

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: P575748

Luminaire Tested: **FLD6C-15-D010 FEU6C-X-90-35 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-15-D010 FEU6C-X-90-35 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

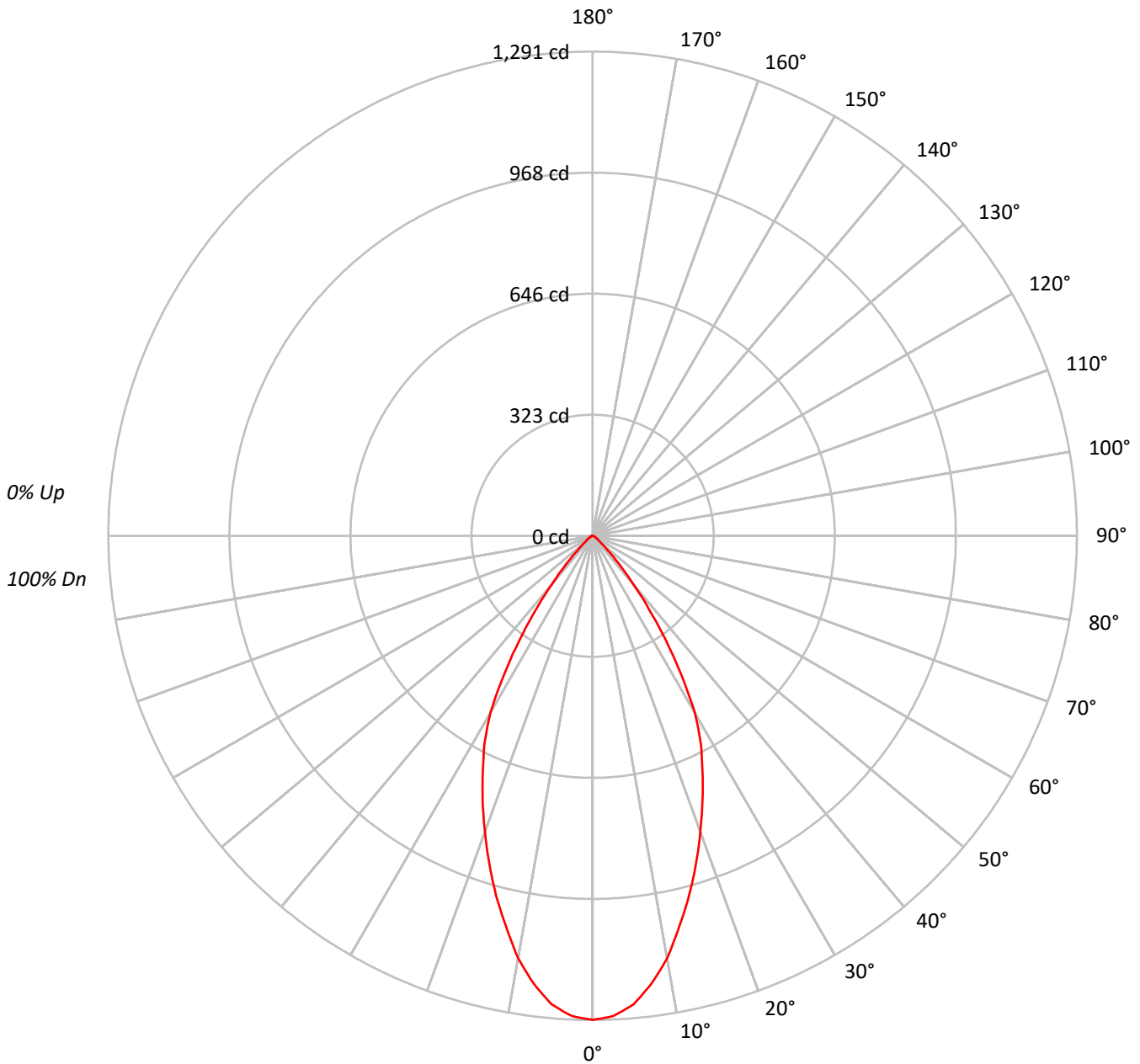
Lumens per Lamp: N/A
Luminaire Lumens: 1007.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 94 | 98 | 95 | 92 | 95 | 93 | 90 | 92 | 90 | 89 | 87 |
| 3 | 102 | 96 | 91 | 87 | 100 | 95 | 90 | 86 | 92 | 88 | 85 | 90 | 86 | 84 | 87 | 85 | 82 | 81 |
| 4 | 97 | 90 | 84 | 80 | 95 | 89 | 83 | 79 | 86 | 82 | 78 | 84 | 81 | 78 | 83 | 79 | 77 | 75 |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 73 | 81 | 76 | 73 | 80 | 75 | 72 | 78 | 74 | 72 | 70 |
| 6 | 88 | 79 | 73 | 69 | 86 | 78 | 72 | 68 | 77 | 72 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 65 |
| 7 | 83 | 74 | 68 | 64 | 82 | 73 | 68 | 64 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 61 |
| 8 | 79 | 70 | 64 | 60 | 78 | 69 | 64 | 60 | 68 | 63 | 59 | 67 | 63 | 59 | 66 | 62 | 59 | 58 |
| 9 | 76 | 66 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 56 | 64 | 59 | 56 | 63 | 59 | 55 | 54 |
| 10 | 72 | 62 | 57 | 53 | 71 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 52 | 60 | 55 | 52 | 51 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 70767 |
| 5° | 69013 |
| 10° | 63682 |
| 15° | 56379 |
| 20° | 48952 |
| 25° | 41869 |
| 30° | 34518 |
| 35° | 22734 |
| 40° | 12223 |
| 45° | 5411 |
| 50° | 2192 |
| 55° | 1587 |
| 60° | 1009 |
| 65° | 713 |
| 70° | 593 |
| 75° | 381 |
| 80° | 568 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.1 | 11.5 |
| 10°-20° | 276.8 | 27.5 |
| 20°-30° | 317.1 | 31.5 |
| 30°-40° | 213.1 | 21.2 |
| 40°-50° | 60.9 | 6.0 |
| 50°-60° | 14.9 | 1.5 |
| 60°-70° | 5.7 | 0.6 |
| 70°-80° | 2.2 | 0.2 |
| 80°-90° | 0.2 | 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° | 710.0 | 70.5 |
| 0°-40° | 923.1 | 91.7 |
| 0°-60° | 998.9 | 99.2 |
| 0°-90° | 1007.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1007.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1291 | |
| 5° | 1254 | 116 |
| 15° | 993 | 277 |
| 25° | 692 | 317 |
| 35° | 340 | 213 |
| 45° | 70 | 61 |
| 55° | 17 | 15 |
| 65° | 6 | 6 |
| 75° | 2 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1290.9 |
| 2.5° | 1281.7 |
| 5° | 1254.1 |
| 7.5° | 1204.5 |
| 10° | 1144.0 |
| 12.5° | 1066.8 |
| 15° | 993.4 |
| 17.5° | 916.3 |
| 20° | 839.1 |
| 22.5° | 765.7 |
| 25° | 692.2 |
| 27.5° | 624.3 |
| 30° | 545.3 |
| 32.5° | 440.7 |
| 35° | 339.7 |
| 37.5° | 247.9 |
| 40° | 170.8 |
| 42.5° | 112.0 |
| 45° | 69.8 |
| 47.5° | 42.2 |
| 50° | 25.7 |
| 52.5° | 20.2 |
| 55° | 16.6 |
| 57.5° | 12.9 |
| 60° | 9.2 |
| 62.5° | 7.3 |
| 65° | 5.5 |
| 67.5° | 3.7 |
| 70° | 3.7 |
| 72.5° | 1.8 |
| 75° | 1.8 |
| 77.5° | 1.8 |
| 80° | 1.8 |
| 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)