

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: P573486

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-30 F4X-M-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P573486  
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: FLD4C-45-D010 FEU4C-X-90-30 F4X-M-X-LI  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

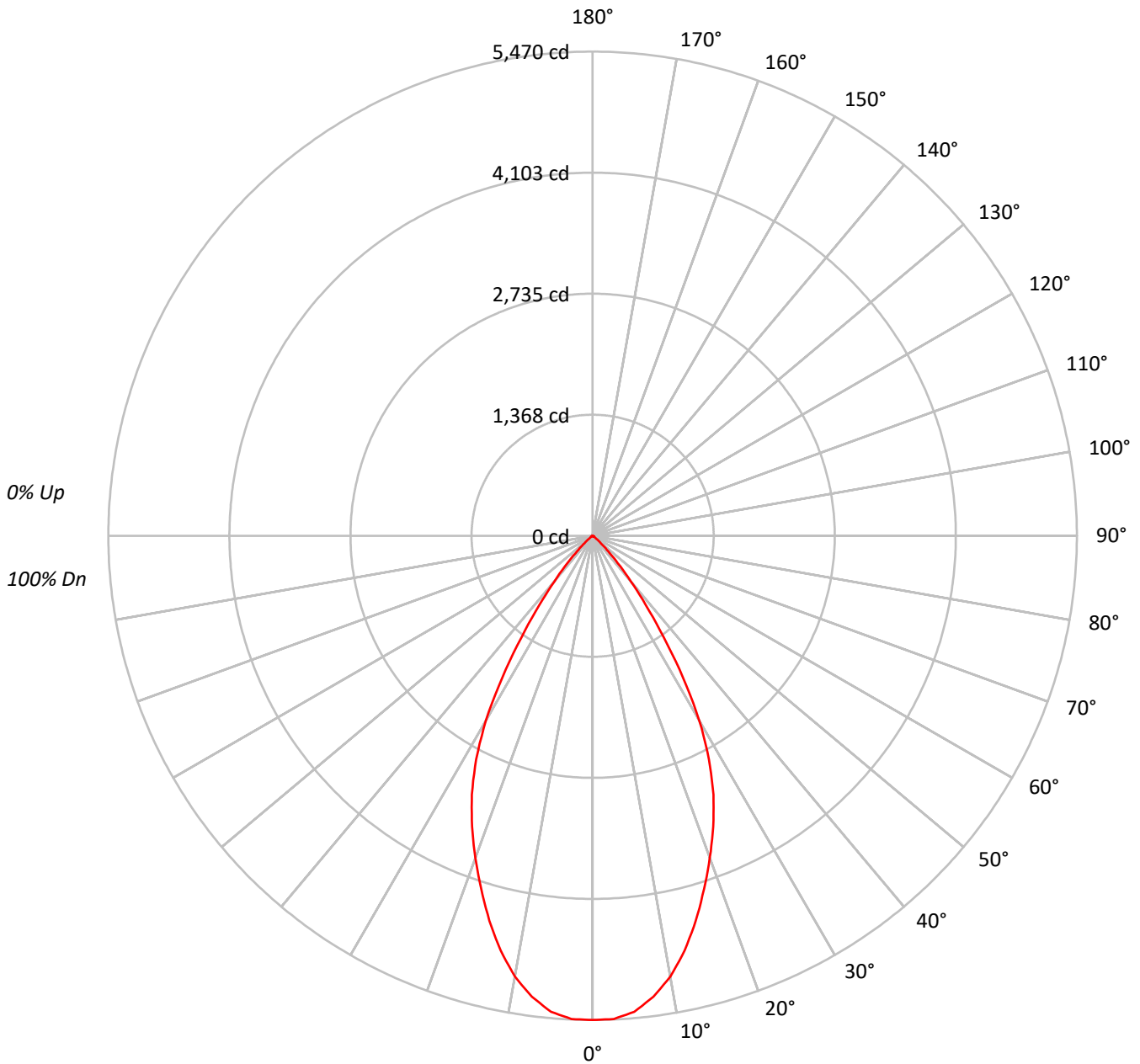
Lumens per Lamp: N/A  
Luminaire Lumens: 4371.0 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.6  
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	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°	672021
5°	665622
10°	630742
15°	572661
20°	506021
25°	437473
30°	341965
35°	209712
40°	107643
45°	42758
50°	13895
55°	4776
60°	4103
65°	3285
70°	2012
75°	2658
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.9	11.5
10°-20°	1254.6	28.7
20°-30°	1458.4	33.4
30°-40°	893.1	20.4
40°-50°	221.8	5.1
50°-60°	25.9	0.6
60°-70°	9.7	0.2
70°-80°	3.7	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°	3216.9	73.6
0°-40°	4109.9	94.0
0°-60°	4357.6	99.7
0°-90°	4371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4371.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5470	
5°	5397	504
15°	4502	1255
25°	3227	1458
35°	1398	893
45°	246	222
55°	22	26
65°	11	10
75°	6	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5470.1
2.5°	5464.5
5°	5397.4
7.5°	5251.9
10°	5056.1
12.5°	4798.9
15°	4502.5
17.5°	4183.7
20°	3870.5
22.5°	3557.2
25°	3227.3
27.5°	2846.9
30°	2410.6
32.5°	1901.7
35°	1398.3
37.5°	984.3
40°	671.2
42.5°	419.4
45°	246.1
47.5°	139.9
50°	72.7
52.5°	33.6
55°	22.3
57.5°	16.7
60°	16.7
62.5°	11.3
65°	11.3
67.5°	5.6
70°	5.6
72.5°	5.6
75°	5.6
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)