

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: P574348

Luminaire Tested: **FLD6C-05-D010 FEU6C-X-90-50 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P574348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-05-D010 FEU6C-X-90-50 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

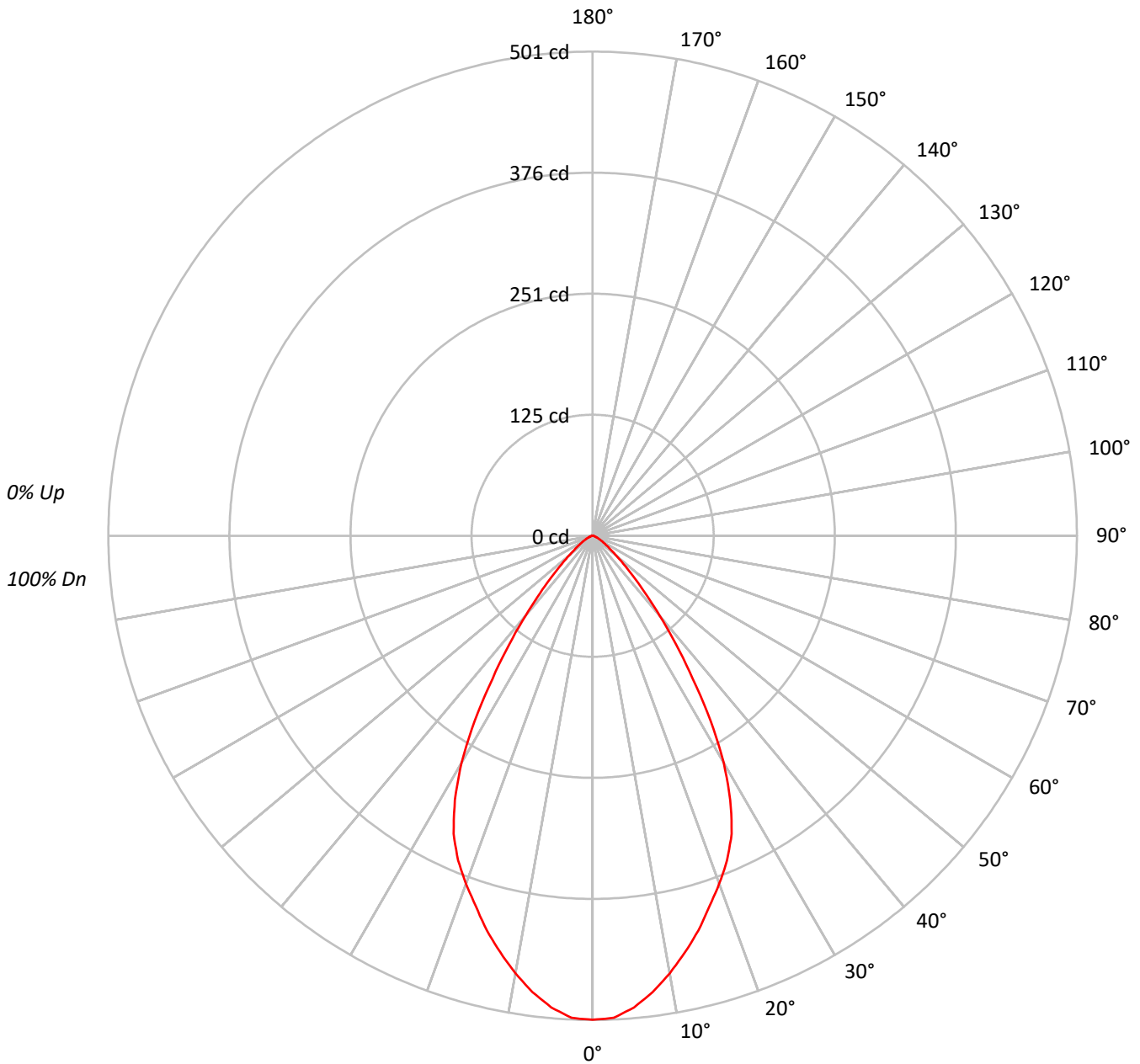
Lumens per Lamp: N/A
Luminaire Lumens: 506.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | 100 |
| 1 | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 95 | 94 | 92 | | | 92 |
| 2 | 107 | 102 | 97 | 93 | 105 | 100 | 96 | 92 | 97 | 93 | 90 | 94 | 91 | 88 | 91 | 89 | 87 | 85 | | | 85 |
| 3 | 101 | 94 | 88 | 84 | 99 | 92 | 87 | 84 | 90 | 86 | 82 | 87 | 84 | 81 | 85 | 82 | 80 | 78 | | | 78 |
| 4 | 95 | 87 | 81 | 76 | 93 | 86 | 80 | 76 | 84 | 79 | 75 | 82 | 78 | 74 | 80 | 76 | 73 | 72 | | | 72 |
| 5 | 90 | 81 | 75 | 70 | 88 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 66 | | | 66 |
| 6 | 85 | 75 | 69 | 64 | 83 | 75 | 69 | 64 | 73 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 63 | 61 | | | 61 |
| 7 | 80 | 70 | 64 | 59 | 79 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 58 | 57 | | | 57 |
| 8 | 76 | 66 | 60 | 55 | 75 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 62 | 58 | 54 | 53 | | | 53 |
| 9 | 72 | 62 | 56 | 51 | 71 | 61 | 55 | 51 | 60 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 49 | | | 49 |
| 10 | 69 | 58 | 52 | 48 | 68 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 55 | 51 | 48 | 46 | | | 46 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 27454 |
| 5° | 26959 |
| 10° | 25584 |
| 15° | 23990 |
| 20° | 22344 |
| 25° | 20584 |
| 30° | 17155 |
| 35° | 12086 |
| 40° | 7707 |
| 45° | 4597 |
| 50° | 2712 |
| 55° | 1730 |
| 60° | 1184 |
| 65° | 843 |
| 70° | 577 |
| 75° | 466 |
| 80° | 221 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.8 | 9.0 |
| 10°-20° | 118.5 | 23.4 |
| 20°-30° | 153.5 | 30.3 |
| 30°-40° | 113.9 | 22.5 |
| 40°-50° | 48.1 | 9.5 |
| 50°-60° | 17.1 | 3.4 |
| 60°-70° | 6.6 | 1.3 |
| 70°-80° | 2.3 | 0.5 |
| 80°-90° | 0.3 | 0.1 |
| 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° | 317.7 | 62.8 |
| 0°-40° | 431.7 | 85.3 |
| 0°-60° | 496.8 | 98.2 |
| 0°-90° | 506.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 506.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 501 | |
| 5° | 490 | 46 |
| 15° | 423 | 118 |
| 25° | 340 | 153 |
| 35° | 181 | 114 |
| 45° | 59 | 48 |
| 55° | 18 | 17 |
| 65° | 6 | 7 |
| 75° | 2 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 500.8 |
| 2.5° | 499.3 |
| 5° | 489.9 |
| 7.5° | 476.2 |
| 10° | 459.6 |
| 12.5° | 441.5 |
| 15° | 422.7 |
| 17.5° | 401.8 |
| 20° | 383.0 |
| 22.5° | 363.5 |
| 25° | 340.3 |
| 27.5° | 308.5 |
| 30° | 271.0 |
| 32.5° | 226.9 |
| 35° | 180.6 |
| 37.5° | 141.6 |
| 40° | 107.7 |
| 42.5° | 80.2 |
| 45° | 59.3 |
| 47.5° | 43.4 |
| 50° | 31.8 |
| 52.5° | 23.8 |
| 55° | 18.1 |
| 57.5° | 13.7 |
| 60° | 10.8 |
| 62.5° | 8.0 |
| 65° | 6.5 |
| 67.5° | 5.0 |
| 70° | 3.6 |
| 72.5° | 2.9 |
| 75° | 2.2 |
| 77.5° | 1.5 |
| 80° | 0.7 |
| 82.5° | 0.7 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)