

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: P578908

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-27 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P578908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-70-D010 FEU6C-X-90-27 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

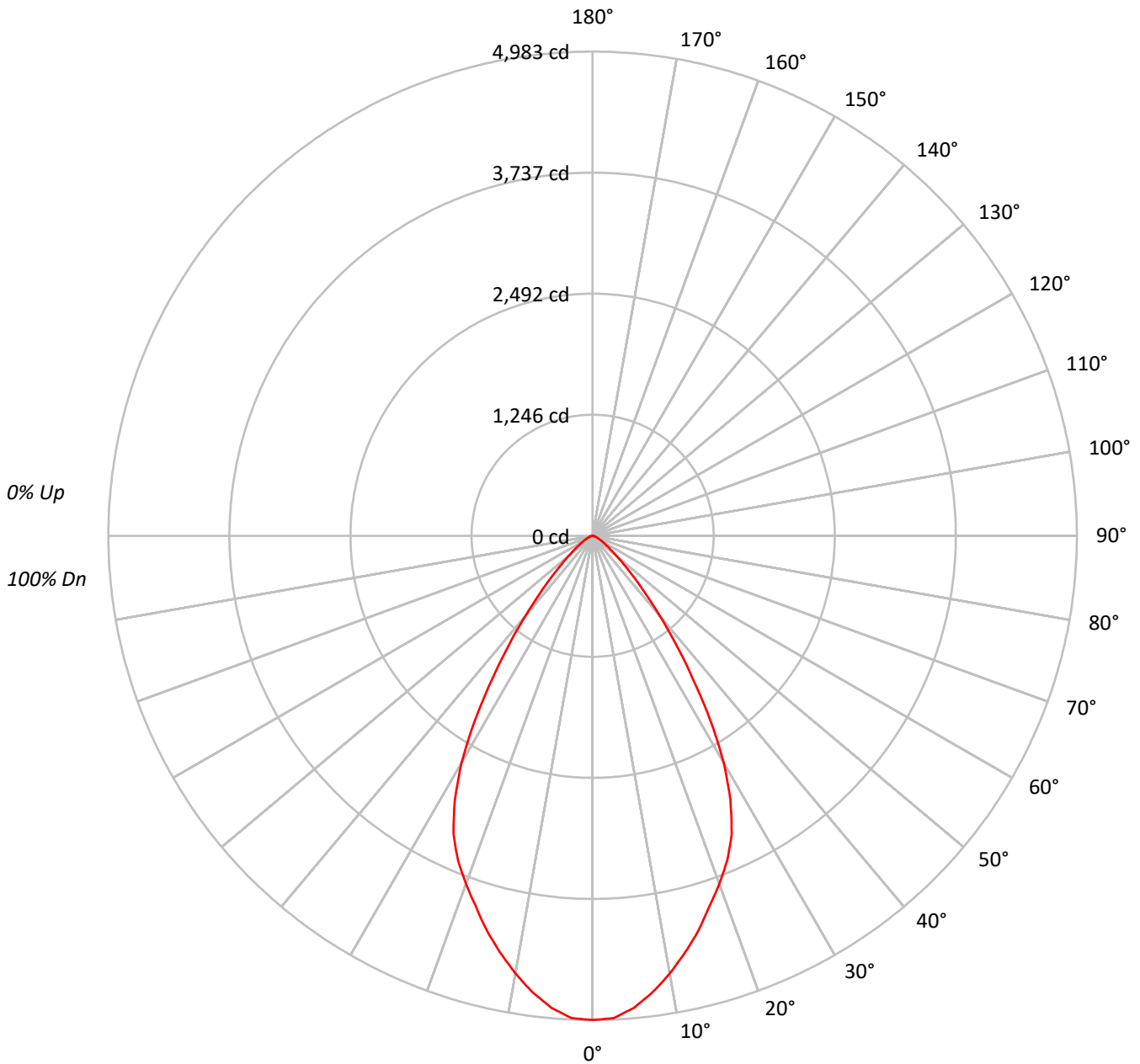
Lumens per Lamp: N/A  
Luminaire Lumens: 5035.0 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 78  
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	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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85
3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53			53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49			49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46			46

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

	0°
0°	273163
5°	268275
10°	254566
15°	238719
20°	222316
25°	204847
30°	170684
35°	120301
40°	76665
45°	45718
50°	26984
55°	17165
60°	11819
65°	8393
70°	5770
75°	4575
80°	2241
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.6	9.0
10°-20°	1178.6	23.4
20°-30°	1527.2	30.3
30°-40°	1133.8	22.5
40°-50°	478.6	9.5
50°-60°	169.9	3.4
60°-70°	65.6	1.3
70°-80°	22.7	0.5
80°-90°	2.9	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°	3161.4	62.8
0°-40°	4295.2	85.3
0°-60°	4943.8	98.2
0°-90°	5035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5035.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4983	
5°	4875	456
15°	4206	1179
25°	3387	1527
35°	1798	1134
45°	590	479
55°	180	170
65°	65	66
75°	22	23
85°	0	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4982.9
2.5°	4968.4
5°	4875.1
7.5°	4738.3
10°	4573.1
12.5°	4393.2
15°	4206.2
17.5°	3997.9
20°	3810.8
22.5°	3616.7
25°	3386.6
27.5°	3070.1
30°	2696.4
32.5°	2257.6
35°	1797.6
37.5°	1409.3
40°	1071.3
42.5°	798.0
45°	589.7
47.5°	431.4
50°	316.4
52.5°	237.3
55°	179.6
57.5°	136.5
60°	107.8
62.5°	79.2
65°	64.7
67.5°	50.2
70°	36.0
72.5°	28.7
75°	21.6
77.5°	14.5
80°	7.1
82.5°	7.1
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)