

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: P578138

Luminaire Tested: **FLD6C-55-D010 FEU6C-X-90-35 F6X-M-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P578138  
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-55-D010 FEU6C-X-90-35 F6X-M-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBMLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

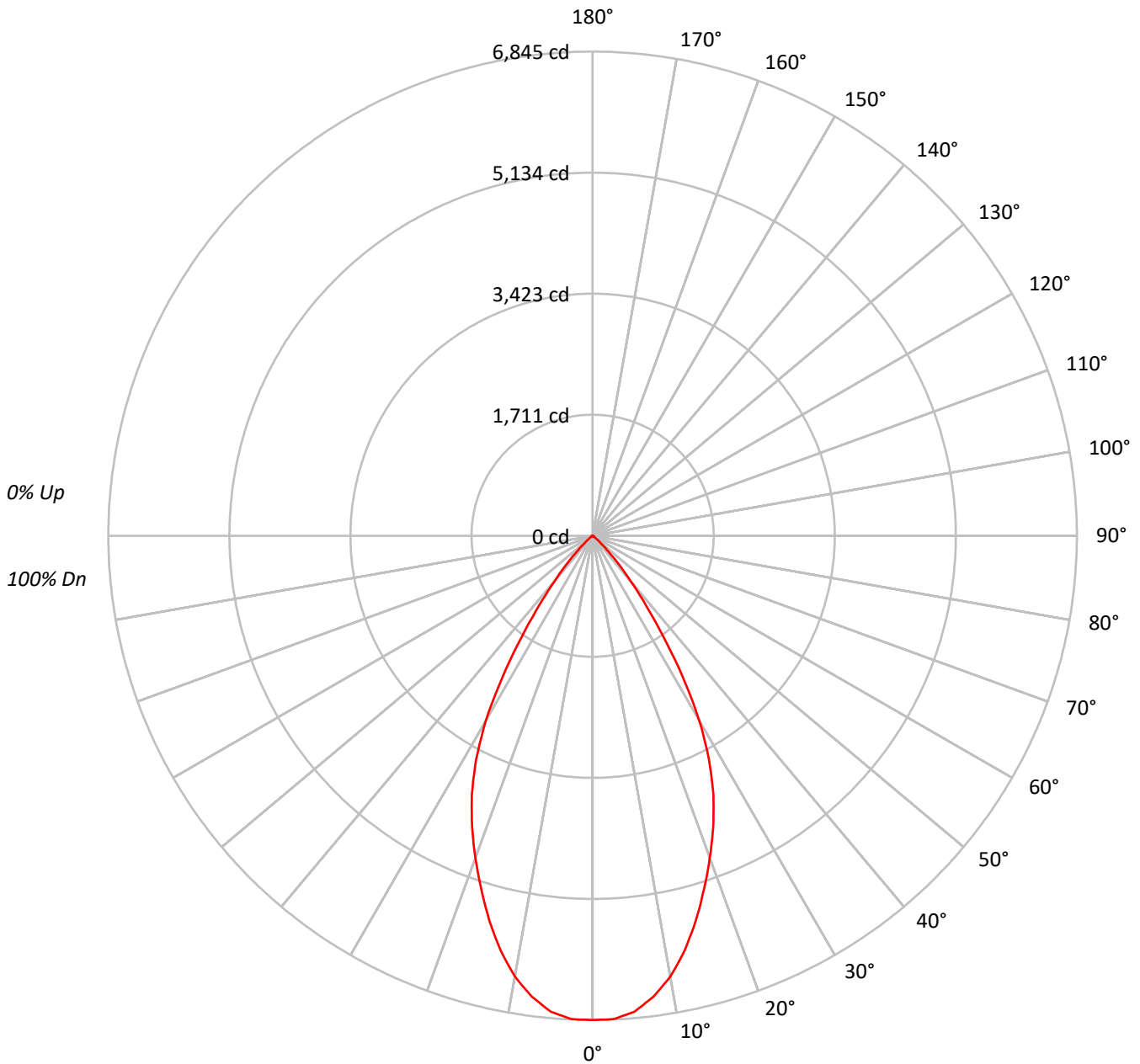
Lumens per Lamp: N/A  
Luminaire Lumens: 5470.1 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.9  
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	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°	375266
5°	371697
10°	352220
15°	319780
20°	282574
25°	244296
30°	190960
35°	117109
40°	60105
45°	23878
50°	7752
55°	2676
60°	2291
65°	1829
70°	1138
75°	1504
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.6	11.5
10°-20°	1570.0	28.7
20°-30°	1825.1	33.4
30°-40°	1117.6	20.4
40°-50°	277.5	5.1
50°-60°	32.4	0.6
60°-70°	12.1	0.2
70°-80°	4.7	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°	4025.7	73.6
0°-40°	5143.3	94.0
0°-60°	5453.3	99.7
0°-90°	5470.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5470.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6845	
5°	6754	631
15°	5634	1570
25°	4039	1825
35°	1750	1118
45°	308	278
55°	28	32
65°	14	12
75°	7	5
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6845.4
2.5°	6838.4
5°	6754.5
7.5°	6572.4
10°	6327.4
12.5°	6005.5
15°	5634.5
17.5°	5235.6
20°	4843.7
22.5°	4451.6
25°	4038.8
27.5°	3562.8
30°	3016.7
32.5°	2379.8
35°	1749.9
37.5°	1231.8
40°	839.9
42.5°	524.9
45°	308.0
47.5°	175.0
50°	90.9
52.5°	42.1
55°	28.0
57.5°	20.9
60°	20.9
62.5°	14.1
65°	14.1
67.5°	7.1
70°	7.1
72.5°	7.1
75°	7.1
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)