

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: P577708

Luminaire Tested: **FLD6C-50-D010 FEU6C-X-90-27 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P577708  
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-50-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**

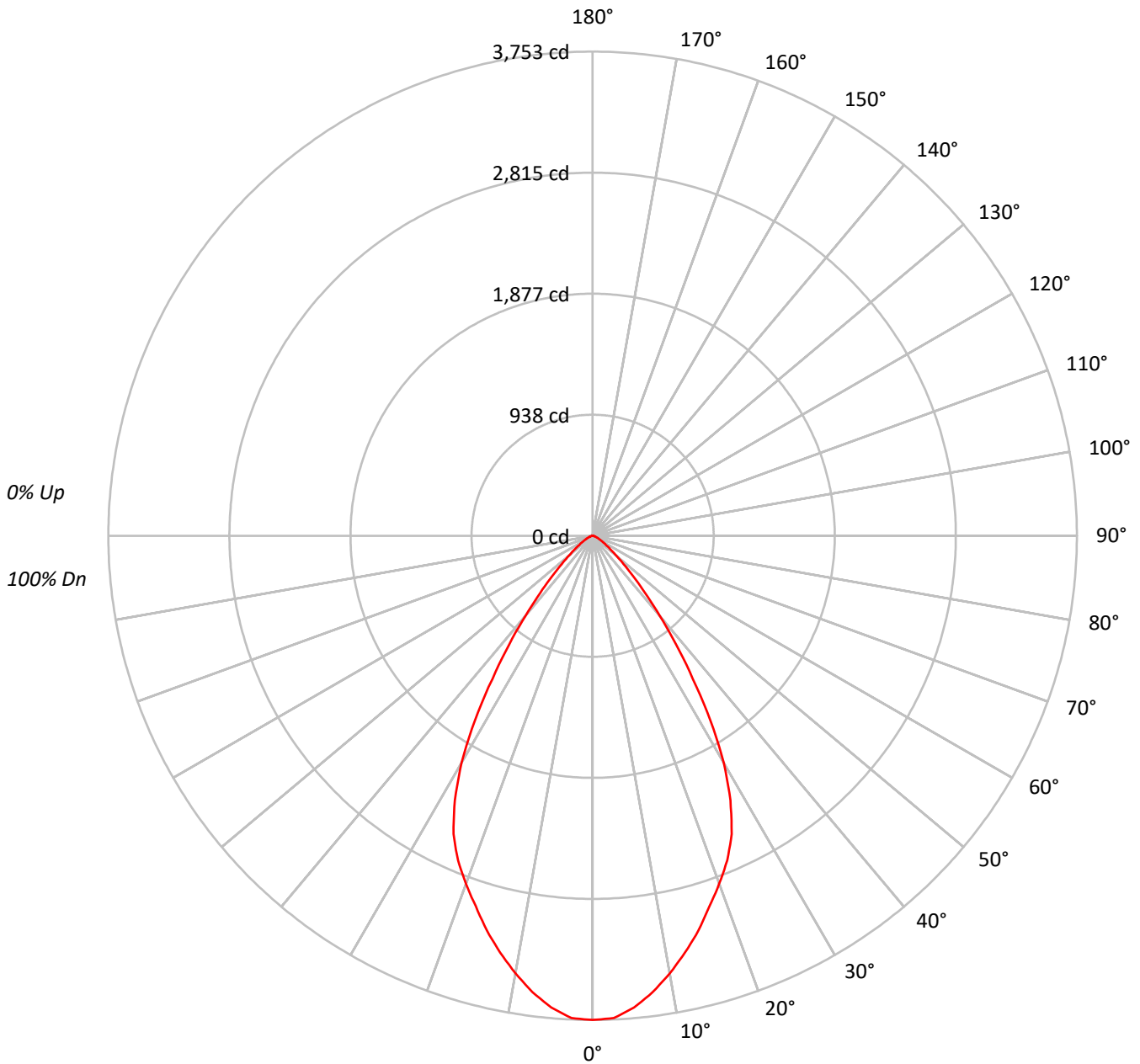
Lumens per Lamp: N/A  
Luminaire Lumens: 3791.9 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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									20
RC	80									50									30									10									0									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																			100									
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			92									
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			85									
3	101	94	88	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78																			78									
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72																			72									
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66																			66									
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61																			61									
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			57									
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53																			53									
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49																			49									
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46																			46									

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

	0°
0°	205729
5°	202047
10°	191719
15°	179785
20°	167431
25°	154273
30°	128545
35°	90600
40°	57744
45°	34430
50°	20323
55°	12931
60°	8903
65°	6317
70°	4344
75°	3431
80°	1673
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.1	9.0
10°-20°	887.7	23.4
20°-30°	1150.2	30.3
30°-40°	853.9	22.5
40°-50°	360.5	9.5
50°-60°	128.0	3.4
60°-70°	49.4	1.3
70°-80°	17.1	0.5
80°-90°	2.2	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°	2380.9	62.8
0°-40°	3234.8	85.3
0°-60°	3723.3	98.2
0°-90°	3791.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3791.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3753	
5°	3672	343
15°	3168	888
25°	2550	1150
35°	1354	854
45°	444	360
55°	135	128
65°	49	49
75°	16	17
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3752.8
2.5°	3741.9
5°	3671.6
7.5°	3568.5
10°	3444.1
12.5°	3308.6
15°	3167.8
17.5°	3010.9
20°	2870.0
22.5°	2723.8
25°	2550.5
27.5°	2312.2
30°	2030.7
32.5°	1700.3
35°	1353.8
37.5°	1061.4
40°	806.9
42.5°	601.0
45°	444.1
47.5°	324.9
50°	238.3
52.5°	178.7
55°	135.3
57.5°	102.8
60°	81.2
62.5°	59.6
65°	48.7
67.5°	37.8
70°	27.1
72.5°	21.6
75°	16.2
77.5°	10.9
80°	5.3
82.5°	5.3
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)