

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: P579908

Luminaire Tested: **FLD6C-90-D010 FEU6C-X-90-30 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-90-D010 FEU6C-X-90-30 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

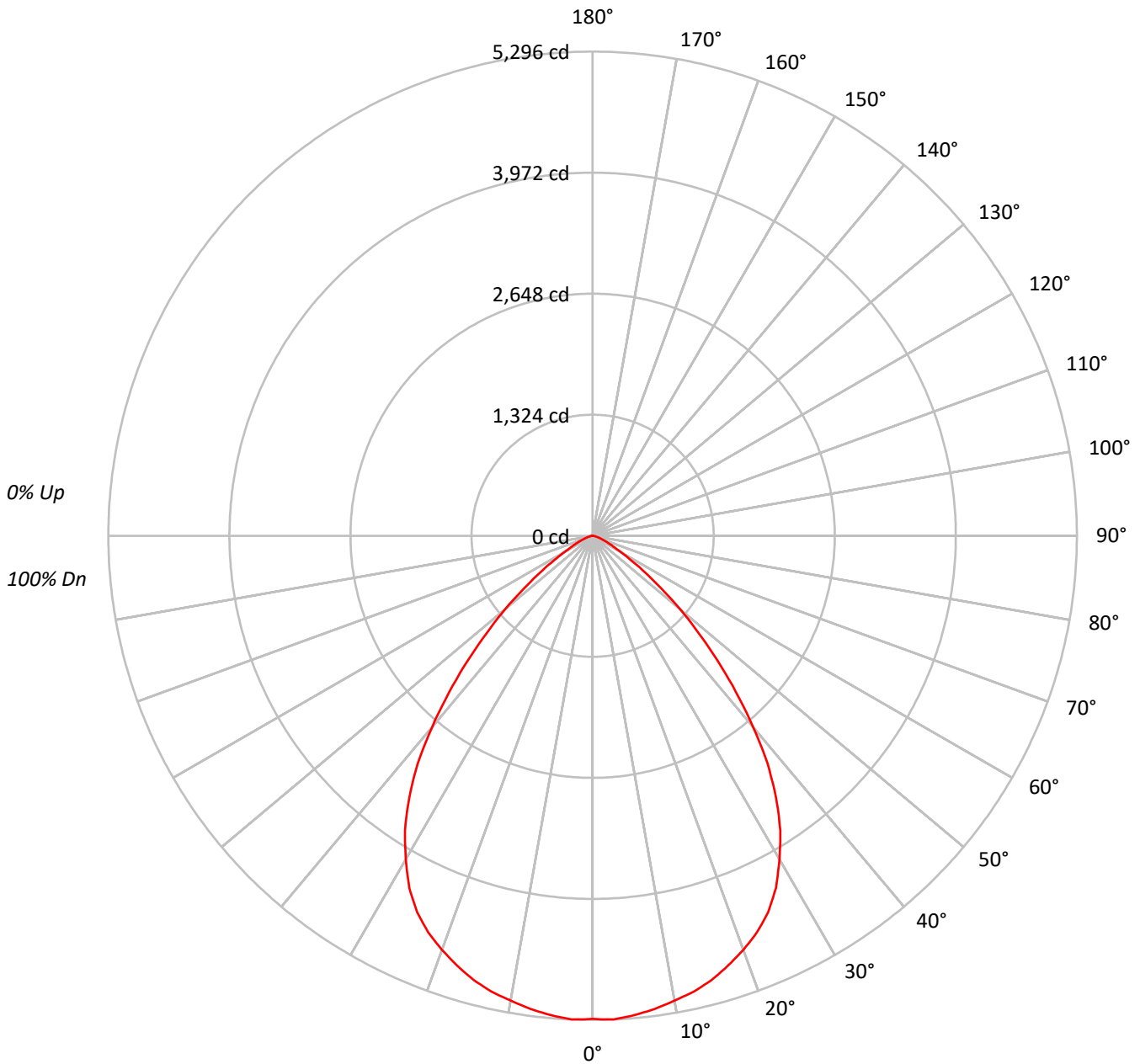
Lumens per Lamp: N/A
Luminaire Lumens: 8569.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 | | | 91 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 81 | | | 81 |
| 3 | 98 | 90 | 84 | 79 | 96 | 89 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 73 | | | 73 |
| 4 | 92 | 82 | 75 | 70 | 90 | 81 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 65 | | | 65 |
| 5 | 86 | 75 | 68 | 63 | 84 | 74 | 68 | 63 | 72 | 66 | 62 | 71 | 65 | 61 | 69 | 64 | 61 | 59 | | | 59 |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 61 | 56 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 53 | | | 53 |
| 7 | 75 | 64 | 56 | 51 | 73 | 63 | 56 | 51 | 62 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 50 | 49 | | | 49 |
| 8 | 70 | 59 | 52 | 47 | 69 | 58 | 51 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 | | | 44 |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 43 | 52 | 47 | 42 | 51 | 46 | 42 | 41 | | | 41 |
| 10 | 62 | 51 | 44 | 40 | 61 | 50 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 38 | | | 38 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 289725 |
| 5° | 289626 |
| 10° | 287397 |
| 15° | 285473 |
| 20° | 281121 |
| 25° | 274697 |
| 30° | 258647 |
| 35° | 234077 |
| 40° | 195459 |
| 45° | 149767 |
| 50° | 106069 |
| 55° | 66875 |
| 60° | 37727 |
| 65° | 24490 |
| 70° | 15996 |
| 75° | 11755 |
| 80° | 7072 |
| 85° | 7045 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 499.2 | 5.8 |
| 10°-20° | 1416.4 | 16.5 |
| 20°-30° | 2076.8 | 24.2 |
| 30°-40° | 2161.4 | 25.2 |
| 40°-50° | 1495.4 | 17.5 |
| 50°-60° | 651.1 | 7.6 |
| 60°-70° | 199.7 | 2.3 |
| 70°-80° | 59.8 | 0.7 |
| 80°-90° | 9.1 | 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° | 3992.4 | 46.6 |
| 0°-40° | 6153.8 | 71.8 |
| 0°-60° | 8300.3 | 96.9 |
| 0°-90° | 8569.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8569.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 5285 | |
| 5° | 5263 | 499 |
| 15° | 5030 | 1416 |
| 25° | 4541 | 2077 |
| 35° | 3498 | 2161 |
| 45° | 1932 | 1495 |
| 55° | 700 | 651 |
| 65° | 189 | 200 |
| 75° | 56 | 60 |
| 85° | 11 | 9 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 5285.0 |
| 2.5° | 5296.2 |
| 5° | 5263.1 |
| 7.5° | 5218.8 |
| 10° | 5162.9 |
| 12.5° | 5107.4 |
| 15° | 5030.0 |
| 17.5° | 4929.8 |
| 20° | 4818.8 |
| 22.5° | 4696.7 |
| 25° | 4541.4 |
| 27.5° | 4341.5 |
| 30° | 4086.0 |
| 32.5° | 3819.4 |
| 35° | 3497.7 |
| 37.5° | 3142.4 |
| 40° | 2731.3 |
| 42.5° | 2320.6 |
| 45° | 1931.8 |
| 47.5° | 1565.4 |
| 50° | 1243.7 |
| 52.5° | 944.0 |
| 55° | 699.7 |
| 57.5° | 499.7 |
| 60° | 344.1 |
| 62.5° | 255.5 |
| 65° | 188.8 |
| 67.5° | 144.5 |
| 70° | 99.8 |
| 72.5° | 77.8 |
| 75° | 55.5 |
| 77.5° | 33.1 |
| 80° | 22.4 |
| 82.5° | 11.2 |
| 85° | 11.2 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)