

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: P575588

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-50 F6X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P575588  
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-120-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**

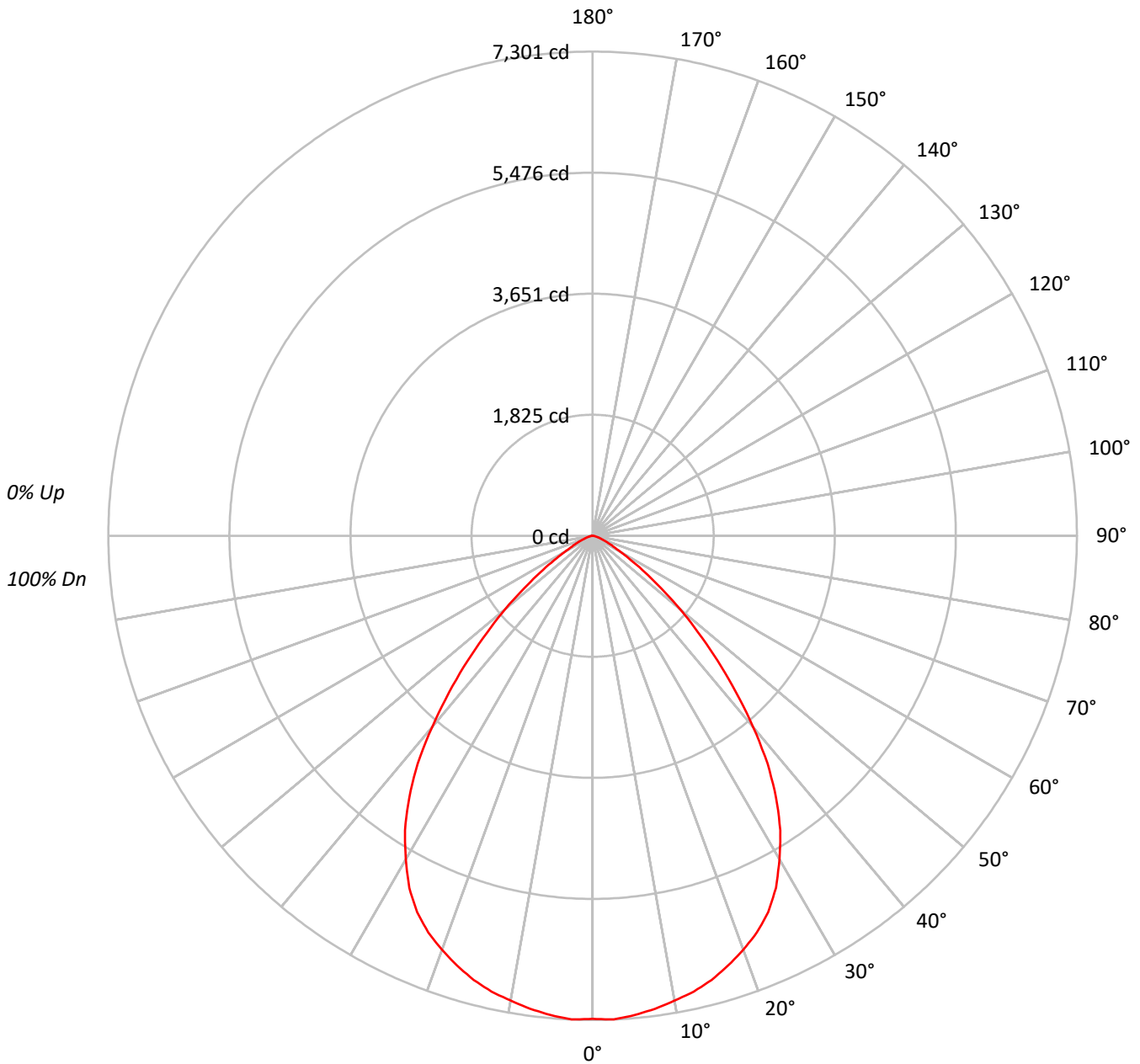
Lumens per Lamp: N/A  
Luminaire Lumens: 11812.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 142.3  
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	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°	399376
5°	399234
10°	396163
15°	393510
20°	387519
25°	378663
30°	356536
35°	322663
40°	269433
45°	206456
50°	146213
55°	92183
60°	52002
65°	33752
70°	22055
75°	16203
80°	9723
85°	9686



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.1	5.8
10°-20°	1952.5	16.5
20°-30°	2862.8	24.2
30°-40°	2979.4	25.2
40°-50°	2061.3	17.5
50°-60°	897.5	7.6
60°-70°	275.2	2.3
70°-80°	82.5	0.7
80°-90°	12.6	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°	5503.4	46.6
0°-40°	8482.8	71.8
0°-60°	11441.7	96.9
0°-90°	11812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7285	
5°	7255	688
15°	6934	1952
25°	6260	2863
35°	4821	2979
45°	2663	2061
55°	964	898
65°	260	275
75°	76	83
85°	15	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7285.2
2.5°	7300.6
5°	7254.9
7.5°	7193.9
10°	7116.8
12.5°	7040.4
15°	6933.6
17.5°	6795.5
20°	6642.6
22.5°	6474.2
25°	6260.2
27.5°	5984.5
30°	5632.4
32.5°	5264.9
35°	4821.4
37.5°	4331.7
40°	3765.0
42.5°	3198.9
45°	2663.0
47.5°	2157.9
50°	1714.4
52.5°	1301.2
55°	964.5
57.5°	688.9
60°	474.3
62.5°	352.1
65°	260.2
67.5°	199.2
70°	137.6
72.5°	107.3
75°	76.5
77.5°	45.7
80°	30.8
82.5°	15.4
85°	15.4
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)