

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: P727012

Luminaire Tested: **MRI-DRV-FLD4C-20-L940 F4LC-N-X-LI**

Issue Date: 08/03/2023



Test Information

Test Method: LM-79-08
Report Number: P727012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER-P3
Issue Date: 08/03/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MRI-DRV-FLD4C-20-L940 F4LC-N-X-LI
Description: 4 INCH FAIL-SAFE MRI REMOTE DRIVER LED DOWNLIGHT WITH 4000K, 90 CRI
LEDS, 4LBNLI TRIM
Light Source: -
Ballast/Driver: -

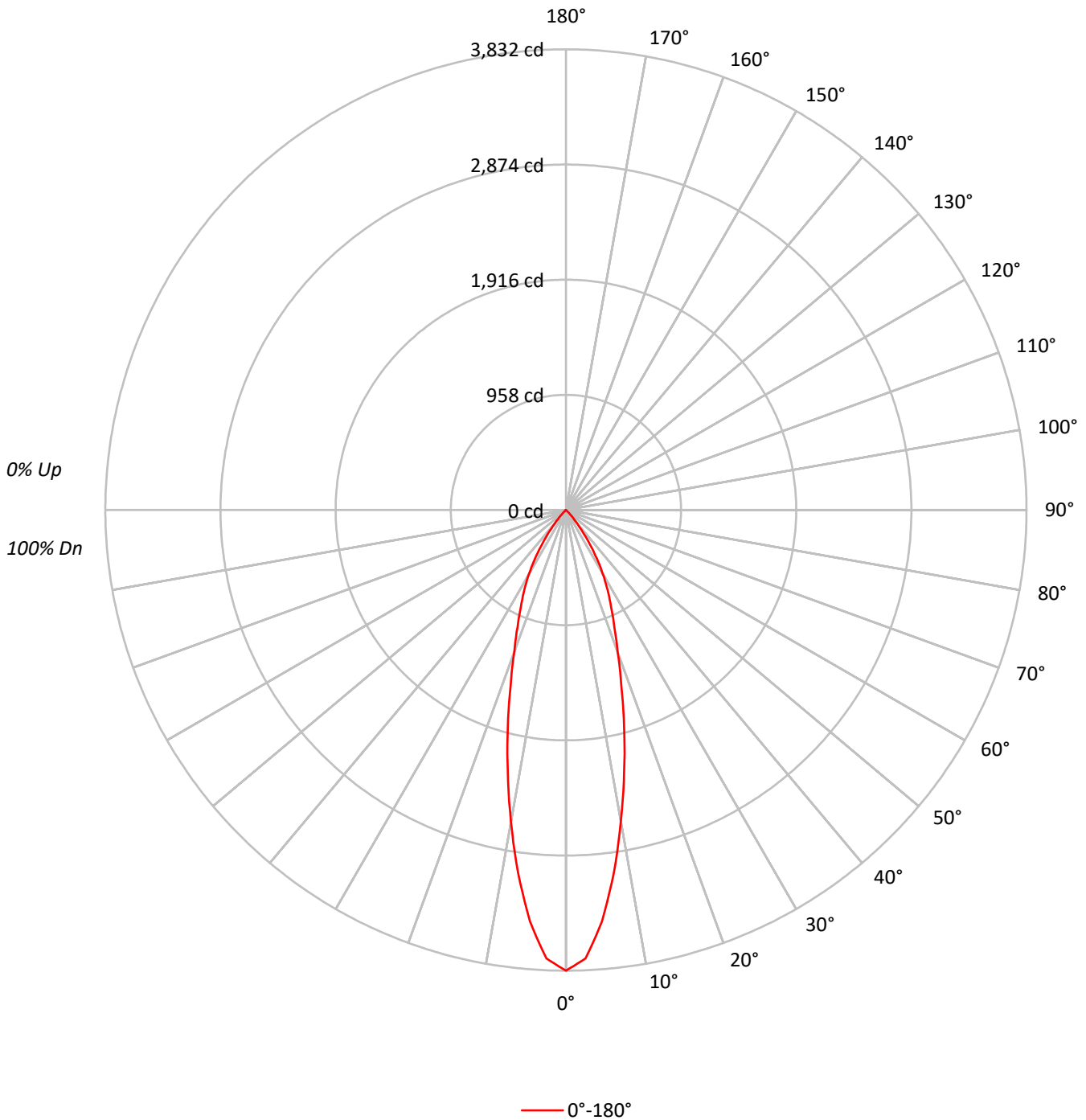
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1489.0 lumens
Efficiency: N/A
Efficacy: 68.3 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): 21.8
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

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

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 470750 |
| 5° | 423626 |
| 10° | 328401 |
| 15° | 237700 |
| 20° | 164586 |
| 25° | 119992 |
| 30° | 87187 |
| 35° | 51592 |
| 40° | 21699 |
| 45° | 6759 |
| 50° | 879 |
| 55° | 493 |
| 60° | 565 |
| 65° | 669 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 302.0 | 20.3 |
| 10°-20° | 517.0 | 34.7 |
| 20°-30° | 410.9 | 27.6 |
| 30°-40° | 217.5 | 14.6 |
| 40°-50° | 37.5 | 2.5 |
| 50°-60° | 2.8 | 0.2 |
| 60°-70° | 1.4 | 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° | 1229.8 | 82.6 |
| 0°-40° | 1447.3 | 97.2 |
| 0°-60° | 1487.6 | 99.9 |
| 0°-90° | 1489.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1489.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3832 | |
| 5° | 3435 | 302 |
| 15° | 1869 | 517 |
| 25° | 885 | 411 |
| 35° | 344 | 218 |
| 45° | 39 | 37 |
| 55° | 2 | 3 |
| 65° | 2 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3831.8 |
| 2.5° | 3733.2 |
| 5° | 3435.1 |
| 7.5° | 3045.3 |
| 10° | 2632.5 |
| 12.5° | 2233.5 |
| 15° | 1868.9 |
| 17.5° | 1529.5 |
| 20° | 1258.9 |
| 22.5° | 1052.5 |
| 25° | 885.2 |
| 27.5° | 749.9 |
| 30° | 614.6 |
| 32.5° | 477.0 |
| 35° | 344.0 |
| 37.5° | 227.1 |
| 40° | 135.3 |
| 42.5° | 78.0 |
| 45° | 38.9 |
| 47.5° | 13.8 |
| 50° | 4.6 |
| 52.5° | 4.6 |
| 55° | 2.3 |
| 57.5° | 2.3 |
| 60° | 2.3 |
| 62.5° | 2.3 |
| 65° | 2.3 |
| 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 |

(END OF REPORT)