

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: P579868

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

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P579868  
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-90-D010 FEU6C-X-90-30 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

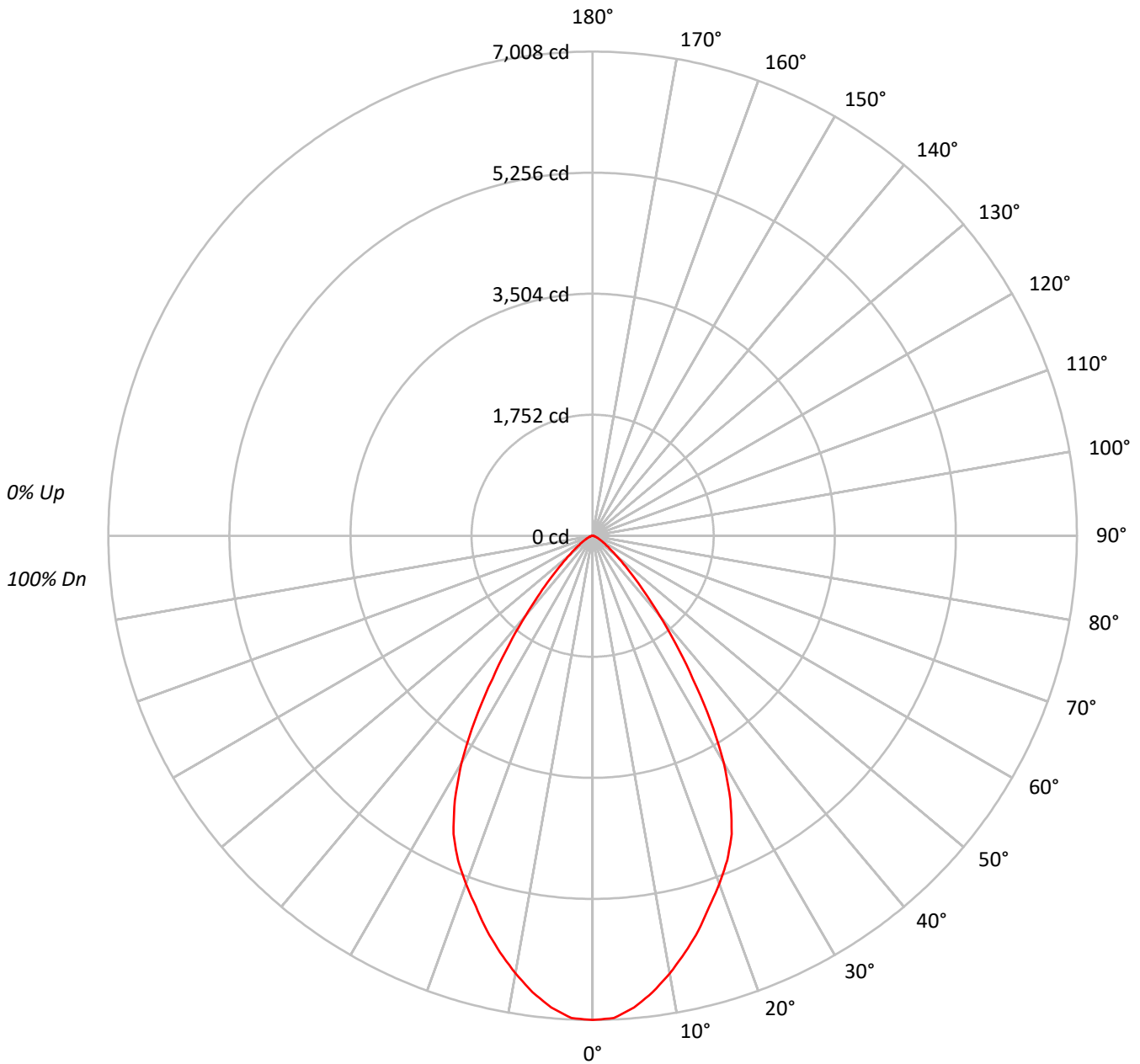
Lumens per Lamp: N/A  
Luminaire Lumens: 7081.0 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 97.1  
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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85	85
3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61	61	61	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57	57	57	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53	53	53	53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49	49	49	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46	46	46	46

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	384163
5°	377288
10°	358009
15°	335723
20°	312659
25°	288083
30°	240037
35°	169182
40°	107823
45°	64301
50°	37952
55°	24143
60°	16632
65°	11804
70°	8126
75°	6418
80°	3157
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	640.7	9.0
10°-20°	1657.6	23.4
20°-30°	2147.8	30.3
30°-40°	1594.5	22.5
40°-50°	673.2	9.5
50°-60°	239.0	3.4
60°-70°	92.3	1.3
70°-80°	31.9	0.5
80°-90°	4.1	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°	4446.1	62.8
0°-40°	6040.6	85.3
0°-60°	6952.8	98.2
0°-90°	7081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7008	
5°	6856	641
15°	5915	1658
25°	4763	2148
35°	2528	1595
45°	829	673
55°	253	239
65°	91	92
75°	30	32
85°	0	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7007.7
2.5°	6987.4
5°	6856.1
7.5°	6663.7
10°	6431.4
12.5°	6178.4
15°	5915.4
17.5°	5622.4
20°	5359.4
22.5°	5086.4
25°	4762.7
27.5°	4317.7
30°	3792.0
32.5°	3175.0
35°	2528.0
37.5°	1982.0
40°	1506.7
42.5°	1122.3
45°	829.4
47.5°	606.7
50°	445.0
52.5°	333.7
55°	252.6
57.5°	192.0
60°	151.7
62.5°	111.4
65°	91.0
67.5°	70.6
70°	50.7
72.5°	40.3
75°	30.3
77.5°	20.4
80°	10.0
82.5°	10.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)