

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: P577408

Luminaire Tested: **FLD6C-45-D010 FEU6C-X-90-27 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P577408  
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-45-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**

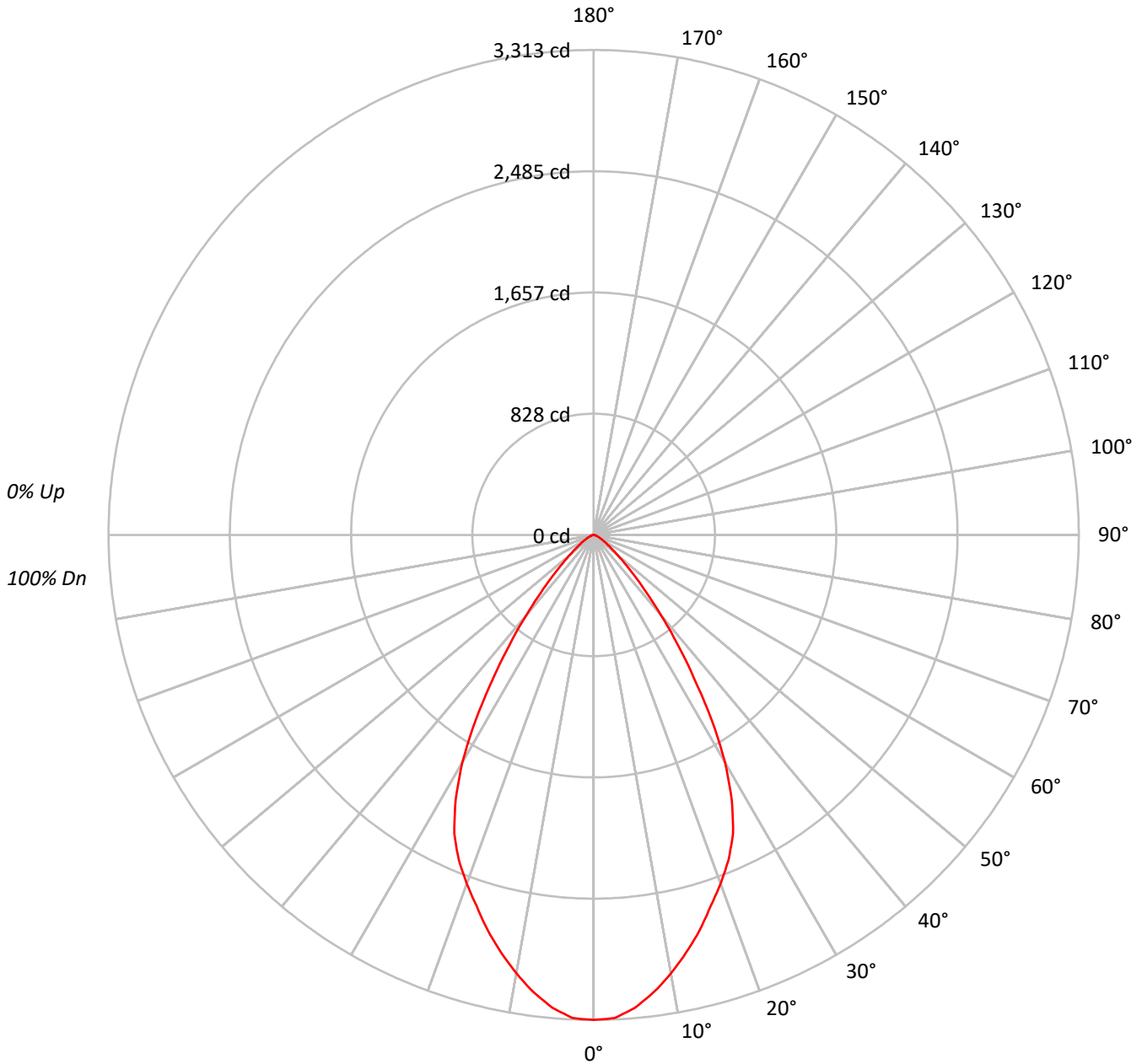
Lumens per Lamp: N/A  
Luminaire Lumens: 3348.0 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.6  
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: P577408

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-27 F6X-M-X-H

### Luminous Intensity Polar Plot





TEST NUMBER: P577408

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-27 F6X-M-X-H

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

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

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

	0°
0°	181641
5°	178389
10°	169274
15°	158735
20°	147830
25°	136211
30°	113492
35°	79993
40°	50981
45°	30399
50°	17944
55°	11421
60°	7861
65°	5578
70°	3847
75°	3029
80°	1484
85°	0



TEST NUMBER: P577408

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-27 F6X-M-X-H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.0	9.0
10°-20°	783.7	23.4
20°-30°	1015.5	30.3
30°-40°	753.9	22.5
40°-50°	318.3	9.5
50°-60°	113.0	3.4
60°-70°	43.6	1.3
70°-80°	15.1	0.5
80°-90°	1.9	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°	2102.2	62.8
0°-40°	2856.1	85.3
0°-60°	3287.4	98.2
0°-90°	3348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3348.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3313	
5°	3242	303
15°	2797	784
25°	2252	1015
35°	1195	754
45°	392	318
55°	120	113
65°	43	44
75°	14	15
85°	0	2
90°	0	



TEST NUMBER: P577408

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-27 F6X-M-X-H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3313.4
2.5°	3303.7
5°	3241.7
7.5°	3150.7
10°	3040.9
12.5°	2921.2
15°	2796.9
17.5°	2658.4
20°	2534.0
22.5°	2404.9
25°	2251.9
27.5°	2041.5
30°	1792.9
32.5°	1501.2
35°	1195.3
37.5°	937.1
40°	712.4
42.5°	530.7
45°	392.1
47.5°	286.8
50°	210.4
52.5°	157.8
55°	119.5
57.5°	90.8
60°	71.7
62.5°	52.7
65°	43.0
67.5°	33.4
70°	24.0
72.5°	19.1
75°	14.3
77.5°	9.6
80°	4.7
82.5°	4.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)