

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: P575348

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-27 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-120-D010 FEU6C-X-90-27 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

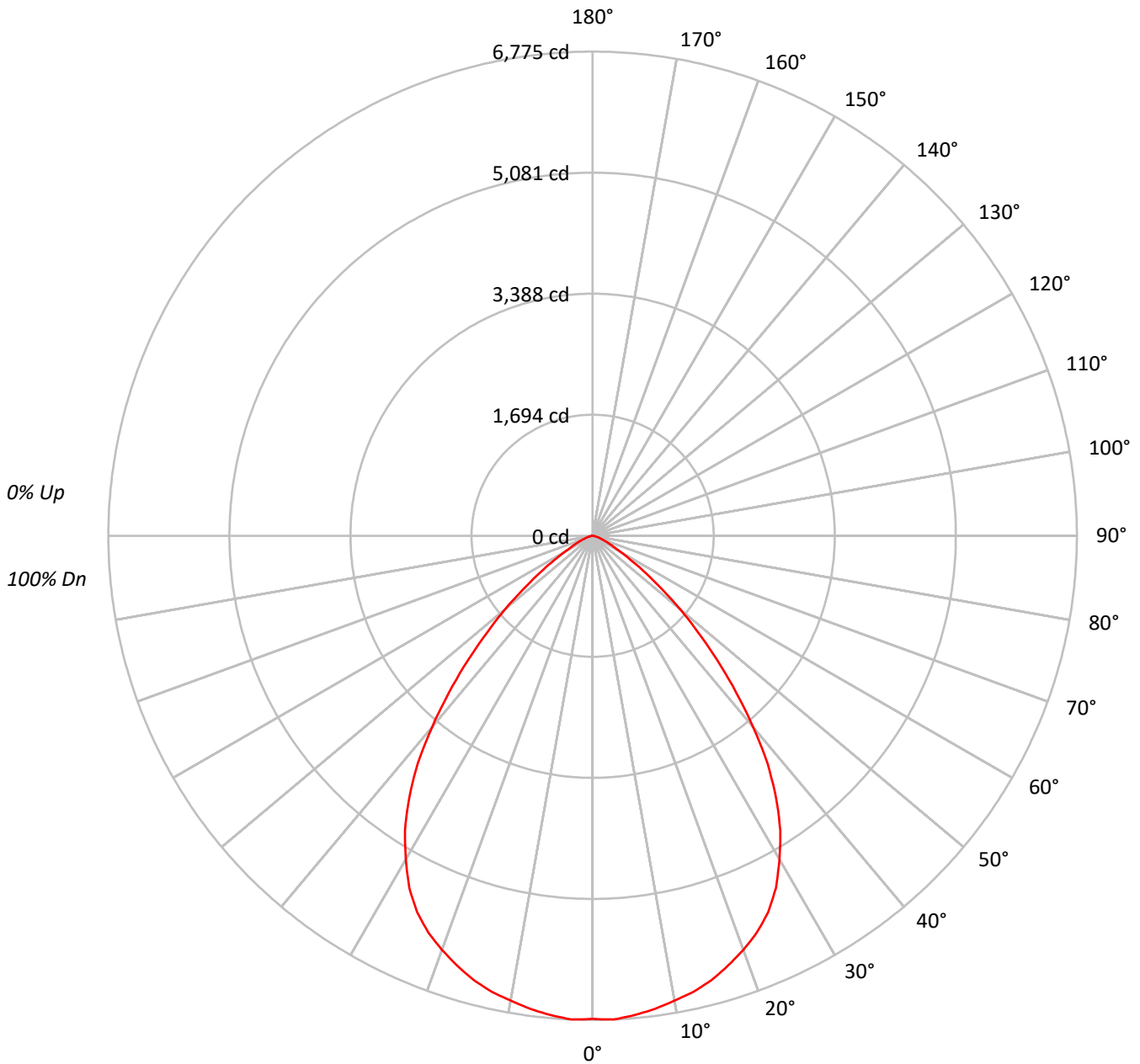
Lumens per Lamp: N/A
Luminaire Lumens: 10962.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
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: P575348

CATALOG NUMBER: FLD6C-120-D010 FEU6C-X-90-27 F6X-W-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P575348

CATALOG NUMBER: FLD6C-120-D010 FEU6C-X-90-27 F6X-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	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81																			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73																			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59																			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53																			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49																			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44																			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41																			
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	370639
5°	370509
10°	367656
15°	365195
20°	359633
25°	351413
30°	330880
35°	299447
40°	250047
45°	191594
50°	135697
55°	85550
60°	48253
65°	31326
70°	20468
75°	15038
80°	9029
85°	8995



TEST NUMBER: P575348

CATALOG NUMBER: FLD6C-120-D010 FEU6C-X-90-27 F6X-W-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	638.6	5.8
10°-20°	1812.0	16.5
20°-30°	2656.8	24.2
30°-40°	2765.0	25.2
40°-50°	1913.0	17.5
50°-60°	833.0	7.6
60°-70°	255.4	2.3
70°-80°	76.6	0.7
80°-90°	11.7	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°	5107.3	46.6
0°-40°	7872.4	71.8
0°-60°	10618.3	96.9
0°-90°	10962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10962.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6761	
5°	6733	639
15°	6435	1812
25°	5810	2657
35°	4474	2765
45°	2471	1913
55°	895	833
65°	242	255
75°	71	77
85°	14	12
90°	0	



TEST NUMBER: P575348

CATALOG NUMBER: FLD6C-120-D010 FEU6C-X-90-27 F6X-W-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	6761.0
2.5°	6775.3
5°	6732.9
7.5°	6676.2
10°	6604.7
12.5°	6533.7
15°	6434.7
17.5°	6306.5
20°	6164.6
22.5°	6008.3
25°	5809.7
27.5°	5553.9
30°	5227.1
32.5°	4886.0
35°	4474.5
37.5°	4020.0
40°	3494.1
42.5°	2968.7
45°	2471.3
47.5°	2002.6
50°	1591.1
52.5°	1207.6
55°	895.1
57.5°	639.3
60°	440.1
62.5°	326.8
65°	241.5
67.5°	184.8
70°	127.7
72.5°	99.6
75°	71.0
77.5°	42.4
80°	28.6
82.5°	14.3
85°	14.3
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)