

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: P574338

Luminaire Tested: **FLD6C-05-D010 FEU6C-X-90-40 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P574338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-05-D010 FEU6C-X-90-40 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

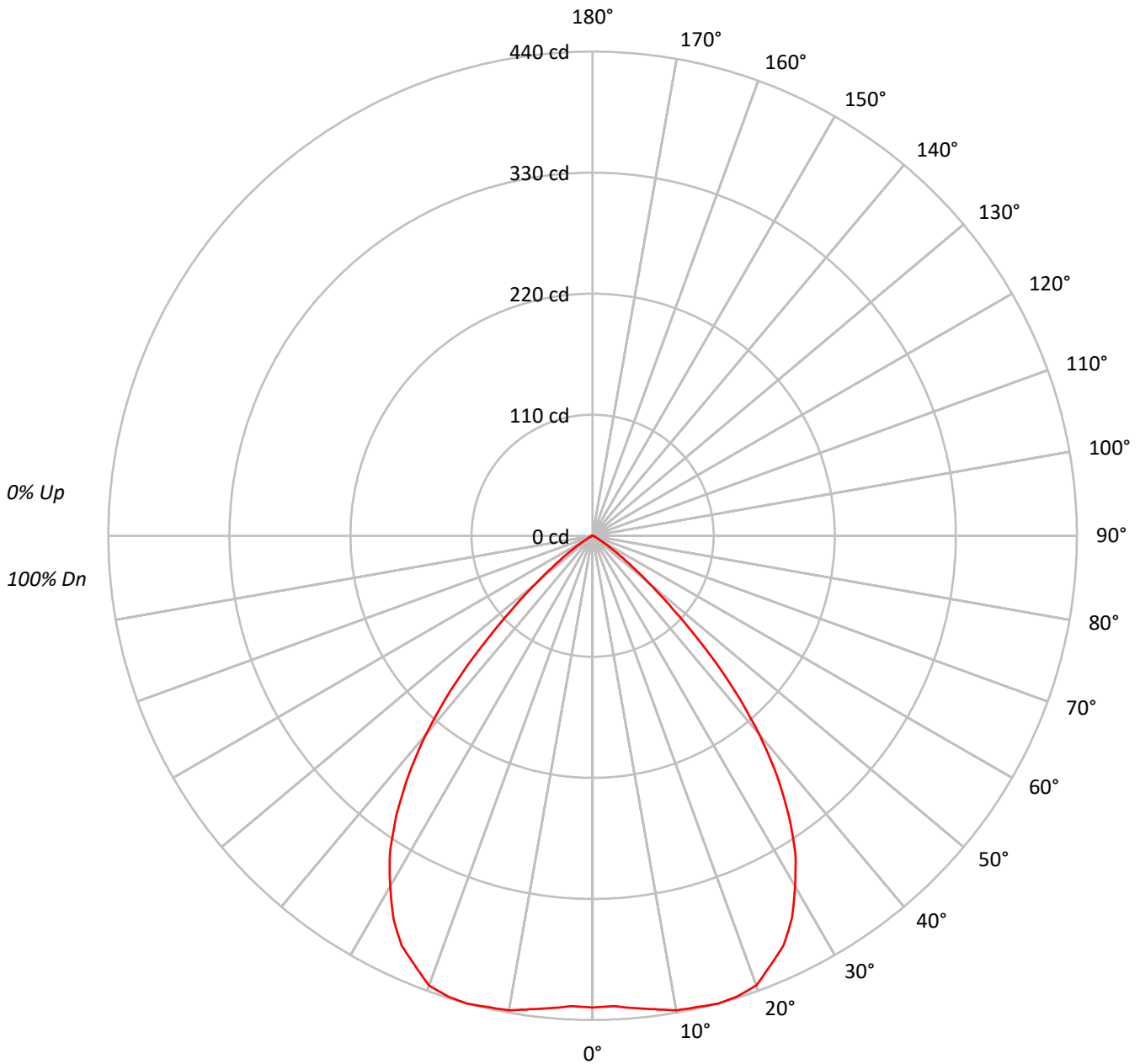
Lumens per Lamp: N/A
Luminaire Lumens: 686.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

TEST NUMBER: P574338

CATALOG NUMBER: FLD6C-05-D010 FEU6C-X-90-40 F6X-W-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P574338

CATALOG NUMBER: FLD6C-05-D010 FEU6C-X-90-40 F6X-W-X-LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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				100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92				92
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83				83
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76				76
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69				69
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63				63
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57				57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52				52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48				48
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23496
5°	23712
10°	24376
15°	24983
20°	25366
25°	24842
30°	23288
35°	20820
40°	16867
45°	11156
50°	5637
55°	2380
60°	767
65°	298
70°	256
75°	169
80°	0
85°	0



TEST NUMBER: P574338

CATALOG NUMBER: FLD6C-05-D010 FEU6C-X-90-40 F6X-W-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	6.0
10°-20°	124.3	18.1
20°-30°	187.3	27.3
30°-40°	191.7	27.9
40°-50°	111.7	16.3
50°-60°	25.7	3.7
60°-70°	3.1	0.5
70°-80°	0.8	0.1
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°	352.9	51.4
0°-40°	544.7	79.4
0°-60°	682.0	99.4
0°-90°	686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	429	
5°	431	41
15°	440	124
25°	411	187
35°	311	192
45°	144	112
55°	25	26
65°	2	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P574338

CATALOG NUMBER: FLD6C-05-D010 FEU6C-X-90-40 F6X-W-X-LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	428.6
2.5°	427.8
5°	430.9
7.5°	434.0
10°	437.9
12.5°	438.7
15°	440.2
17.5°	438.7
20°	434.8
22.5°	422.3
25°	410.7
27.5°	392.0
30°	367.9
32.5°	343.0
35°	311.1
37.5°	275.3
40°	235.7
42.5°	191.3
45°	143.9
47.5°	100.3
50°	66.1
52.5°	42.0
55°	24.9
57.5°	13.2
60°	7.0
62.5°	3.9
65°	2.3
67.5°	2.3
70°	1.6
72.5°	0.8
75°	0.8
77.5°	0.8
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)