

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: P580078

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

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P580078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205310)  
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-N-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBNLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

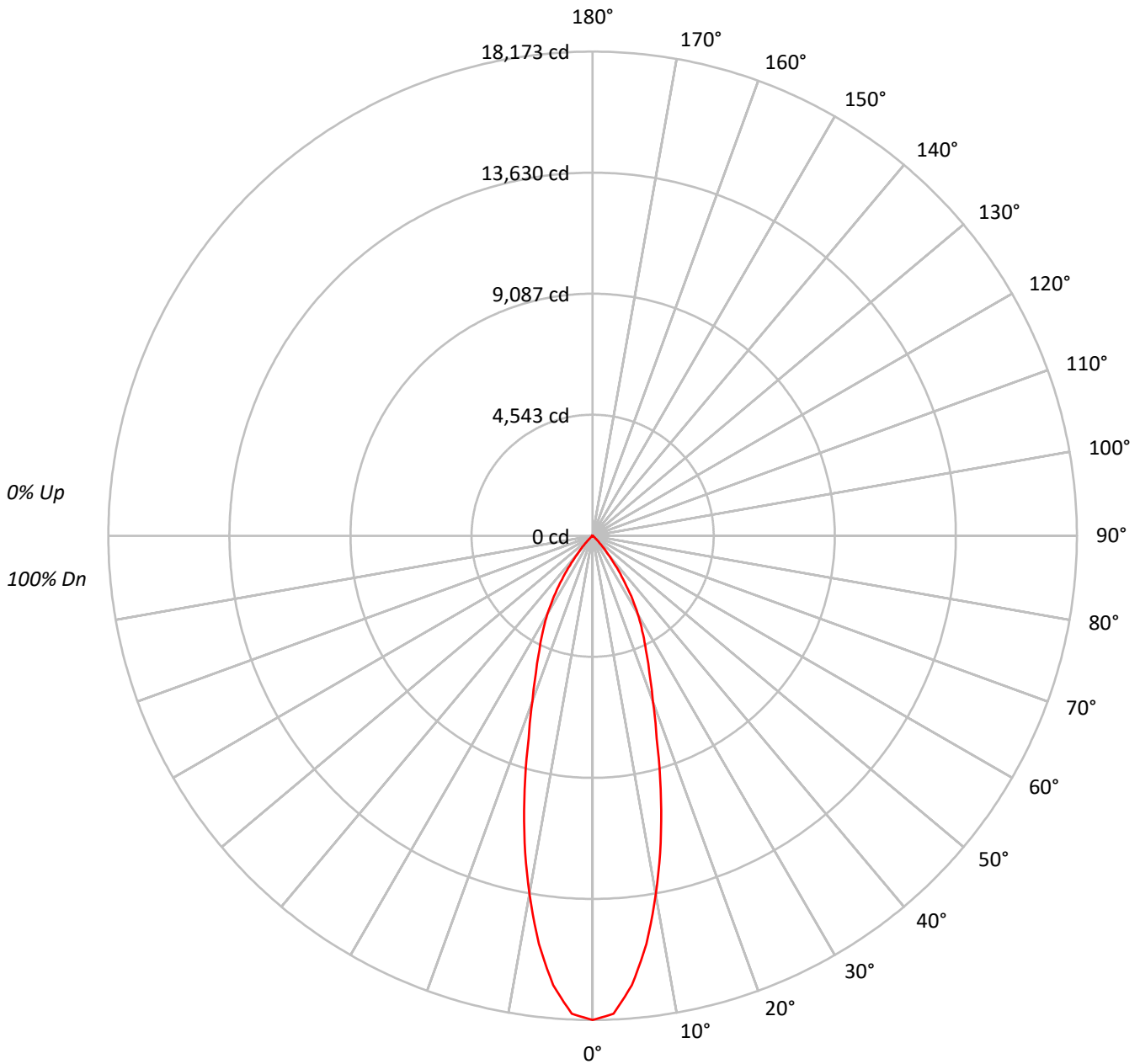
Lumens per Lamp: N/A  
Luminaire Lumens: 7982.1 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.58  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 97.1  
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

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### Luminous Intensity Polar Plot





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**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	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	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95																																			
	2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89																																			
	3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85																																			
	4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80																																			
	5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76																																			
	6	92	84	79	75	90	83	78	75	82	77	74	80	76	74	79	76	73	72																																			
	7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68																																			
	8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65																																			
	9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62																																			
	10	78	69	64	61	77	69	64	61	68	64	61	67	63	60	67	63	60	59																																			

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

	0°
0°	996252
5°	931667
10°	759845
15°	559146
20°	385401
25°	286117
30°	214919
35°	134020
40°	65058
45°	22320
50°	2925
55°	2217
60°	1272
65°	1505
70°	1859
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1511.0	18.9
10°-20°	2712.1	34.0
20°-30°	2192.8	27.5
30°-40°	1263.2	15.8
40°-50°	267.0	3.3
50°-60°	23.1	0.3
60°-70°	11.5	0.1
70°-80°	1.5	0.0
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°	6415.8	80.4
0°-40°	7679.0	96.2
0°-60°	7969.1	99.8
0°-90°	7982.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7982.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	18173	
5°	16930	###
15°	9852	2712
25°	4730	2193
35°	2003	1263
45°	288	267
55°	23	23
65°	12	12
75°	0	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	18173.1
2.5°	17954.8
5°	16930.3
7.5°	15457.1
10°	13650.1
12.5°	11797.2
15°	9852.1
17.5°	7976.1
20°	6606.3
22.5°	5559.1
25°	4730.2
27.5°	4028.4
30°	3395.2
32.5°	2693.3
35°	2002.6
37.5°	1392.6
40°	909.1
42.5°	552.6
45°	287.9
47.5°	115.0
50°	34.3
52.5°	34.3
55°	23.2
57.5°	23.2
60°	11.6
62.5°	11.6
65°	11.6
67.5°	11.6
70°	11.6
72.5°	0.0
75°	0.0
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)