

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: P575308

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-27 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P575308  
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-90-27 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

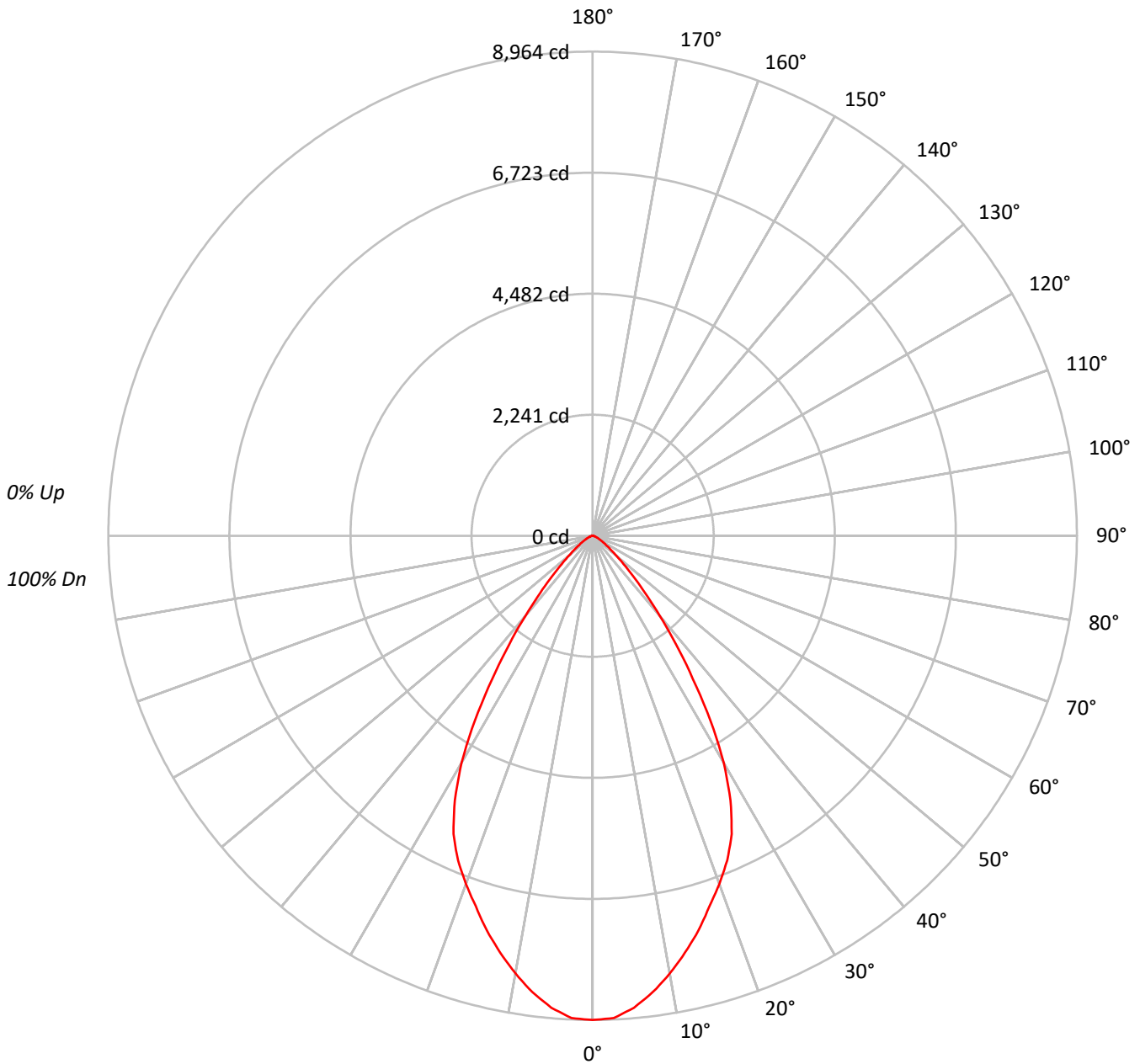
Lumens per Lamp: N/A  
Luminaire Lumens: 9058.0 lumens  
Efficiency: N/A  
Efficacy: 63.7 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 142.3  
Input Voltage (V): NR  
Input Current (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	
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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85
3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46

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

	0°
0°	491424
5°	482626
10°	457969
15°	429452
20°	399951
25°	368513
30°	307060
35°	216416
40°	137923
45°	82249
50°	48553
55°	30890
60°	21270
65°	15099
70°	10386
75°	8218
80°	4041
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	819.6	9.0
10°-20°	2120.4	23.4
20°-30°	2747.4	30.3
30°-40°	2039.7	22.5
40°-50°	861.1	9.5
50°-60°	305.7	3.4
60°-70°	118.0	1.3
70°-80°	40.8	0.5
80°-90°	5.2	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°	5687.4	62.8
0°-40°	7727.1	85.3
0°-60°	8893.9	98.2
0°-90°	9058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9058.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8964	
5°	8770	820
15°	7567	2120
25°	6092	2747
35°	3234	2040
45°	1061	861
55°	323	306
65°	116	118
75°	39	41
85°	0	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8964.3
2.5°	8938.3
5°	8770.3
7.5°	8524.2
10°	8227.1
12.5°	7903.4
15°	7566.9
17.5°	7192.2
20°	6855.7
22.5°	6506.5
25°	6092.4
27.5°	5523.2
30°	4850.8
32.5°	4061.5
35°	3233.8
37.5°	2535.4
40°	1927.3
42.5°	1435.7
45°	1060.9
47.5°	776.0
50°	569.3
52.5°	426.8
55°	323.2
57.5°	245.6
60°	194.0
62.5°	142.4
65°	116.4
67.5°	90.4
70°	64.8
72.5°	51.6
75°	38.8
77.5°	26.0
80°	12.8
82.5°	12.8
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)