

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: P579648

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-35 F6X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P579648  
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-80-D010 FEU6C-X-90-35 F6X-N-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

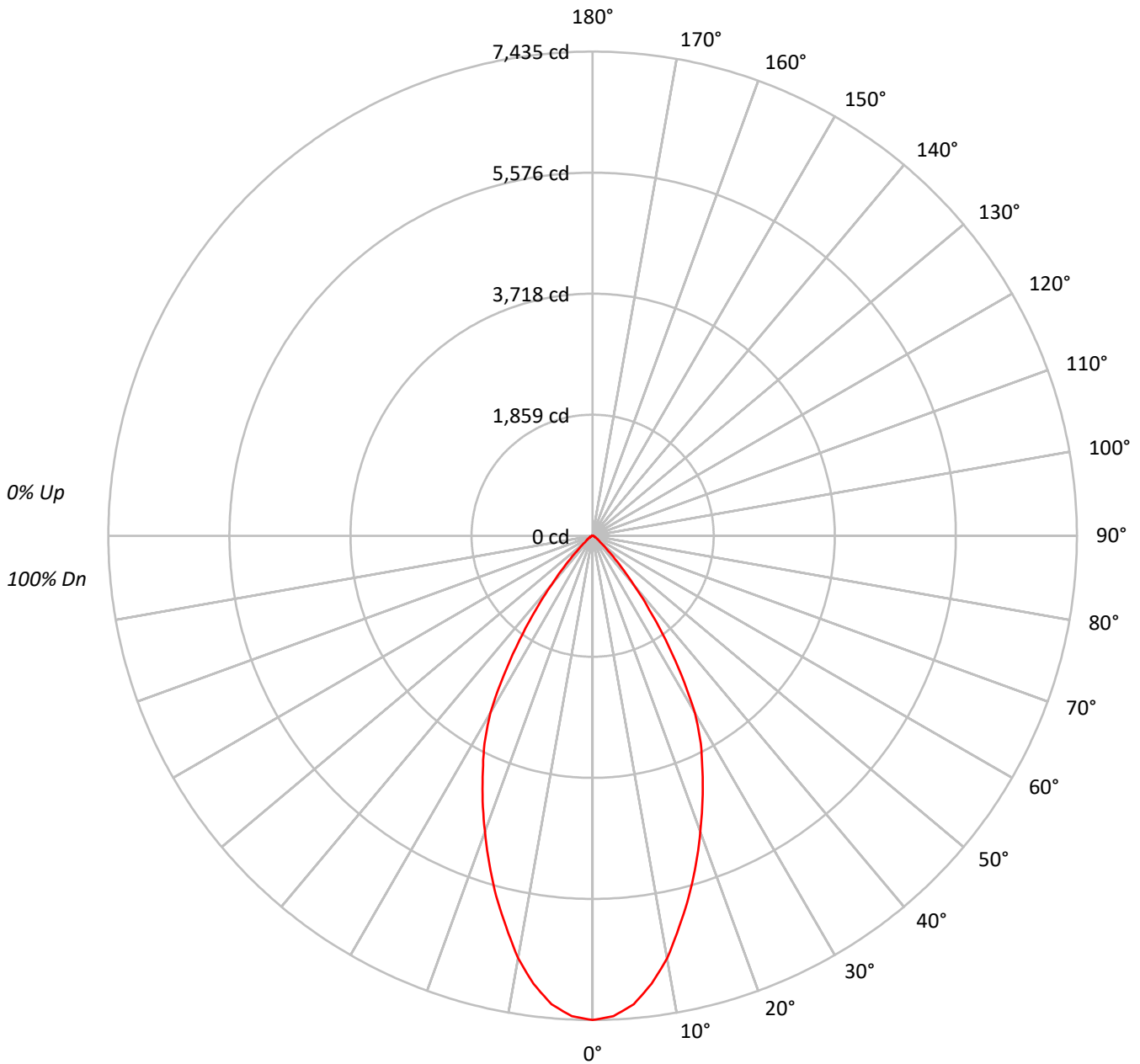
Lumens per Lamp: N/A  
Luminaire Lumens: 5800.0 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 89.5  
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				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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93				93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87				87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81				81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75				75
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70				70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65				65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61				61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58				58
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54				54
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51				51

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

	0°
0°	407588
5°	397501
10°	366782
15°	324729
20°	281955
25°	241163
30°	198828
35°	130935
40°	70389
45°	31158
50°	12639
55°	9118
60°	5789
65°	4138
70°	3414
75°	2245
80°	3346
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	668.6	11.5
10°-20°	1594.4	27.5
20°-30°	1826.6	31.5
30°-40°	1227.2	21.2
40°-50°	350.6	6.0
50°-60°	85.8	1.5
60°-70°	32.6	0.6
70°-80°	12.6	0.2
80°-90°	1.4	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°	4089.6	70.5
0°-40°	5316.9	91.7
0°-60°	5753.3	99.2
0°-90°	5800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7435	
5°	7223	669
15°	5722	1594
25°	3987	1827
35°	1956	1227
45°	402	351
55°	95	86
65°	32	33
75°	11	13
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7435.0
2.5°	7382.2
5°	7223.4
7.5°	6937.7
10°	6589.0
12.5°	6144.5
15°	5721.7
17.5°	5277.6
20°	4833.1
22.5°	4410.3
25°	3987.0
27.5°	3595.7
30°	3141.0
32.5°	2538.1
35°	1956.5
37.5°	1427.7
40°	983.6
42.5°	645.1
45°	401.9
47.5°	243.1
50°	148.2
52.5°	116.2
55°	95.4
57.5°	74.1
60°	52.8
62.5°	42.2
65°	31.9
67.5°	21.3
70°	21.3
72.5°	10.6
75°	10.6
77.5°	10.6
80°	10.6
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)