

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: P578888

Luminaire Tested: **FLD6C-65-D010 FEU6C-X-90-50 F6X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P578888  
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-65-D010 FEU6C-X-90-50 F6X-W-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

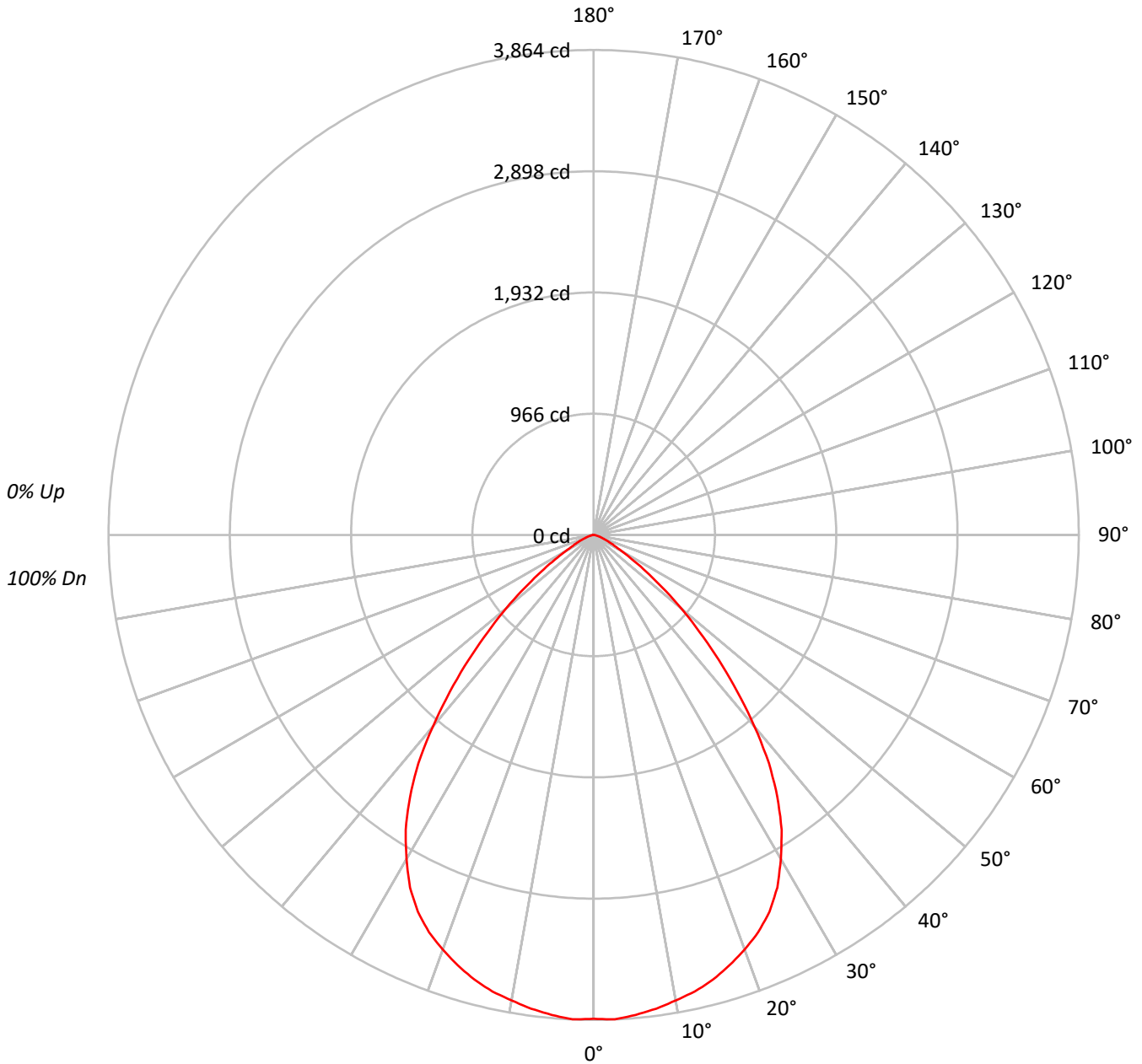
Lumens per Lamp: N/A  
Luminaire Lumens: 6251.0 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
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	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°	211354
5°	211281
10°	209654
15°	208248
20°	205077
25°	200389
30°	188681
35°	170754
40°	142589
45°	109259
50°	77379
55°	48782
60°	27520
65°	17862
70°	11669
75°	8578
80°	5146
85°	5158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.1	5.8
10°-20°	1033.3	16.5
20°-30°	1515.0	24.2
30°-40°	1576.7	25.2
40°-50°	1090.9	17.5
50°-60°	475.0	7.6
60°-70°	145.6	2.3
70°-80°	43.7	0.7
80°-90°	6.7	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°	2912.4	46.6
0°-40°	4489.2	71.8
0°-60°	6055.0	96.9
0°-90°	6251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6251.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3855	
5°	3839	364
15°	3669	1033
25°	3313	1515
35°	2552	1577
45°	1409	1091
55°	510	475
65°	138	146
75°	40	44
85°	8	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3855.4
2.5°	3863.5
5°	3839.4
7.5°	3807.1
10°	3766.3
12.5°	3725.8
15°	3669.3
17.5°	3596.2
20°	3515.3
22.5°	3426.2
25°	3312.9
27.5°	3167.1
30°	2980.7
32.5°	2786.2
35°	2551.5
37.5°	2292.4
40°	1992.5
42.5°	1692.9
45°	1409.3
47.5°	1142.0
50°	907.3
52.5°	688.6
55°	510.4
57.5°	364.5
60°	251.0
62.5°	186.3
65°	137.7
67.5°	105.4
70°	72.8
72.5°	56.8
75°	40.5
77.5°	24.2
80°	16.3
82.5°	8.2
85°	8.2
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)