

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: P573744

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-40 F4X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573744
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-50-D010 FEU4C-X-90-40 F4X-N-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

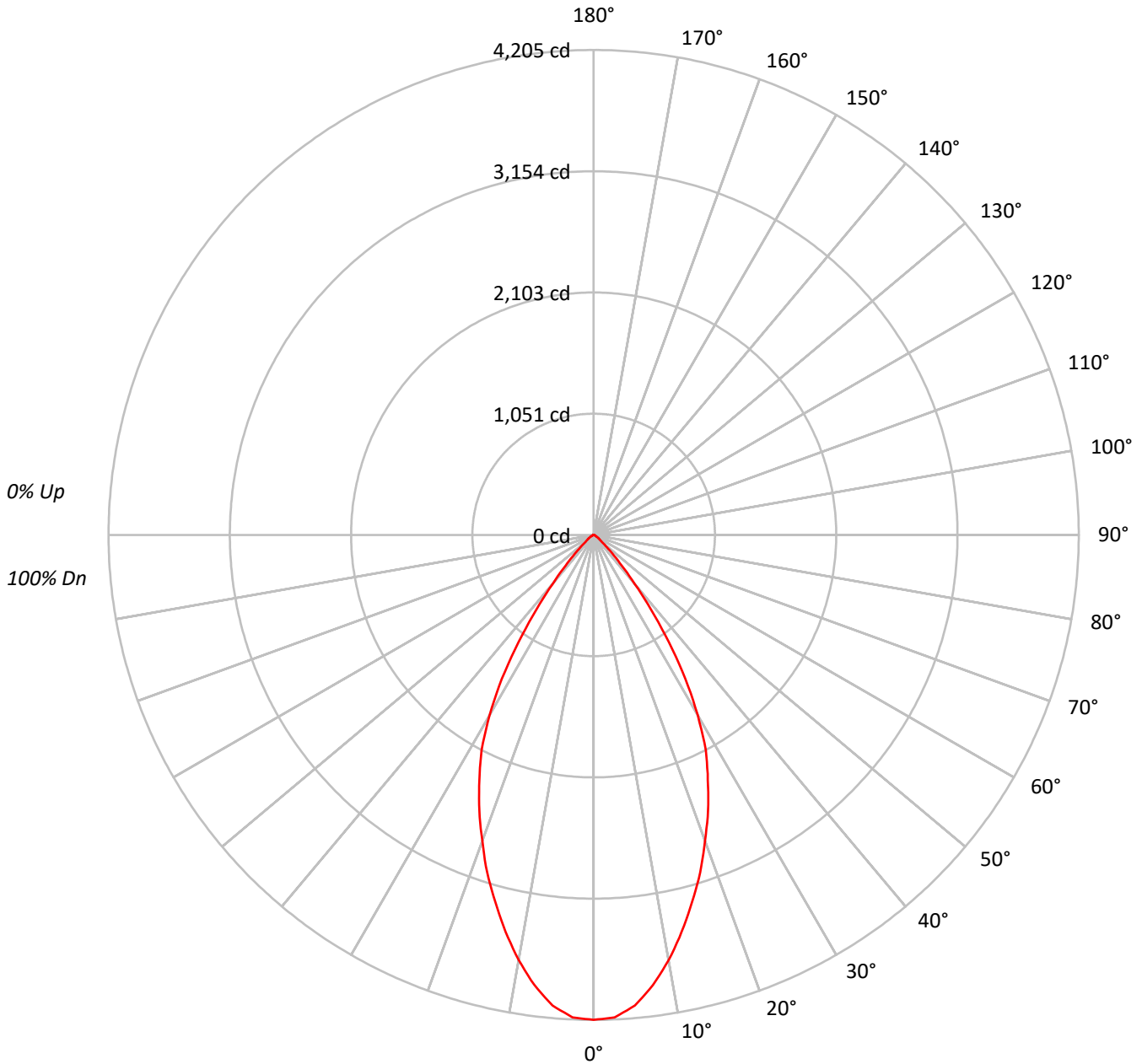
Lumens per Lamp: N/A
Luminaire Lumens: 3349.1 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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: P573744

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-40 F4X-N-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P573744

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-40 F4X-N-X-H

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°	516574
5°	505081
10°	466997
15°	419044
20°	368877
25°	317453
30°	255644
35°	170178
40°	88526
45°	40082
50°	17392
55°	11673
60°	7469
65°	5320
70°	4382
75°	2895
80°	0
85°	0



TEST NUMBER: P573744

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-40 F4X-N-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.4	11.3
10°-20°	920.2	27.5
20°-30°	1068.4	31.9
30°-40°	707.5	21.1
40°-50°	198.5	5.9
50°-60°	49.9	1.5
60°-70°	18.8	0.6
70°-80°	6.4	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°	2368.0	70.7
0°-40°	3075.5	91.8
0°-60°	3323.9	99.2
0°-90°	3349.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4205	
5°	4096	379
15°	3295	920
25°	2342	1068
35°	1135	708
45°	231	198
55°	54	50
65°	18	19
75°	6	6
85°	0	0
90°	0	



TEST NUMBER: P573744

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-40 F4X-N-X-H

CANDELA DISTRIBUTION (FULL):

0°	
0°	4204.8
2.5°	4186.6
5°	4095.6
7.5°	3937.7
10°	3743.5
12.5°	3525.0
15°	3294.7
17.5°	3070.1
20°	2821.5
22.5°	2590.8
25°	2341.9
27.5°	2105.4
30°	1802.1
32.5°	1480.4
35°	1134.7
37.5°	813.1
40°	552.0
42.5°	357.9
45°	230.7
47.5°	139.7
50°	91.0
52.5°	66.7
55°	54.5
57.5°	42.6
60°	30.4
62.5°	24.3
65°	18.3
67.5°	12.2
70°	12.2
72.5°	6.1
75°	6.1
77.5°	6.1
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)