

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: P577108

Luminaire Tested: **FLD6C-40-D010 FEU6C-X-90-27 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P577108  
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-40-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**

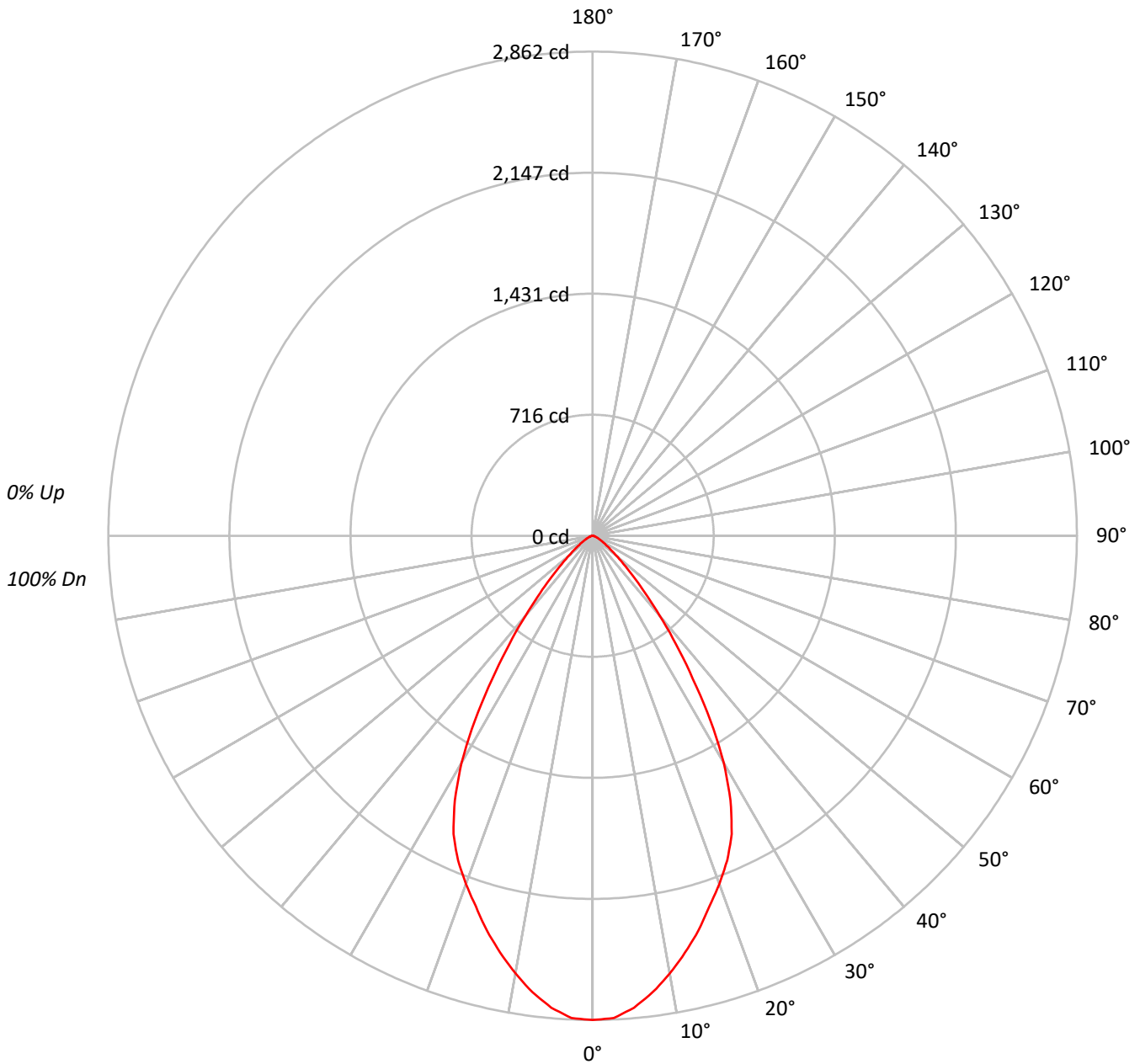
Lumens per Lamp: N/A  
Luminaire Lumens: 2892.1 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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: P577108

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-27 F6X-M-X-H

### Luminous Intensity Polar Plot





TEST NUMBER: P577108

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-27 F6X-M-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			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	87	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°	156901
5°	154088
10°	146218
15°	137112
20°	127697
25°	117660
30°	98034
35°	69098
40°	44040
45°	26259
50°	15505
55°	9863
60°	6787
65°	4825
70°	3318
75°	2626
80°	1294
85°	0



TEST NUMBER: P577108

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-27 F6X-M-X-H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.7	9.0
10°-20°	677.0	23.4
20°-30°	877.2	30.3
30°-40°	651.2	22.5
40°-50°	274.9	9.5
50°-60°	97.6	3.4
60°-70°	37.7	1.3
70°-80°	13.1	0.5
80°-90°	1.7	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°	1815.9	62.8
0°-40°	2467.1	85.3
0°-60°	2839.6	98.2
0°-90°	2892.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2892.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2862	
5°	2800	262
15°	2416	677
25°	1945	877
35°	1032	651
45°	339	275
55°	103	98
65°	37	38
75°	12	13
85°	0	2
90°	0	



TEST NUMBER: P577108

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-27 F6X-M-X-H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2862.1
2.5°	2853.8
5°	2800.1
7.5°	2721.6
10°	2626.7
12.5°	2523.4
15°	2415.9
17.5°	2296.3
20°	2188.9
22.5°	2077.4
25°	1945.2
27.5°	1763.4
30°	1548.7
32.5°	1296.7
35°	1032.5
37.5°	809.5
40°	615.4
42.5°	458.4
45°	338.7
47.5°	247.8
50°	181.8
52.5°	136.3
55°	103.2
57.5°	78.4
60°	61.9
62.5°	45.5
65°	37.2
67.5°	28.9
70°	20.7
72.5°	16.5
75°	12.4
77.5°	8.3
80°	4.1
82.5°	4.1
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)