

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: P577298

Luminaire Tested: **FLD6C-40-D010 FEU6C-X-90-40 F6X-M-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P577298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-40-D010 FEU6C-X-90-40 F6X-M-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBMLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

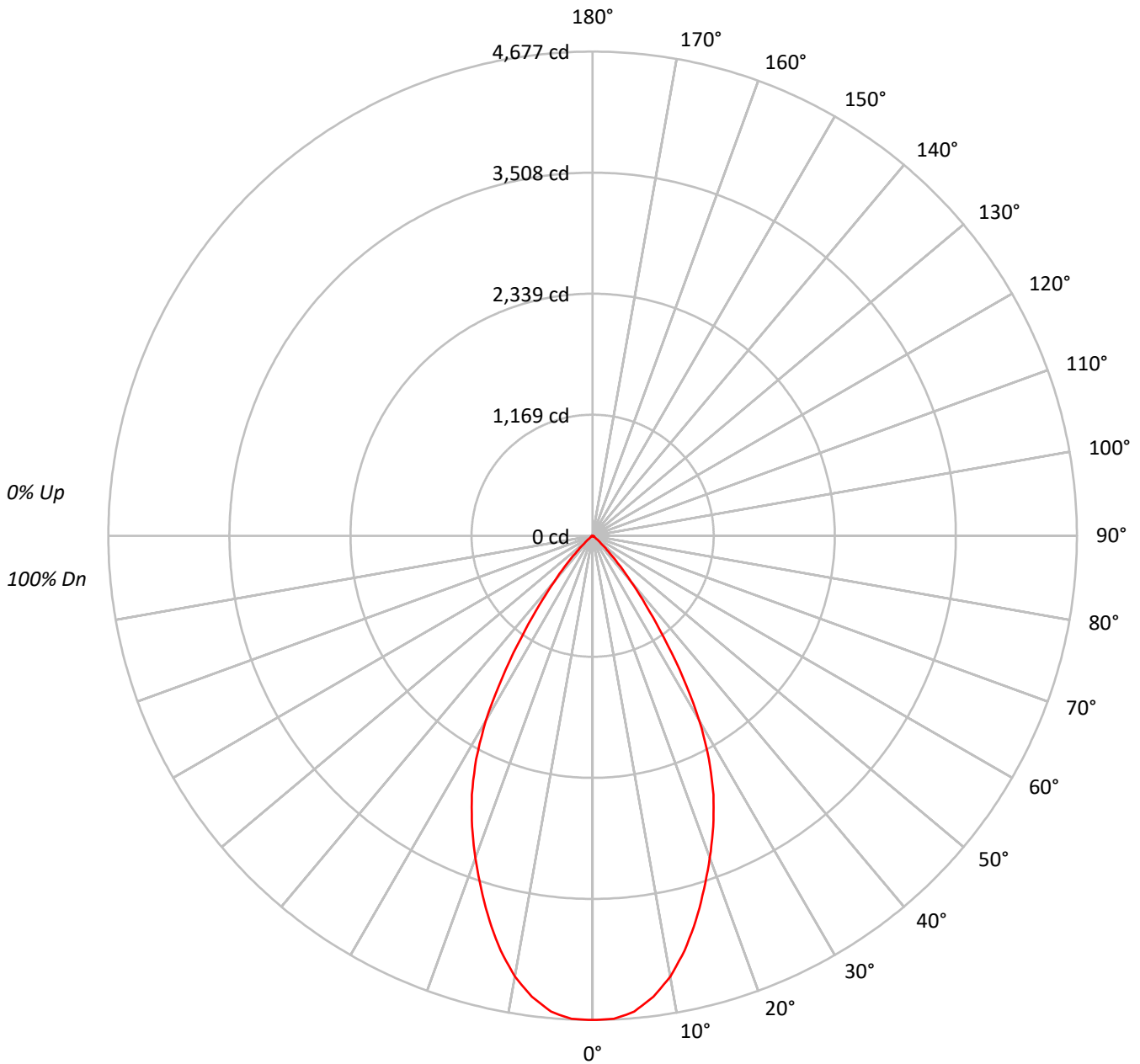
Lumens per Lamp: N/A  
Luminaire Lumens: 3737.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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: P577298

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-40 F6X-M-X-LI

### Luminous Intensity Polar Plot





TEST NUMBER: P577298

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-40 F6X-M-X-LI

**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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82			
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76			
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			

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

	0°
0°	256377
5°	253939
10°	240627
15°	218469
20°	193048
25°	166897
30°	130463
35°	80007
40°	41063
45°	16312
50°	5296
55°	1826
60°	1568
65°	1245
70°	769
75°	1017
80°	0
85°	0



TEST NUMBER: P577298

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-40 F6X-M-X-LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.8	11.5
10°-20°	1072.6	28.7
20°-30°	1246.8	33.4
30°-40°	763.5	20.4
40°-50°	189.6	5.1
50°-60°	22.1	0.6
60°-70°	8.3	0.2
70°-80°	3.1	0.1
80°-90°	0.0	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°	2750.3	73.6
0°-40°	3513.8	94.0
0°-60°	3725.5	99.7
0°-90°	3737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3737.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4677	
5°	4615	431
15°	3849	1073
25°	2759	1247
35°	1196	764
45°	210	190
55°	19	22
65°	10	8
75°	5	3
85°	0	0
90°	0	



TEST NUMBER: P577298

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-40 F6X-M-X-LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4676.7
2.5°	4671.9
5°	4614.6
7.5°	4490.2
10°	4322.7
12.5°	4102.8
15°	3849.4
17.5°	3576.8
20°	3309.1
22.5°	3041.2
25°	2759.2
27.5°	2434.0
30°	2061.0
32.5°	1625.8
35°	1195.5
37.5°	841.6
40°	573.8
42.5°	358.6
45°	210.4
47.5°	119.6
50°	62.1
52.5°	28.7
55°	19.1
57.5°	14.3
60°	14.3
62.5°	9.6
65°	9.6
67.5°	4.8
70°	4.8
72.5°	4.8
75°	4.8
77.5°	0.0
80°	0.0
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)