

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: P571848

Luminaire Tested: **FLD4C-05-D010 FEU4C-X-90-27 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P571848
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-05-D010 FEU4C-X-90-27 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

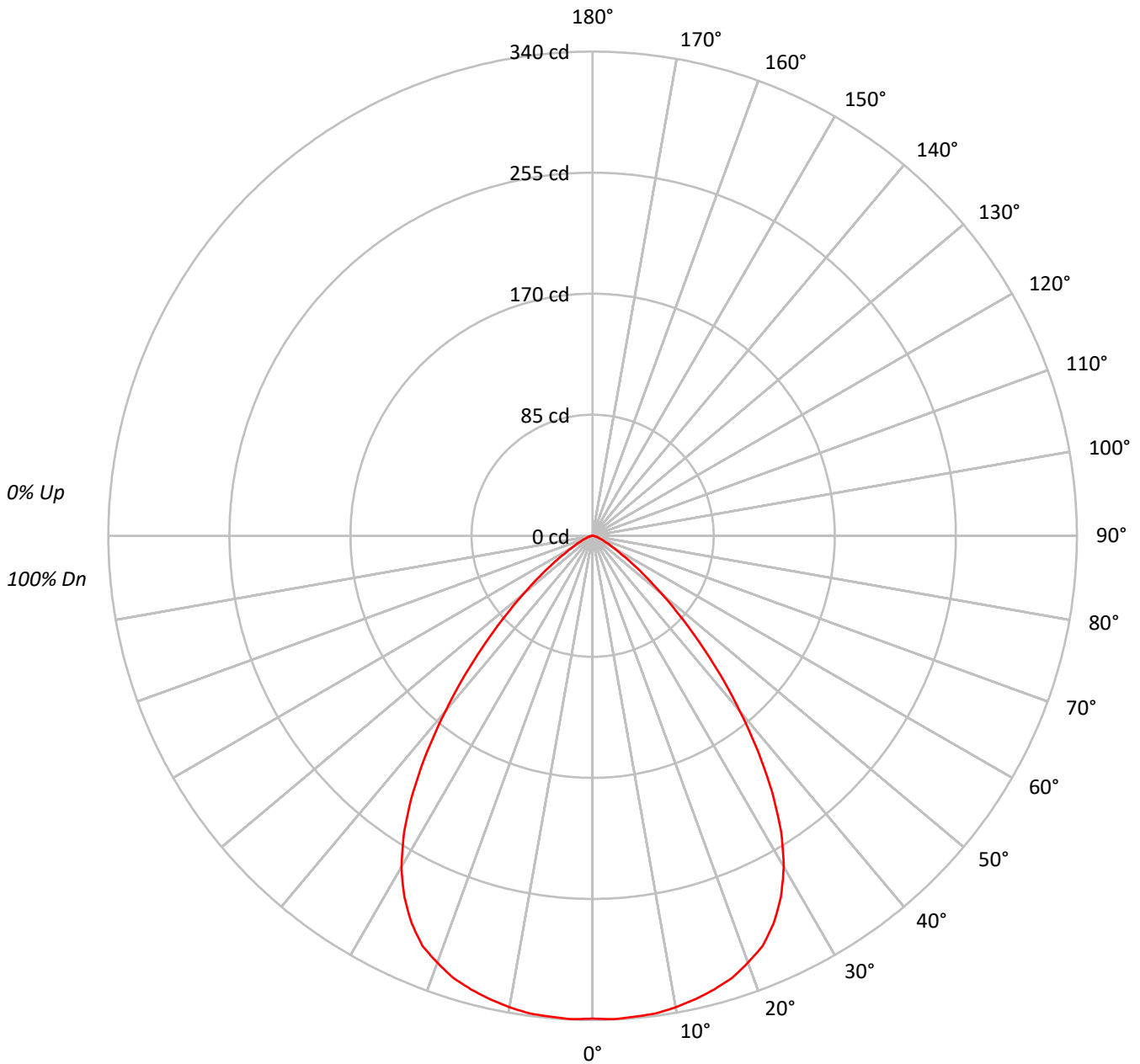
Lumens per Lamp: N/A
Luminaire Lumens: 526.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P571848

CATALOG NUMBER: FLD4C-05-D010 FEU4C-X-90-27 F4X-W-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P571848

CATALOG NUMBER: FLD4C-05-D010 FEU4C-X-90-27 F4X-W-X-H

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°	41647
5°	41806
10°	41941
15°	41946
20°	41705
25°	40734
30°	38075
35°	32965
40°	25756
45°	18486
50°	12003
55°	7175
60°	4202
65°	2703
70°	1796
75°	1377
80°	990
85°	0



TEST NUMBER: P571848

CATALOG NUMBER: FLD4C-05-D010 FEU4C-X-90-27 F4X-W-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	6.1
10°-20°	93.0	17.7
20°-30°	137.3	26.1
30°-40°	135.5	25.8
40°-50°	82.9	15.8
50°-60°	31.8	6.0
60°-70°	9.9	1.9
70°-80°	2.9	0.6
80°-90°	0.4	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°	262.6	49.9
0°-40°	398.1	75.7
0°-60°	512.8	97.5
0°-90°	526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	526.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	339	
5°	339	32
15°	330	93
25°	300	137
35°	220	135
45°	106	83
55°	34	32
65°	9	10
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P571848

CATALOG NUMBER: FLD4C-05-D010 FEU4C-X-90-27 F4X-W-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	339.0
2.5°	339.8
5°	339.0
7.5°	338.3
10°	336.2
12.5°	333.3
15°	329.8
17.5°	325.5
20°	319.0
22.5°	311.9
25°	300.5
27.5°	286.2
30°	268.4
32.5°	246.3
35°	219.8
37.5°	190.6
40°	160.6
42.5°	132.8
45°	106.4
47.5°	82.8
50°	62.8
52.5°	46.4
55°	33.5
57.5°	23.5
60°	17.1
62.5°	12.9
65°	9.3
67.5°	7.1
70°	5.0
72.5°	3.6
75°	2.9
77.5°	1.4
80°	1.4
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)