

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: P579308

Luminaire Tested: **FLD6C-75-D010 FEU6C-X-90-30 F6X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P579308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-75-D010 FEU6C-X-90-30 F6X-W-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

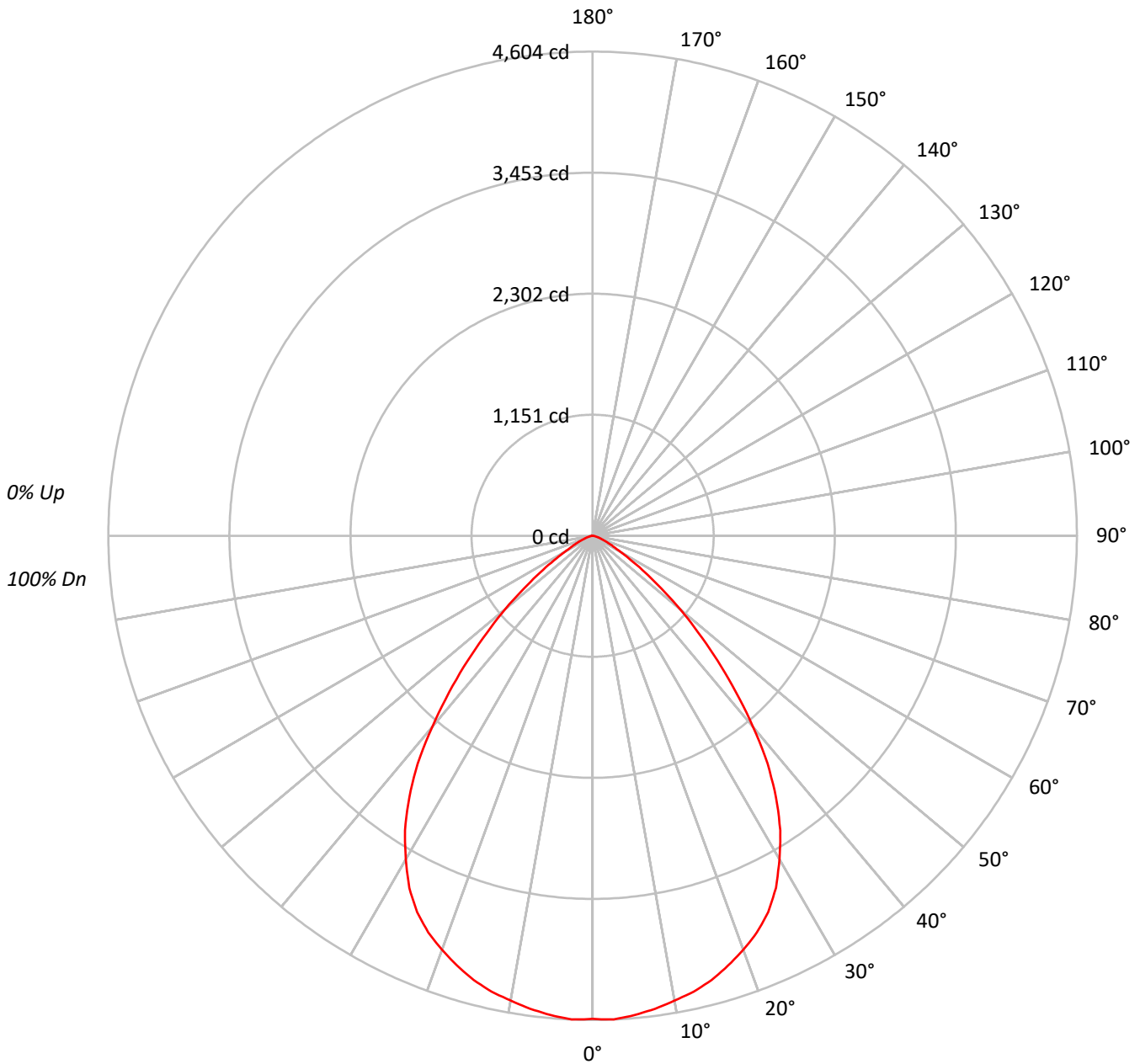
Lumens per Lamp: N/A  
Luminaire Lumens: 7449.0 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 81.5  
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: P579308

CATALOG NUMBER: FLD6C-75-D010 FEU6C-X-90-30 F6X-W-X-H

### Luminous Intensity Polar Plot





TEST NUMBER: P579308

CATALOG NUMBER: FLD6C-75-D010 FEU6C-X-90-30 F6X-W-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	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			41
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			38

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

	0°
0°	251860
5°	251771
10°	249834
15°	248163
20°	244380
25°	238798
30°	224845
35°	203480
40°	169911
45°	130192
50°	92210
55°	58129
60°	32793
65°	21286
70°	13897
75°	10209
80°	6125
85°	6101



TEST NUMBER: P579308

CATALOG NUMBER: FLD6C-75-D010 FEU6C-X-90-30 F6X-W-X-H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.9	5.8
10°-20°	1231.3	16.5
20°-30°	1805.4	24.2
30°-40°	1878.9	25.2
40°-50°	1299.9	17.5
50°-60°	566.0	7.6
60°-70°	173.6	2.3
70°-80°	52.0	0.7
80°-90°	7.9	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°	3470.6	46.6
0°-40°	5349.5	71.8
0°-60°	7215.5	96.9
0°-90°	7449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7449.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4594	
5°	4575	434
15°	4373	1231
25°	3948	1805
35°	3040	1879
45°	1679	1300
55°	608	566
65°	164	174
75°	48	52
85°	10	8
90°	0	



TEST NUMBER: P579308

CATALOG NUMBER: FLD6C-75-D010 FEU6C-X-90-30 F6X-W-X-H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4594.3
2.5°	4604.0
5°	4575.2
7.5°	4536.7
10°	4488.1
12.5°	4439.9
15°	4372.6
17.5°	4285.5
20°	4189.0
22.5°	4082.8
25°	3947.9
27.5°	3774.0
30°	3552.0
32.5°	3320.2
35°	3040.5
37.5°	2731.7
40°	2374.3
42.5°	2017.3
45°	1679.3
47.5°	1360.8
50°	1081.2
52.5°	820.6
55°	608.2
57.5°	434.4
60°	299.1
62.5°	222.1
65°	164.1
67.5°	125.6
70°	86.7
72.5°	67.7
75°	48.2
77.5°	28.8
80°	19.4
82.5°	9.7
85°	9.7
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)