

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: P573792

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

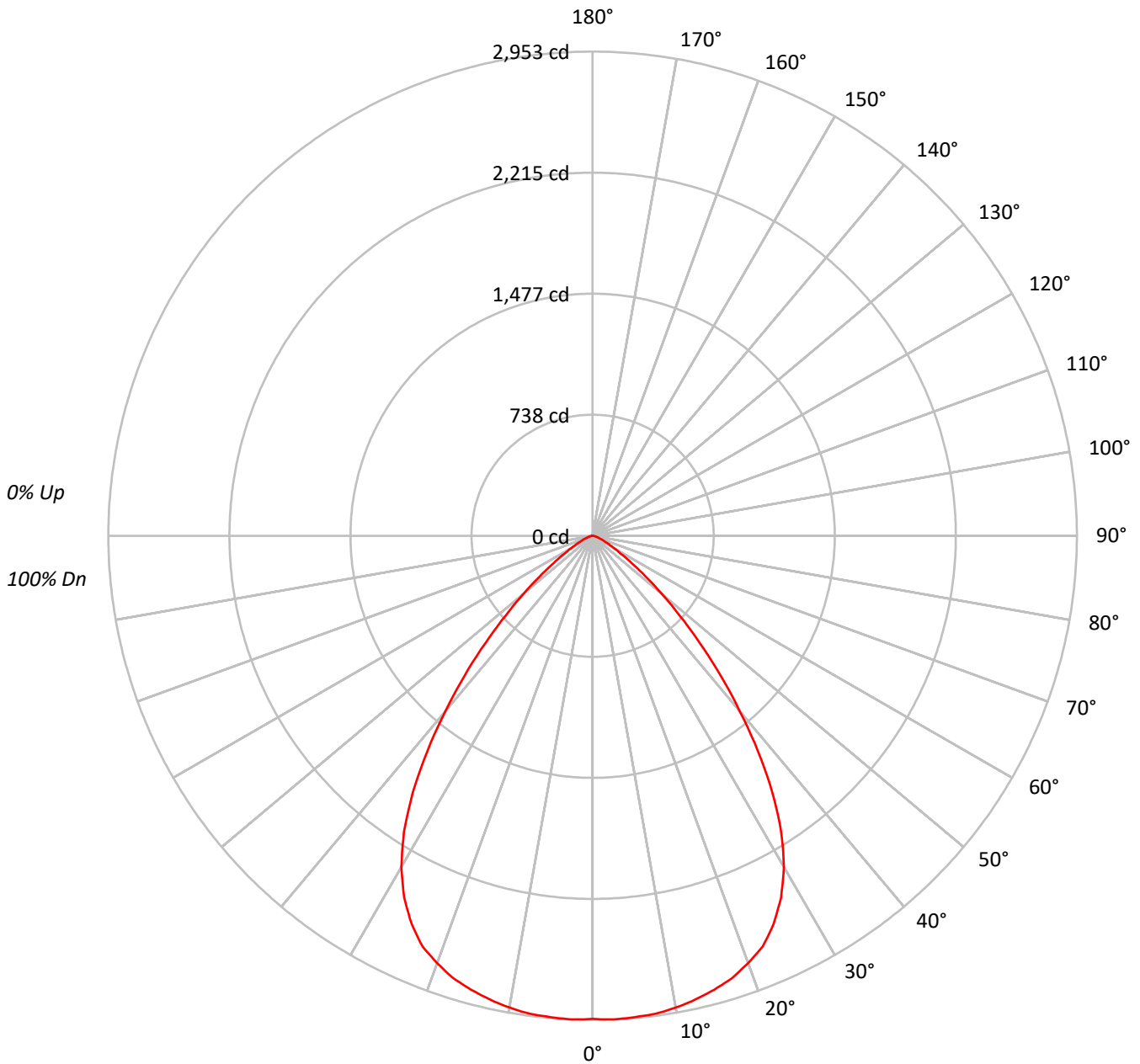
Lumens per Lamp: N/A
Luminaire Lumens: 4572.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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									
RC	80									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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91																			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82																			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74																			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61																			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55																			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50																			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43																			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	362037
5°	363420
10°	364528
15°	364544
20°	362536
25°	354053
30°	330914
35°	286560
40°	223850
45°	160606
50°	104336
55°	62457
60°	36561
65°	23459
70°	15625
75°	11772
80°	8773
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	6.1
10°-20°	808.6	17.7
20°-30°	1193.2	26.1
30°-40°	1177.5	25.8
40°-50°	720.6	15.8
50°-60°	276.3	6.0
60°-70°	86.4	1.9
70°-80°	25.3	0.6
80°-90°	3.4	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°	2282.5	49.9
0°-40°	3460.1	75.7
0°-60°	4456.9	97.5
0°-90°	4572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4572.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2947	
5°	2947	281
15°	2866	809
25°	2612	1193
35°	1911	1178
45°	924	721
55°	292	276
65°	81	86
75°	25	25
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2946.9
2.5°	2953.1
5°	2946.9
7.5°	2940.7
10°	2922.1
12.5°	2897.2
15°	2866.2
17.5°	2828.9
20°	2773.0
22.5°	2711.2
25°	2611.9
27.5°	2487.7
30°	2332.7
32.5°	2140.5
35°	1910.7
37.5°	1656.4
40°	1395.8
42.5°	1153.9
45°	924.4
47.5°	719.5
50°	545.9
52.5°	403.4
55°	291.6
57.5°	204.6
60°	148.8
62.5°	111.8
65°	80.7
67.5°	62.1
70°	43.5
72.5°	31.1
75°	24.8
77.5°	12.4
80°	12.4
82.5°	6.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)