

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: P579748

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-50 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P579748  
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-80-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**

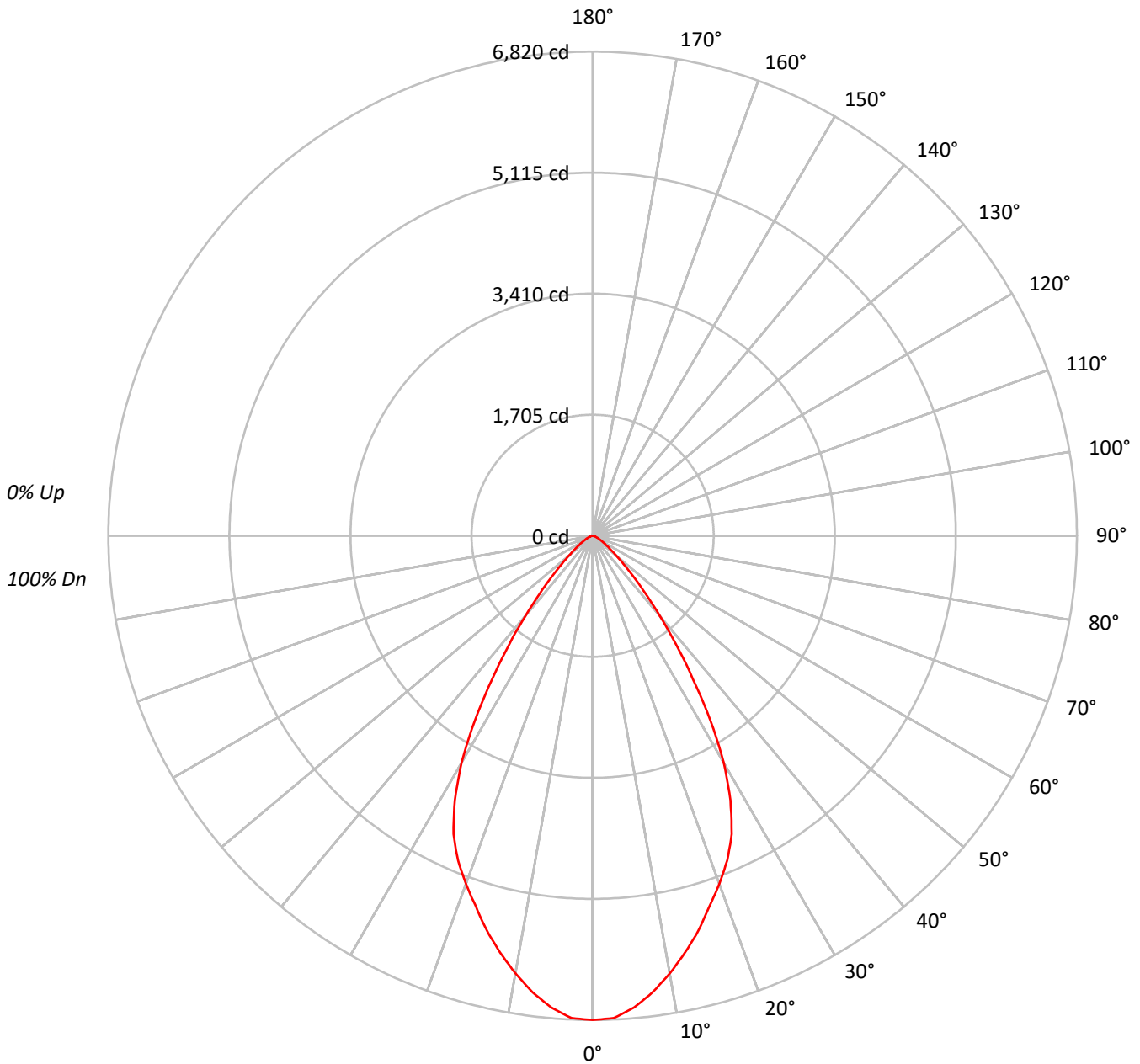
Lumens per Lamp: N/A  
Luminaire Lumens: 6891.0 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 89.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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				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	88	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°	373857
5°	367163
10°	348401
15°	326710
20°	304270
25°	280353
30°	233599
35°	164644
40°	104925
45°	62572
50°	36937
55°	23502
60°	16183
65°	11493
70°	7902
75°	6248
80°	3062
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	623.5	9.0
10°-20°	1613.1	23.4
20°-30°	2090.1	30.3
30°-40°	1551.7	22.5
40°-50°	655.1	9.5
50°-60°	232.6	3.4
60°-70°	89.8	1.3
70°-80°	31.1	0.5
80°-90°	3.9	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°	4326.8	62.8
0°-40°	5878.5	85.3
0°-60°	6766.2	98.2
0°-90°	6891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6891.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6820	
5°	6672	624
15°	5757	1613
25°	4635	2090
35°	2460	1552
45°	807	655
55°	246	233
65°	89	90
75°	30	31
85°	0	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6819.7
2.5°	6799.9
5°	6672.1
7.5°	6484.9
10°	6258.8
12.5°	6012.6
15°	5756.6
17.5°	5471.5
20°	5215.6
22.5°	4949.9
25°	4634.9
27.5°	4201.8
30°	3690.3
32.5°	3089.8
35°	2460.2
37.5°	1928.8
40°	1466.2
42.5°	1092.2
45°	807.1
47.5°	590.4
50°	433.1
52.5°	324.7
55°	245.9
57.5°	186.8
60°	147.6
62.5°	108.4
65°	88.6
67.5°	68.7
70°	49.3
72.5°	39.2
75°	29.5
77.5°	19.8
80°	9.7
82.5°	9.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)