

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: P578918

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-27 F6X-M-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)
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-90-27 F6X-M-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBMLI TRIM

Light Source: -
Ballast/Driver: -

Summary

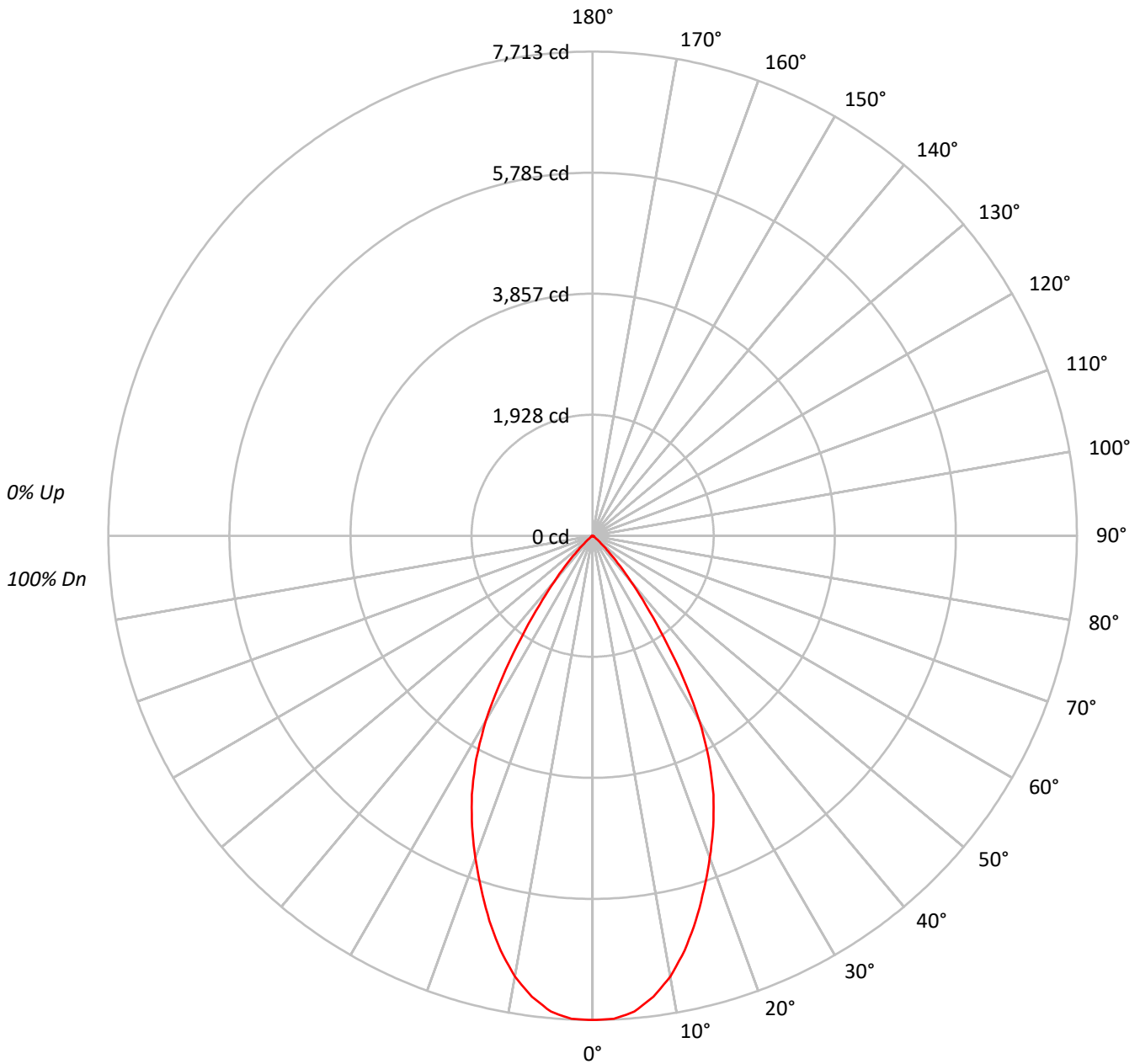
Lumens per Lamp: N/A
Luminaire Lumens: 6163.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P578918

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-27 F6X-M-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P578918

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-27 F6X-M-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			
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82			
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76			
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	422812
5°	418792
10°	396842
15°	360297
20°	318370
25°	275242
30°	215153
35°	131946
40°	67727
45°	26902
50°	8733
55°	3011
60°	2588
65°	2062
70°	1266
75°	1673
80°	0
85°	0



TEST NUMBER: P578918

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-27 F6X-M-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.5	11.5
10°-20°	1768.9	28.7
20°-30°	2056.3	33.4
30°-40°	1259.2	20.4
40°-50°	312.7	5.1
50°-60°	36.5	0.6
60°-70°	13.7	0.2
70°-80°	5.2	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°	4535.7	73.6
0°-40°	5794.9	94.0
0°-60°	6144.1	99.7
0°-90°	6163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6163.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7713	
5°	7610	711
15°	6348	1769
25°	4550	2056
35°	1972	1259
45°	347	313
55°	32	37
65°	16	14
75°	8	5
85°	0	0
90°	0	



TEST NUMBER: P578918

CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-27 F6X-M-X-LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	7712.7
2.5°	7704.7
5°	7610.3
7.5°	7405.1
10°	7129.0
12.5°	6766.3
15°	6348.4
17.5°	5898.9
20°	5457.3
22.5°	5015.5
25°	4550.4
27.5°	4014.1
30°	3398.9
32.5°	2681.3
35°	1971.6
37.5°	1387.9
40°	946.4
42.5°	591.4
45°	347.0
47.5°	197.2
50°	102.4
52.5°	47.4
55°	31.5
57.5°	23.6
60°	23.6
62.5°	15.9
65°	15.9
67.5°	7.9
70°	7.9
72.5°	7.9
75°	7.9
77.5°	0.0
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)