

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: P577988

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

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P577988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-50-D010 FEU6C-X-90-50 F6X-W-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

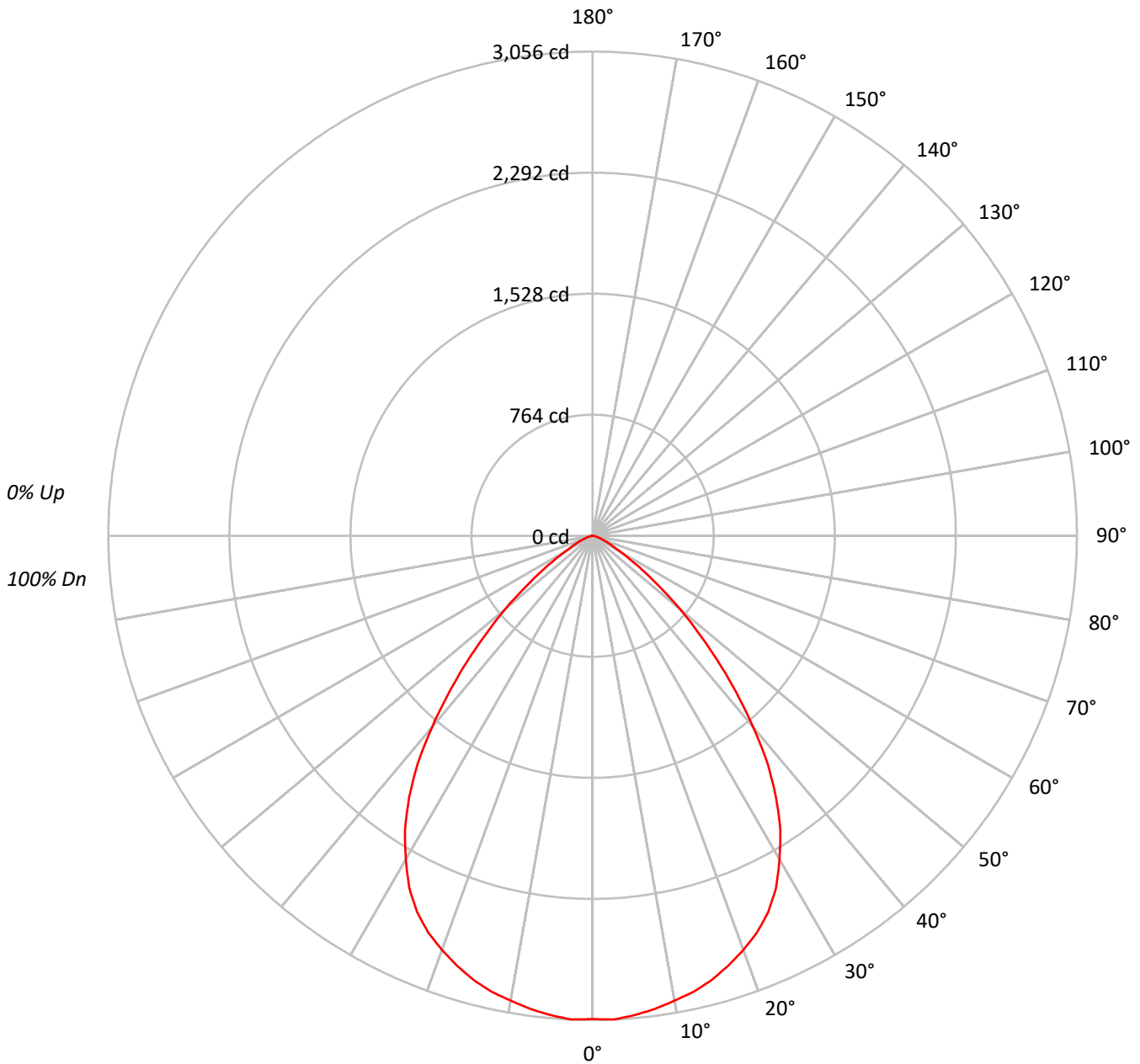
Lumens per Lamp: N/A  
Luminaire Lumens: 4945.0 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.4  
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			41
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			38

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

	0°
0°	167196
5°	167136
10°	165851
15°	164740
20°	162233
25°	158525
30°	149263
35°	135078
40°	112797
45°	86428
50°	61209
55°	38594
60°	21775
65°	14126
70°	9232
75°	6778
80°	4072
85°	4026



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.1	5.8
10°-20°	817.4	16.5
20°-30°	1198.5	24.2
30°-40°	1247.3	25.2
40°-50°	863.0	17.5
50°-60°	375.7	7.6
60°-70°	115.2	2.3
70°-80°	34.5	0.7
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°	2304.0	46.6
0°-40°	3551.3	71.8
0°-60°	4790.0	96.9
0°-90°	4945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4945.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3050	
5°	3037	288
15°	2903	817
25°	2621	1198
35°	2018	1247
45°	1115	863
55°	404	376
65°	109	115
75°	32	35
85°	6	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3049.9
2.5°	3056.3
5°	3037.2
7.5°	3011.7
10°	2979.4
12.5°	2947.4
15°	2902.7
17.5°	2844.9
20°	2780.9
22.5°	2710.4
25°	2620.8
27.5°	2505.4
30°	2358.0
32.5°	2204.1
35°	2018.4
37.5°	1813.4
40°	1576.2
42.5°	1339.2
45°	1114.8
47.5°	903.4
50°	717.7
52.5°	544.7
55°	403.8
57.5°	288.4
60°	198.6
62.5°	147.4
65°	108.9
67.5°	83.4
70°	57.6
72.5°	44.9
75°	32.0
77.5°	19.1
80°	12.9
82.5°	6.4
85°	6.4
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)