

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: P578928

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-27 F6X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P578928  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-70-D010 FEU6C-X-90-27 F6X-N-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

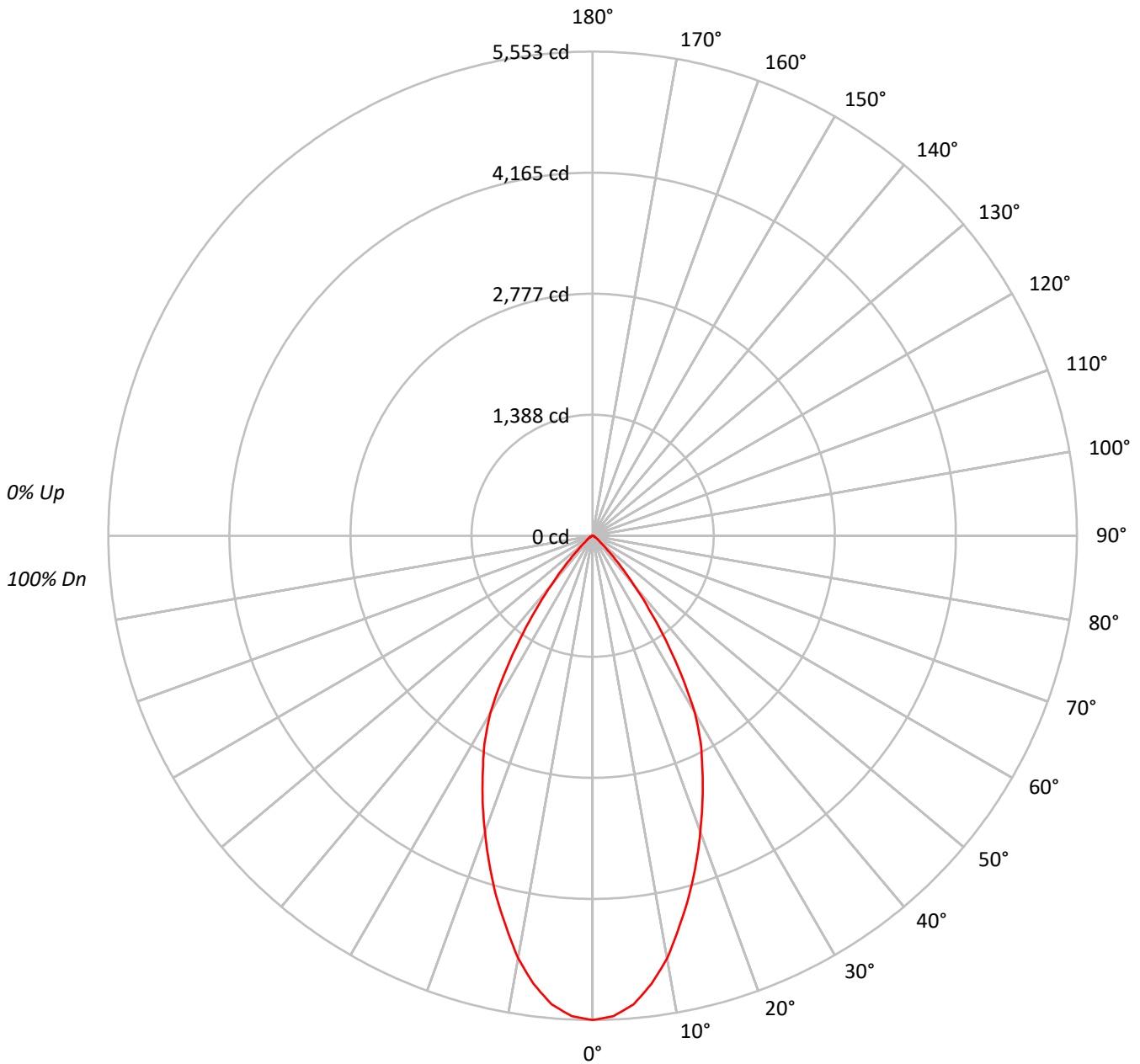
Lumens per Lamp: N/A  
Luminaire Lumens: 4331.9 lumens  
Efficiency: N/A  
Efficacy: 55.5 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 78  
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	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51

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

	0°
0°	304427
5°	296890
10°	273948
15°	242538
20°	210590
25°	180125
30°	148504
35°	97795
40°	52570
45°	23274
50°	9441
55°	6805
60°	4320
65°	3087
70°	2549
75°	1673
80°	2494
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	499.4	11.5
10°-20°	1190.9	27.5
20°-30°	1364.3	31.5
30°-40°	916.6	21.2
40°-50°	261.9	6.0
50°-60°	64.1	1.5
60°-70°	24.4	0.6
70°-80°	9.4	0.2
80°-90°	1.1	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°	3054.5	70.5
0°-40°	3971.1	91.7
0°-60°	4297.1	99.2
0°-90°	4331.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4331.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5553	
5°	5395	499
15°	4274	1191
25°	2978	1364
35°	1461	917
45°	300	262
55°	71	64
65°	24	24
75°	8	9
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5553.2
2.5°	5513.7
5°	5395.1
7.5°	5181.8
10°	4921.3
12.5°	4589.3
15°	4273.5
17.5°	3941.8
20°	3609.8
22.5°	3294.0
25°	2977.9
27.5°	2685.7
30°	2346.0
32.5°	1895.7
35°	1461.3
37.5°	1066.3
40°	734.6
42.5°	481.8
45°	300.2
47.5°	181.6
50°	110.7
52.5°	86.8
55°	71.2
57.5°	55.3
60°	39.4
62.5°	31.5
65°	23.8
67.5°	15.9
70°	15.9
72.5°	7.9
75°	7.9
77.5°	7.9
80°	7.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)