

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: P573096

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-27 F4X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P573096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD4C-35-D010 FEU4C-X-90-27 F4X-N-X-H  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

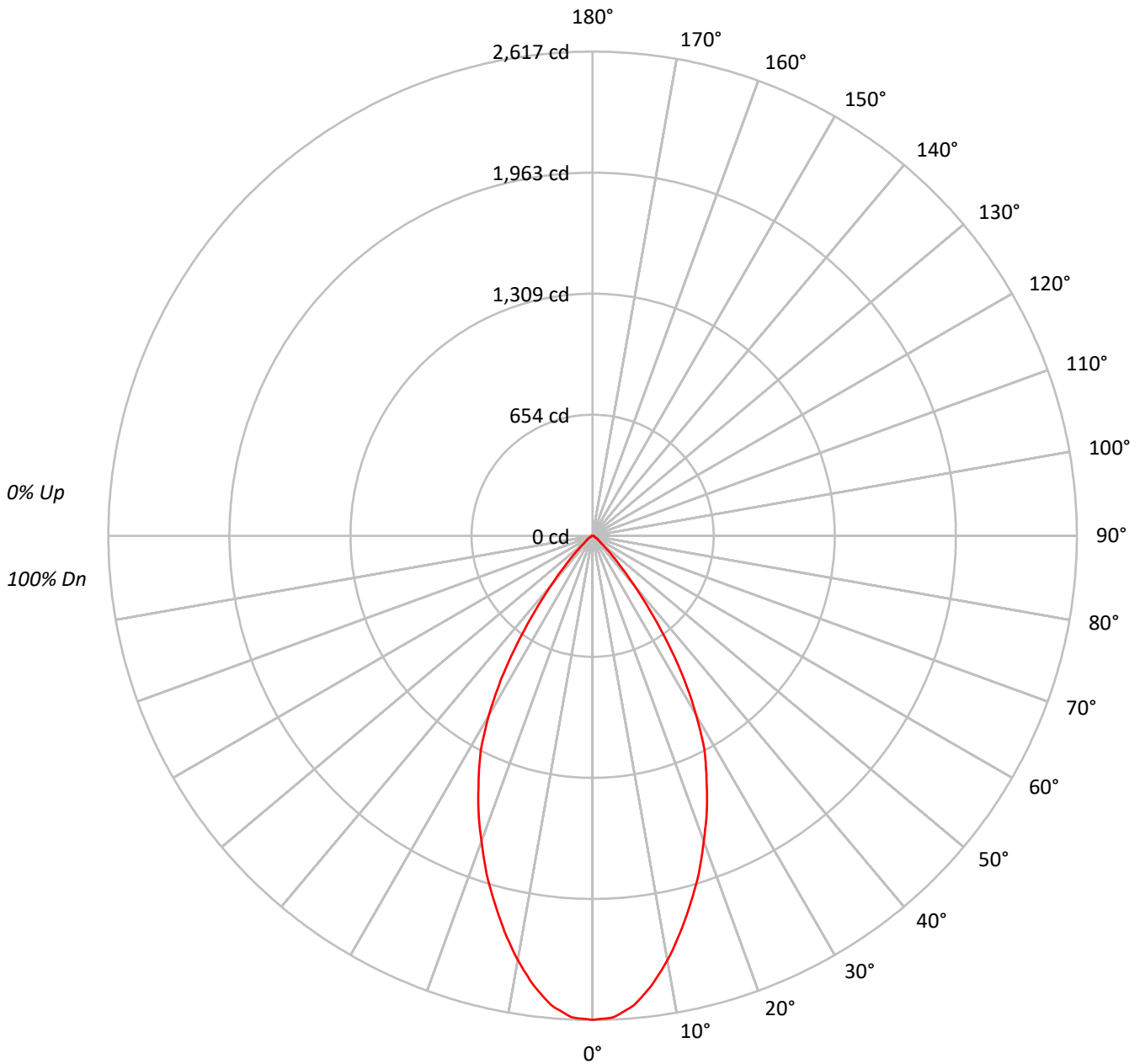
Lumens per Lamp: N/A  
Luminaire Lumens: 2084.0 lumens  
Efficiency: N/A  
Efficacy: 51.6 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.4  
Input Voltage (V): NR  
Input Current (Ain): 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			
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51			

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

	0°
0°	321458
5°	314300
10°	290602
15°	260759
20°	229537
25°	197543
30°	159081
35°	105898
40°	55088
45°	24932
50°	10818
55°	7261
60°	4644
65°	3314
70°	2730
75°	1804
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.1	11.3
10°-20°	572.6	27.5
20°-30°	664.8	31.9
30°-40°	440.3	21.1
40°-50°	123.5	5.9
50°-60°	31.0	1.5
60°-70°	11.7	0.6
70°-80°	4.0	0.2
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°	1473.6	70.7
0°-40°	1913.8	91.8
0°-60°	2068.3	99.2
0°-90°	2084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2084.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2617	
5°	2549	236
15°	2050	573
25°	1457	665
35°	706	440
45°	144	123
55°	34	31
65°	11	12
75°	4	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2616.6
2.5°	2605.2
5°	2548.6
7.5°	2450.3
10°	2329.5
12.5°	2193.5
15°	2050.2
17.5°	1910.4
20°	1755.7
22.5°	1612.2
25°	1457.3
27.5°	1310.2
30°	1121.4
32.5°	921.2
35°	706.1
37.5°	506.0
40°	343.5
42.5°	222.7
45°	143.5
47.5°	86.9
50°	56.6
52.5°	41.5
55°	33.9
57.5°	26.5
60°	18.9
62.5°	15.1
65°	11.4
67.5°	7.6
70°	7.6
72.5°	3.8
75°	3.8
77.5°	3.8
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)