

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: P574928

Luminaire Tested: **FLD6C-10-D010 FEU6C-X-90-40 F6X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P574928  
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-10-D010 FEU6C-X-90-40 F6X-W-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

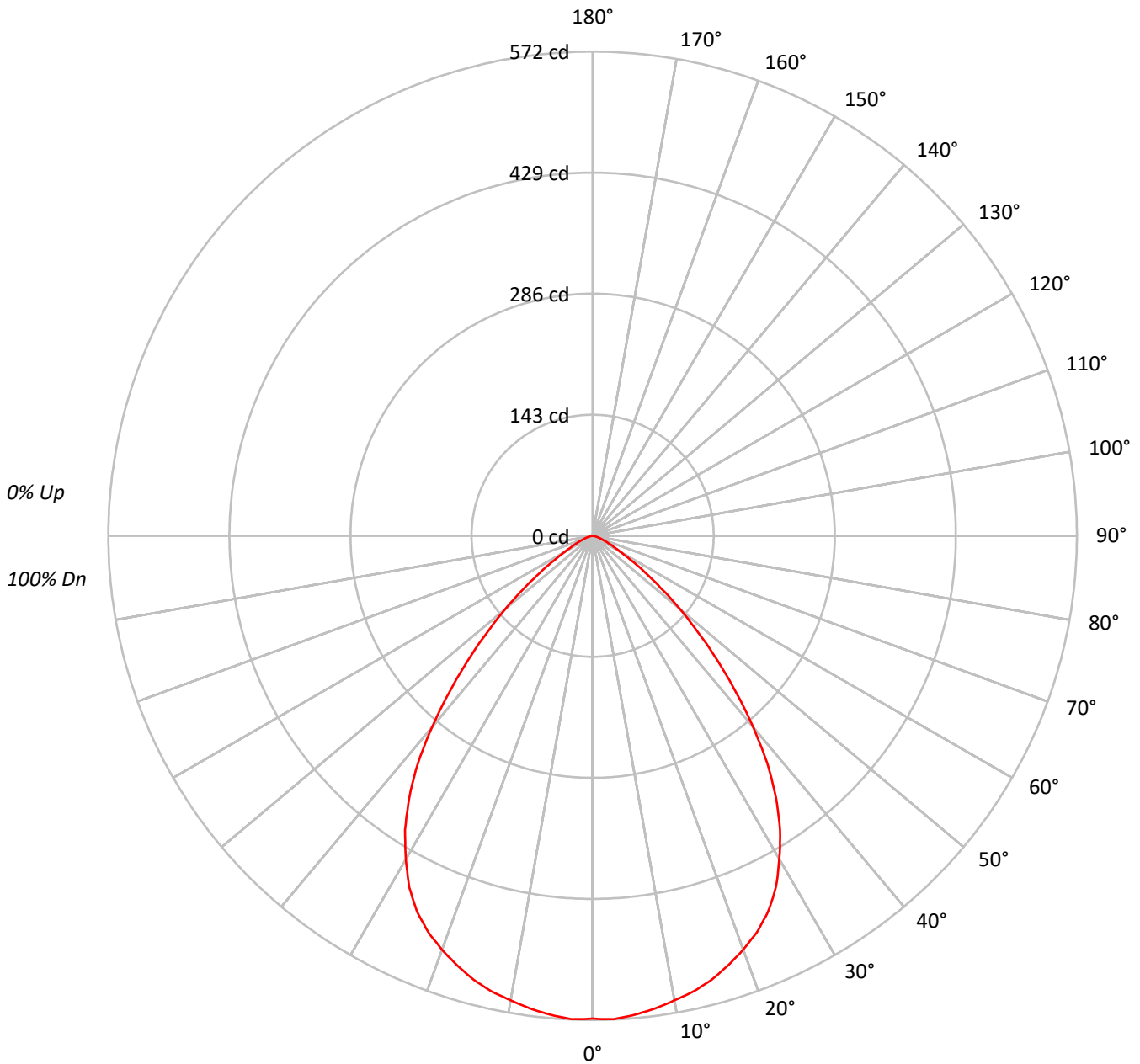
Lumens per Lamp: N/A  
Luminaire Lumens: 925.0 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.75  
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									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																			
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81																			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73																			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59																			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53																			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49																			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44																			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41																			
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38																			

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

	0°
0°	31275
5°	31262
10°	31023
15°	30817
20°	30348
25°	29651
30°	27922
35°	25270
40°	21097
45°	16164
50°	11454
55°	7216
60°	4068
65°	2646
70°	1731
75°	1271
80°	758
85°	755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.9	5.8
10°-20°	152.9	16.5
20°-30°	224.2	24.2
30°-40°	233.3	25.2
40°-50°	161.4	17.5
50°-60°	70.3	7.6
60°-70°	21.6	2.3
70°-80°	6.5	0.7
80°-90°	1.0	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°	431.0	46.6
0°-40°	664.3	71.8
0°-60°	896.0	96.9
0°-90°	925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	570	
5°	568	54
15°	543	153
25°	490	224
35°	378	233
45°	208	161
55°	76	70
65°	20	22
75°	6	6
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	570.5
2.5°	571.7
5°	568.1
7.5°	563.4
10°	557.3
12.5°	551.3
15°	543.0
17.5°	532.2
20°	520.2
22.5°	507.0
25°	490.2
27.5°	468.7
30°	441.1
32.5°	412.3
35°	377.6
37.5°	339.2
40°	294.8
42.5°	250.5
45°	208.5
47.5°	169.0
50°	134.3
52.5°	101.9
55°	75.5
57.5°	53.9
60°	37.1
62.5°	27.6
65°	20.4
67.5°	15.6
70°	10.8
72.5°	8.4
75°	6.0
77.5°	3.6
80°	2.4
82.5°	1.2
85°	1.2
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)