

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: P580098

Luminaire Tested: **FLD6C-90-D010 FEU6C-X-90-50 F6X-W-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P580098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-90-D010 FEU6C-X-90-50 F6X-W-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

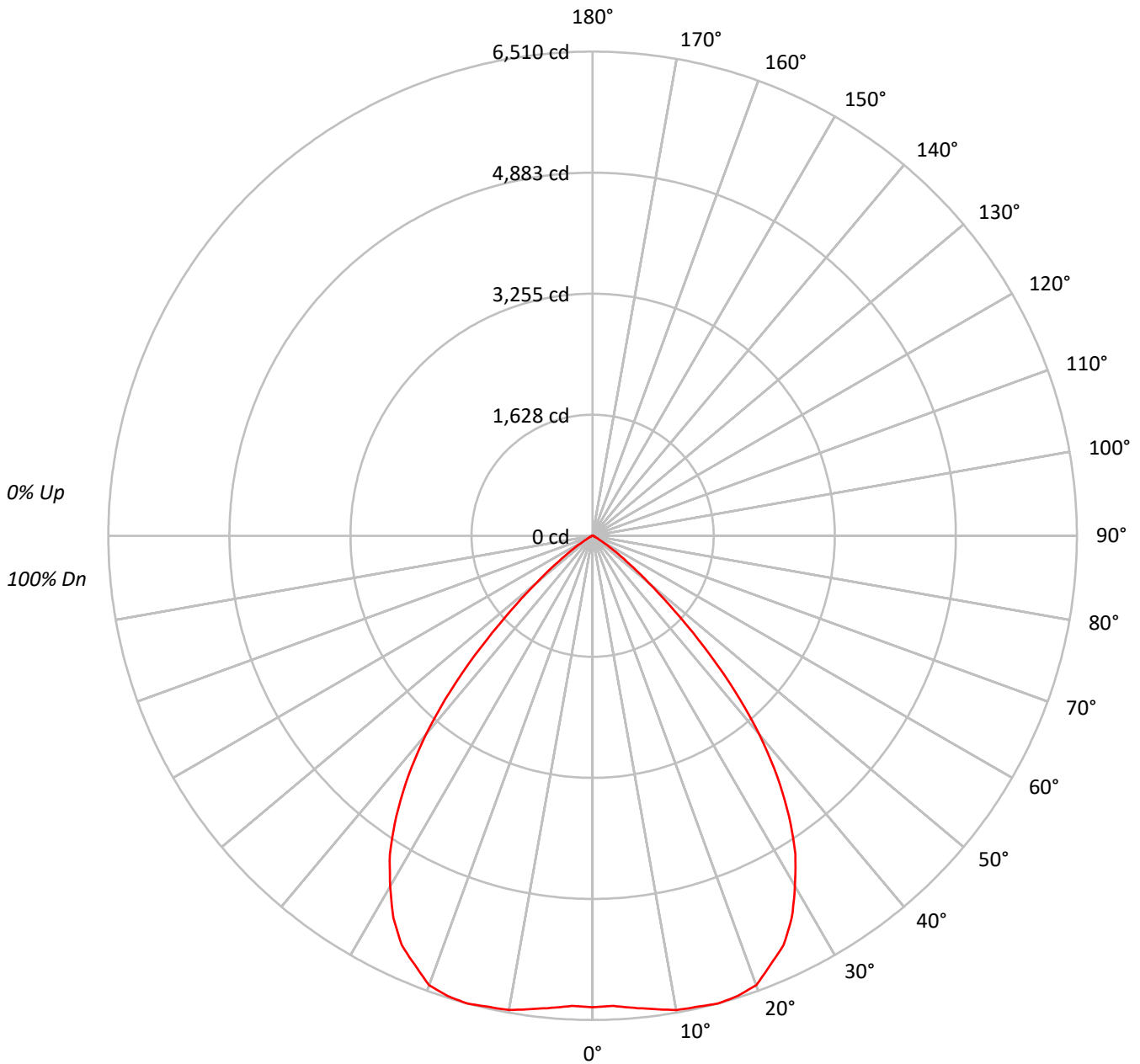
Lumens per Lamp: N/A  
Luminaire Lumens: 10145.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 97.1  
Input Voltage (V): NR  
Input Current (Ain): 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

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### Luminous Intensity Polar Plot





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

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

	0°
0°	347439
5°	350659
10°	360470
15°	369486
20°	375098
25°	367346
30°	344401
35°	307920
40°	249403
45°	164986
50°	83392
55°	35182
60°	11337
65°	4449
70°	3719
75°	2457
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	611.4	6.0
10°-20°	1837.7	18.1
20°-30°	2770.2	27.3
30°-40°	2835.5	27.9
40°-50°	1651.9	16.3
50°-60°	379.6	3.7
60°-70°	46.6	0.5
70°-80°	12.2	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°	5219.3	51.4
0°-40°	8054.8	79.4
0°-60°	10086.2	99.4
0°-90°	10145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10145.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6338	
5°	6372	611
15°	6510	1838
25°	6073	2770
35°	4601	2835
45°	2128	1652
55°	368	380
65°	34	47
75°	12	12
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6337.8
2.5°	6326.3
5°	6372.2
7.5°	6418.1
10°	6475.6
12.5°	6487.2
15°	6510.3
17.5°	6487.2
20°	6429.7
22.5°	6245.6
25°	6073.1
27.5°	5797.2
30°	5440.7
32.5°	5072.6
35°	4601.1
37.5°	4071.6
40°	3485.1
42.5°	2829.6
45°	2128.1
47.5°	1483.6
50°	977.8
52.5°	621.3
55°	368.1
57.5°	195.6
60°	103.4
62.5°	57.5
65°	34.3
67.5°	34.3
70°	23.2
72.5°	11.6
75°	11.6
77.5°	11.6
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)