

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: P575368

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-30 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P575368  
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-120-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**

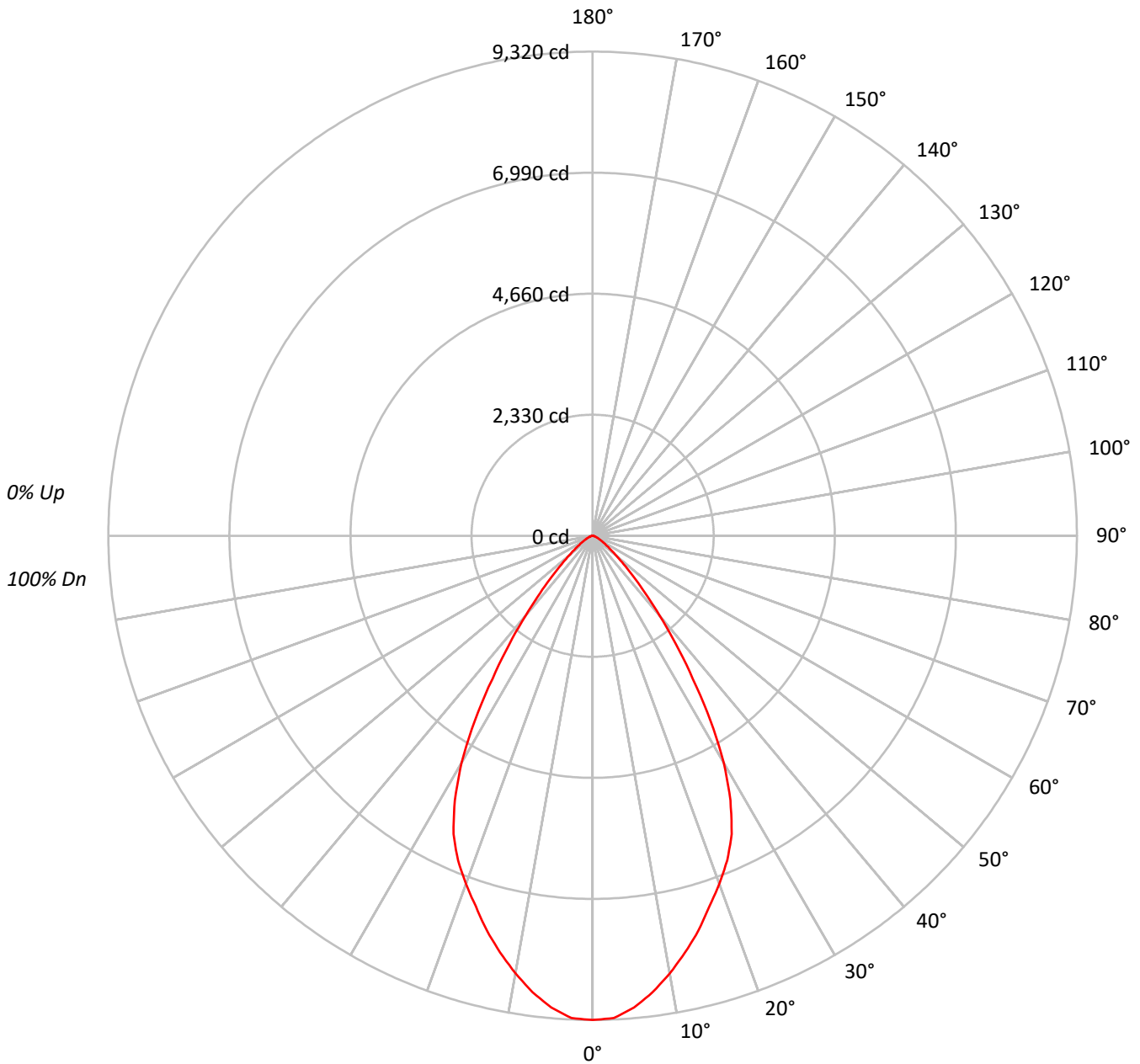
Lumens per Lamp: N/A  
Luminaire Lumens: 9417.0 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 142.3  
Input Voltage (V): NR  
Input Current (Ain): 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	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°	510902
5°	501754
10°	476116
15°	446472
20°	415801
25°	383121
30°	319226
35°	224995
40°	143390
45°	85513
50°	50472
55°	32114
60°	22114
65°	15696
70°	10803
75°	8536
80°	4199
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	852.1	9.0
10°-20°	2204.4	23.4
20°-30°	2856.3	30.3
30°-40°	2120.6	22.5
40°-50°	895.2	9.5
50°-60°	317.8	3.4
60°-70°	122.7	1.3
70°-80°	42.5	0.5
80°-90°	5.4	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°	5912.8	62.8
0°-40°	8033.4	85.3
0°-60°	9246.4	98.2
0°-90°	9417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9417.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9320	
5°	9118	852
15°	7867	2204
25°	6334	2856
35°	3362	2121
45°	1103	895
55°	336	318
65°	121	123
75°	40	42
85°	0	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9319.6
2.5°	9292.5
5°	9117.9
7.5°	8862.0
10°	8553.1
12.5°	8216.6
15°	7866.8
17.5°	7477.2
20°	7127.4
22.5°	6764.4
25°	6333.9
27.5°	5742.1
30°	5043.0
32.5°	4222.4
35°	3362.0
37.5°	2635.9
40°	2003.7
42.5°	1492.6
45°	1103.0
47.5°	806.8
50°	591.8
52.5°	443.7
55°	336.0
57.5°	255.3
60°	201.7
62.5°	148.1
65°	121.0
67.5°	93.9
70°	67.4
72.5°	53.6
75°	40.3
77.5°	27.1
80°	13.3
82.5°	13.3
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)