

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: P574068

Luminaire Tested: **FLD6C-02-D010 FEU6C-X-90-50 F6X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P574068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-02-D010 FEU6C-X-90-50 F6X-N-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

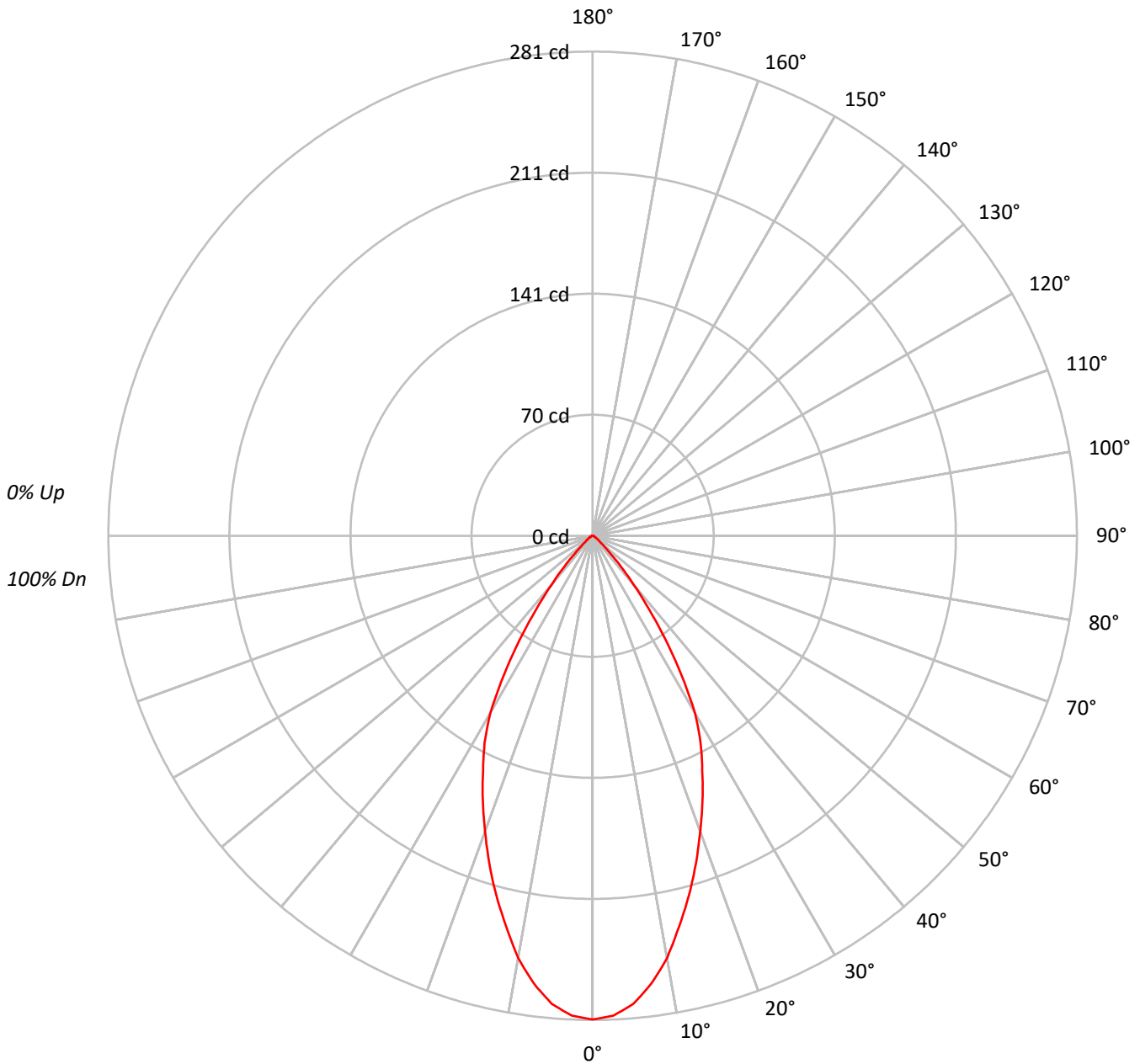
Lumens per Lamp: N/A  
Luminaire Lumens: 219.0 lumens  
Efficiency: N/A  
Efficacy: 62.6 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.5  
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

TEST NUMBER: P574068

CATALOG NUMBER: FLD6C-02-D010 FEU6C-X-90-50 F6X-N-X-H

### Luminous Intensity Polar Plot





TEST NUMBER: P574068

CATALOG NUMBER: FLD6C-02-D010 FEU6C-X-90-50 F6X-N-X-H

**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			
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51			

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

	0°
0°	15388
5°	15007
10°	13850
15°	12259
20°	10647
25°	9103
30°	7507
35°	4946
40°	2655
45°	1178
50°	478
55°	344
60°	219
65°	156
70°	128
75°	85
80°	126
85°	0



TEST NUMBER: P574068

CATALOG NUMBER: FLD6C-02-D010 FEU6C-X-90-50 F6X-N-X-H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.2	11.5
10°-20°	60.2	27.5
20°-30°	69.0	31.5
30°-40°	46.3	21.2
40°-50°	13.3	6.1
50°-60°	3.2	1.5
60°-70°	1.2	0.6
70°-80°	0.5	0.2
80°-90°	0.1	0.0
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°	154.4	70.5
0°-40°	200.7	91.7
0°-60°	217.2	99.2
0°-90°	219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	219.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	281	
5°	273	25
15°	216	60
25°	150	69
35°	74	46
45°	15	13
55°	4	3
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P574068

CATALOG NUMBER: FLD6C-02-D010 FEU6C-X-90-50 F6X-N-X-H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	280.7
2.5°	278.7
5°	272.7
7.5°	262.0
10°	248.8
12.5°	232.0
15°	216.0
17.5°	199.3
20°	182.5
22.5°	166.5
25°	150.5
27.5°	135.8
30°	118.6
32.5°	95.8
35°	73.9
37.5°	53.9
40°	37.1
42.5°	24.4
45°	15.2
47.5°	9.2
50°	5.6
52.5°	4.4
55°	3.6
57.5°	2.8
60°	2.0
62.5°	1.6
65°	1.2
67.5°	0.8
70°	0.8
72.5°	0.4
75°	0.4
77.5°	0.4
80°	0.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)