

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: P575478

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-35 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575478
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-120-D010 FEU6C-X-90-35 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

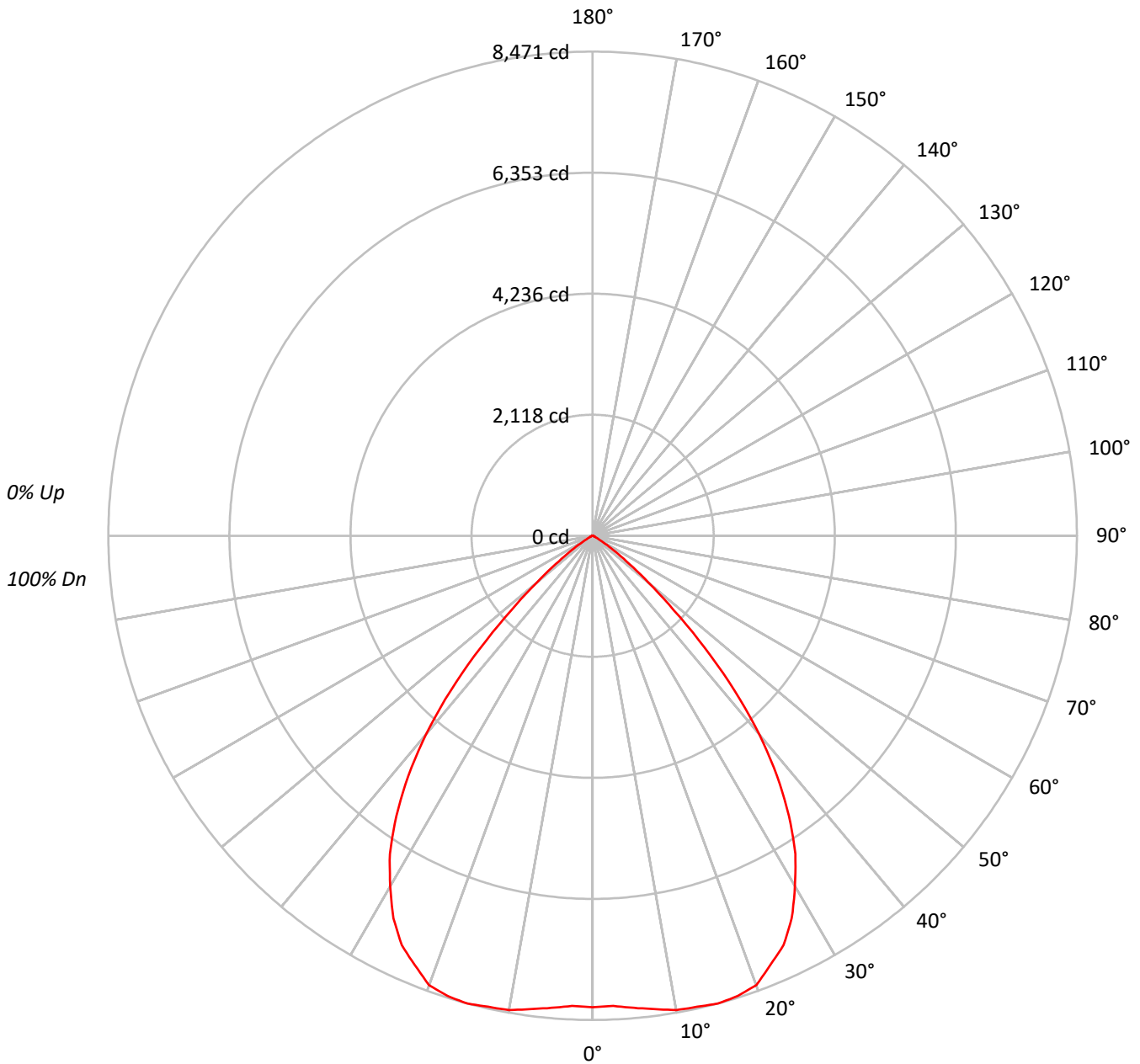
Lumens per Lamp: N/A
Luminaire Lumens: 13201.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P575478

CATALOG NUMBER: FLD6C-120-D010 FEU6C-X-90-35 F6X-W-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P575478

CATALOG NUMBER: FLD6C-120-D010 FEU6C-X-90-35 F6X-W-X-LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	452102
5°	456289
10°	469052
15°	480786
20°	488088
25°	478007
30°	448145
35°	400675
40°	324537
45°	214681
50°	108508
55°	45781
60°	14758
65°	5798
70°	4825
75°	3198
80°	0
85°	0



TEST NUMBER: P575478

CATALOG NUMBER: FLD6C-120-D010 FEU6C-X-90-35 F6X-W-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.6	6.0
10°-20°	2391.3	18.1
20°-30°	3604.7	27.3
30°-40°	3689.6	27.9
40°-50°	2149.4	16.3
50°-60°	493.9	3.7
60°-70°	60.6	0.5
70°-80°	15.9	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°	6791.6	51.4
0°-40°	10481.2	79.4
0°-60°	13124.5	99.4
0°-90°	13201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13201.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8247	
5°	8292	796
15°	8471	2391
25°	7903	3605
35°	5987	3690
45°	2769	2149
55°	479	494
65°	45	61
75°	15	16
85°	0	0
90°	0	



TEST NUMBER: P575478

CATALOG NUMBER: FLD6C-120-D010 FEU6C-X-90-35 F6X-W-X-LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	8247.0
2.5°	8231.9
5°	8291.7
7.5°	8351.4
10°	8426.2
12.5°	8441.3
15°	8471.4
17.5°	8441.3
20°	8366.5
22.5°	8127.0
25°	7902.6
27.5°	7543.6
30°	7079.6
32.5°	6600.6
35°	5987.1
37.5°	5298.1
40°	4535.0
42.5°	3681.9
45°	2769.1
47.5°	1930.6
50°	1272.3
52.5°	808.4
55°	479.0
57.5°	254.6
60°	134.6
62.5°	74.8
65°	44.7
67.5°	44.7
70°	30.1
72.5°	15.1
75°	15.1
77.5°	15.1
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)