

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: P575498

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-40 F6X-M-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P575498  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-120-D010 FEU6C-X-90-40 F6X-M-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBMLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

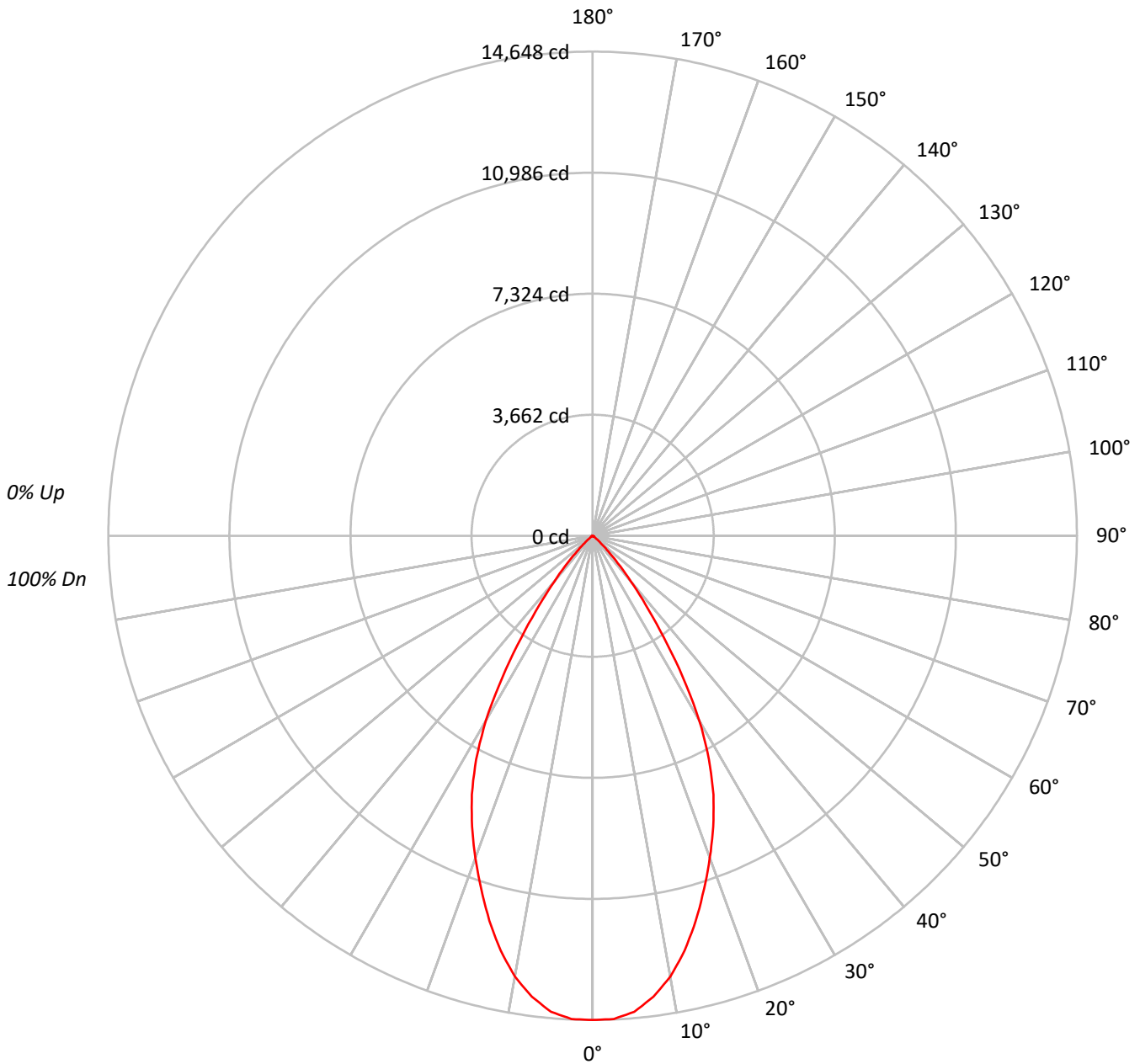
Lumens per Lamp: N/A  
Luminaire Lumens: 11705.0 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 142.3  
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94				94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88				88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82				82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76				76
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71				71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67				67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63				63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59				59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55				55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52				52

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

	0°
0°	803017
5°	795381
10°	753699
15°	684283
20°	604666
25°	522756
30°	408632
35°	250593
40°	128620
45°	51098
50°	16596
55°	5715
60°	4901
65°	3917
70°	2420
75°	3198
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1349.4	11.5
10°-20°	3359.6	28.7
20°-30°	3905.4	33.4
30°-40°	2391.5	20.4
40°-50°	593.9	5.1
50°-60°	69.4	0.6
60°-70°	26.0	0.2
70°-80°	9.9	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°	8614.4	73.6
0°-40°	11005.9	94.0
0°-60°	11669.1	99.7
0°-90°	11705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11705.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14648	
5°	14454	###
15°	12057	3360
25°	8642	3905
35°	3744	2392
45°	659	594
55°	60	69
65°	30	26
75°	15	10
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	14648.2
2.5°	14633.1
5°	14453.7
7.5°	14064.0
10°	13539.7
12.5°	12850.9
15°	12057.0
17.5°	11203.4
20°	10364.8
22.5°	9525.7
25°	8642.4
27.5°	7623.8
30°	6455.4
32.5°	5092.4
35°	3744.5
37.5°	2635.9
40°	1797.3
42.5°	1123.1
45°	659.1
47.5°	374.6
50°	194.6
52.5°	90.0
55°	59.8
57.5°	44.7
60°	44.7
62.5°	30.2
65°	30.2
67.5°	15.1
70°	15.1
72.5°	15.1
75°	15.1
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)