

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: P573756

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573756
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-90-40 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

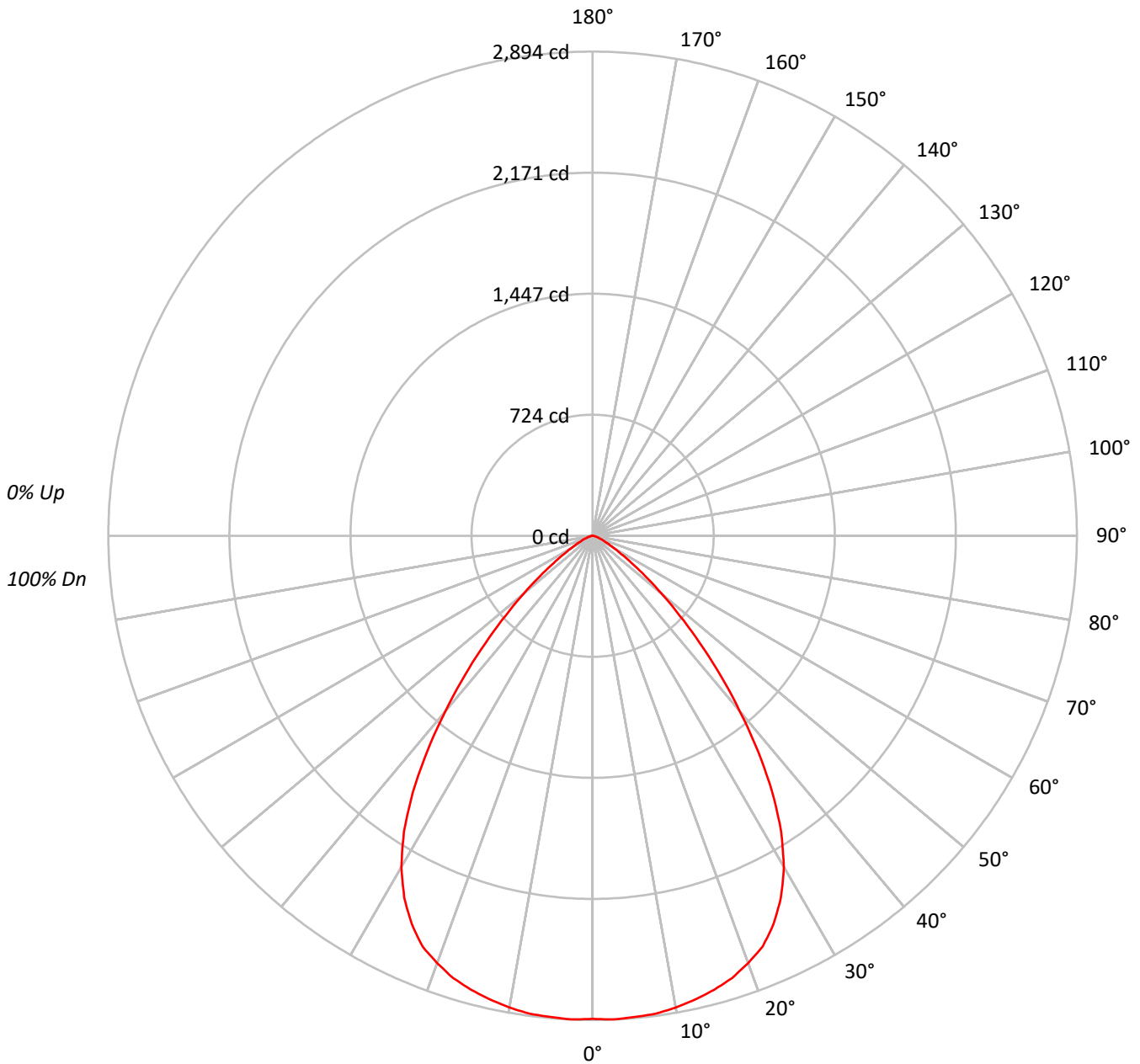
Lumens per Lamp: N/A
Luminaire Lumens: 4480.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (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: P573756

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

Luminous Intensity Polar Plot





TEST NUMBER: P573756

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-40 F4X-W-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	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°	354752
5°	356107
10°	357193
15°	357205
20°	355241
25°	346923
30°	324261
35°	280801
40°	219359
45°	157375
50°	102233
55°	61194
60°	35824
65°	22994
70°	15302
75°	11534
80°	8631
85°	0



TEST NUMBER: P573756

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.0	6.1
10°-20°	792.4	17.7
20°-30°	1169.2	26.1
30°-40°	1153.9	25.8
40°-50°	706.1	15.8
50°-60°	270.7	6.0
60°-70°	84.7	1.9
70°-80°	24.8	0.6
80°-90°	3.3	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°	2236.6	49.9
0°-40°	3390.4	75.7
0°-60°	4367.2	97.5
0°-90°	4480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4480.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2888	
5°	2888	275
15°	2808	792
25°	2559	1169
35°	1872	1154
45°	906	706
55°	286	271
65°	79	85
75°	24	25
85°	0	3
90°	0	



TEST NUMBER: P573756

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	2887.6
2.5°	2893.7
5°	2887.6
7.5°	2881.5
10°	2863.3
12.5°	2838.9
15°	2808.5
17.5°	2772.0
20°	2717.2
22.5°	2656.7
25°	2559.3
27.5°	2437.6
30°	2285.8
32.5°	2097.4
35°	1872.3
37.5°	1623.0
40°	1367.8
42.5°	1130.7
45°	905.8
47.5°	705.0
50°	534.9
52.5°	395.3
55°	285.7
57.5°	200.5
60°	145.8
62.5°	109.5
65°	79.1
67.5°	60.9
70°	42.6
72.5°	30.4
75°	24.3
77.5°	12.2
80°	12.2
82.5°	6.1
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)