152.7 | 20.3 |
| 10°-20° | 261.4 | 34.7 |
| 20°-30° | 207.8 | 27.6 |
| 30°-40° | 110.0 | 14.6 |
| 40°-50° | 18.9 | 2.5 |
| 50°-60° | 1.4 | 0.2 |
| 60°-70° | 0.7 | 0.1 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 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° | 621.9 | 82.6 |
| 0°-40° | 731.9 | 97.2 |
| 0°-60° | 752.3 | 99.9 |
| 0°-90° | 753.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 753.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1938 | |
| 5° | 1737 | 153 |
| 15° | 945 | 261 |
| 25° | 448 | 208 |
| 35° | 174 | 110 |
| 45° | 20 | 19 |
| 55° | 1 | 1 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P572310

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-40 F4X-N-X-LI

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1937.8 |
| 2.5° | 1887.9 |
| 5° | 1737.2 |
| 7.5° | 1540.0 |
| 10° | 1331.3 |
| 12.5° | 1129.5 |
| 15° | 945.1 |
| 17.5° | 773.5 |
| 20° | 636.6 |
| 22.5° | 532.3 |
| 25° | 447.6 |
| 27.5° | 379.2 |
| 30° | 310.8 |
| 32.5° | 241.2 |
| 35° | 174.0 |
| 37.5° | 114.8 |
| 40° | 68.4 |
| 42.5° | 39.4 |
| 45° | 19.7 |
| 47.5° | 7.0 |
| 50° | 2.3 |
| 52.5° | 2.3 |
| 55° | 1.2 |
| 57.5° | 1.2 |
| 60° | 1.2 |
| 62.5° | 1.2 |
| 65° | 1.2 |
| 67.5° | 0.0 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)