

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: P579078

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-35 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579078
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-70-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

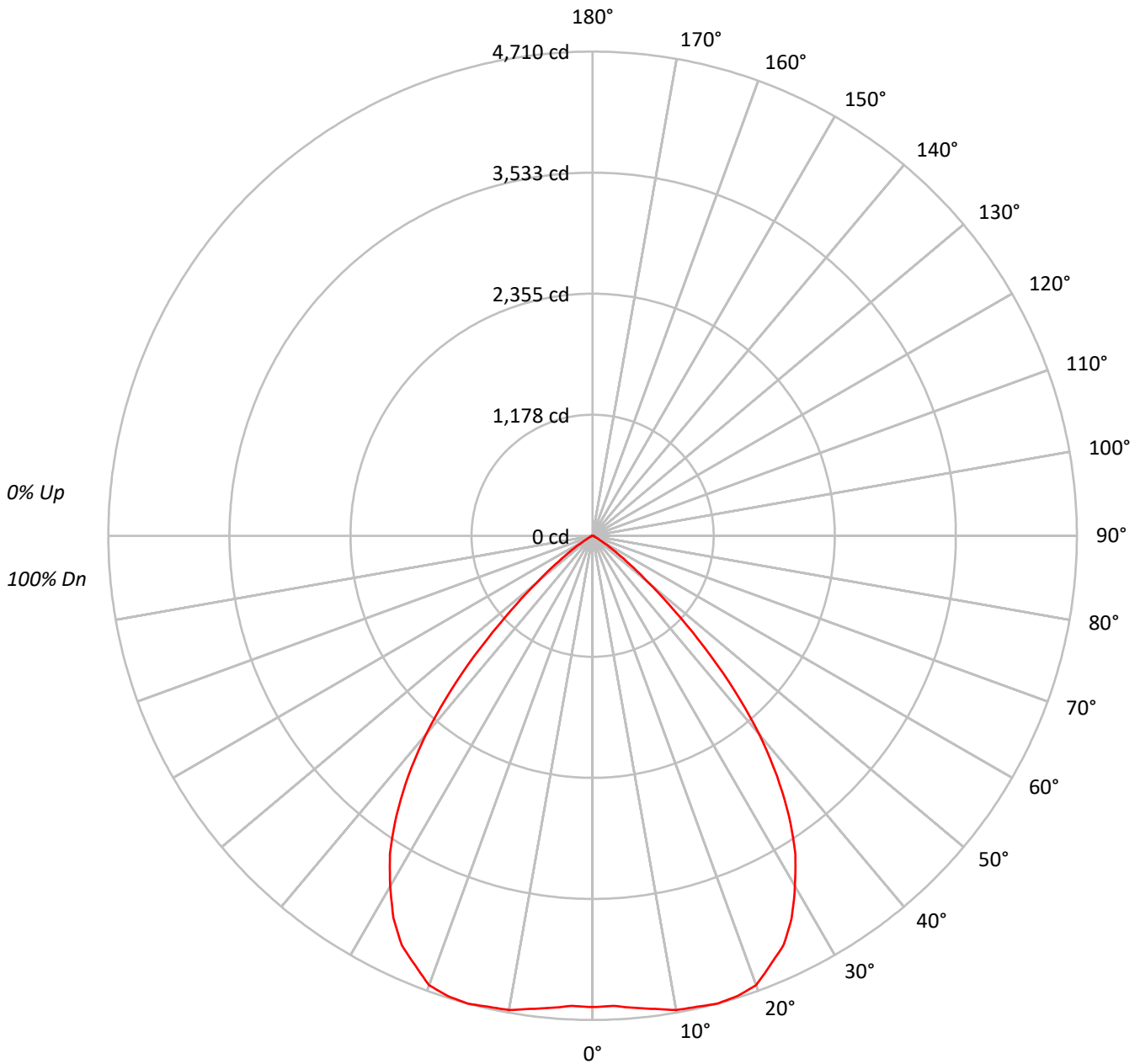
Lumens per Lamp: N/A
Luminaire Lumens: 7339.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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: P579078

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-35 F6X-W-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P579078

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-35 F6X-W-X-LI

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			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°	251345
5°	253670
10°	260767
15°	267289
20°	271349
25°	265745
30°	249146
35°	222753
40°	180424
45°	119353
50°	60322
55°	25452
60°	8201
65°	3217
70°	2693
75°	1779
80°	0
85°	0



TEST NUMBER: P579078

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-35 F6X-W-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.3	6.0
10°-20°	1329.4	18.1
20°-30°	2004.0	27.3
30°-40°	2051.2	27.9
40°-50°	1195.0	16.3
50°-60°	274.6	3.7
60°-70°	33.7	0.5
70°-80°	8.8	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°	3775.7	51.4
0°-40°	5826.9	79.4
0°-60°	7296.5	99.4
0°-90°	7339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7339.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4585	
5°	4610	442
15°	4710	1329
25°	4393	2004
35°	3328	2051
45°	1540	1195
55°	266	275
65°	25	34
75°	8	9
85°	0	0
90°	0	



TEST NUMBER: P579078

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-35 F6X-W-X-LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	4584.9
2.5°	4576.5
5°	4609.7
7.5°	4642.9
10°	4684.5
12.5°	4692.9
15°	4709.6
17.5°	4692.9
20°	4651.3
22.5°	4518.1
25°	4393.4
27.5°	4193.8
30°	3935.9
32.5°	3669.6
35°	3328.5
37.5°	2945.5
40°	2521.2
42.5°	2046.9
45°	1539.5
47.5°	1073.3
50°	707.3
52.5°	449.4
55°	266.3
57.5°	141.5
60°	74.8
62.5°	41.6
65°	24.8
67.5°	24.8
70°	16.8
72.5°	8.4
75°	8.4
77.5°	8.4
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)