

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: P575428

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-35 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P575428  
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-90-35 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

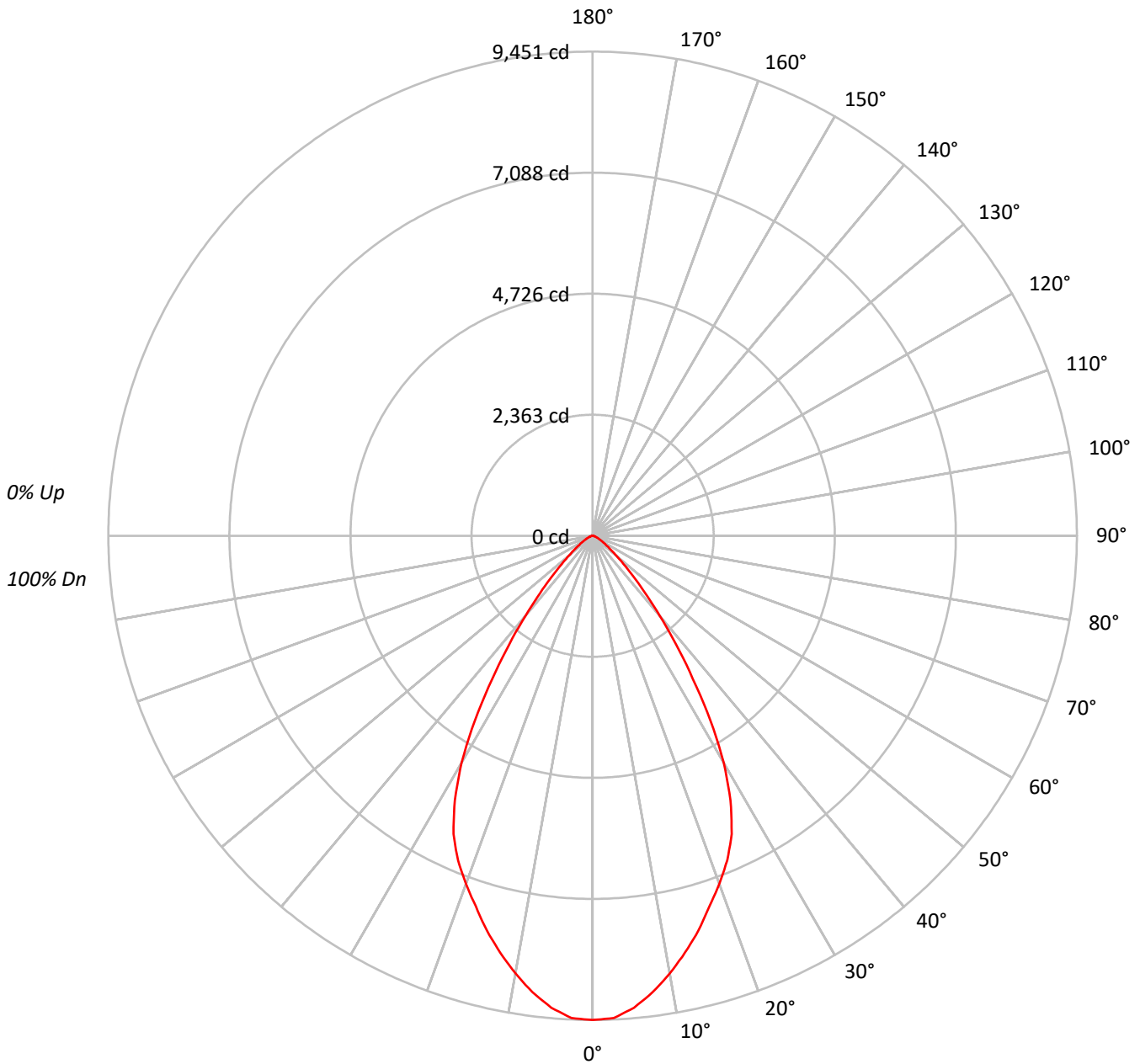
Lumens per Lamp: N/A  
Luminaire Lumens: 9550.0 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	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°	518116
5°	508842
10°	482840
15°	452778
20°	421676
25°	388535
30°	323733
35°	228174
40°	145415
45°	86722
50°	51188
55°	32563
60°	22421
65°	15916
70°	10963
75°	8663
80°	4262
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	864.2	9.0
10°-20°	2235.5	23.4
20°-30°	2896.7	30.3
30°-40°	2150.5	22.5
40°-50°	907.9	9.5
50°-60°	322.3	3.4
60°-70°	124.4	1.3
70°-80°	43.1	0.5
80°-90°	5.5	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°	5996.3	62.8
0°-40°	8146.8	85.3
0°-60°	9377.0	98.2
0°-90°	9550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9550.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9451	
5°	9247	864
15°	7978	2236
25°	6423	2897
35°	3410	2151
45°	1119	908
55°	341	322
65°	123	124
75°	41	43
85°	0	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9451.2
2.5°	9423.8
5°	9246.7
7.5°	8987.2
10°	8673.9
12.5°	8332.6
15°	7977.9
17.5°	7582.8
20°	7228.1
22.5°	6859.9
25°	6423.4
27.5°	5823.2
30°	5114.2
32.5°	4282.1
35°	3409.5
37.5°	2673.1
40°	2032.0
42.5°	1513.7
45°	1118.6
47.5°	818.2
50°	600.2
52.5°	450.0
55°	340.7
57.5°	258.9
60°	204.5
62.5°	150.2
65°	122.7
67.5°	95.3
70°	68.4
72.5°	54.4
75°	40.9
77.5°	27.5
80°	13.5
82.5°	13.5
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)