

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: P579198

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-50 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579198
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-90-50 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

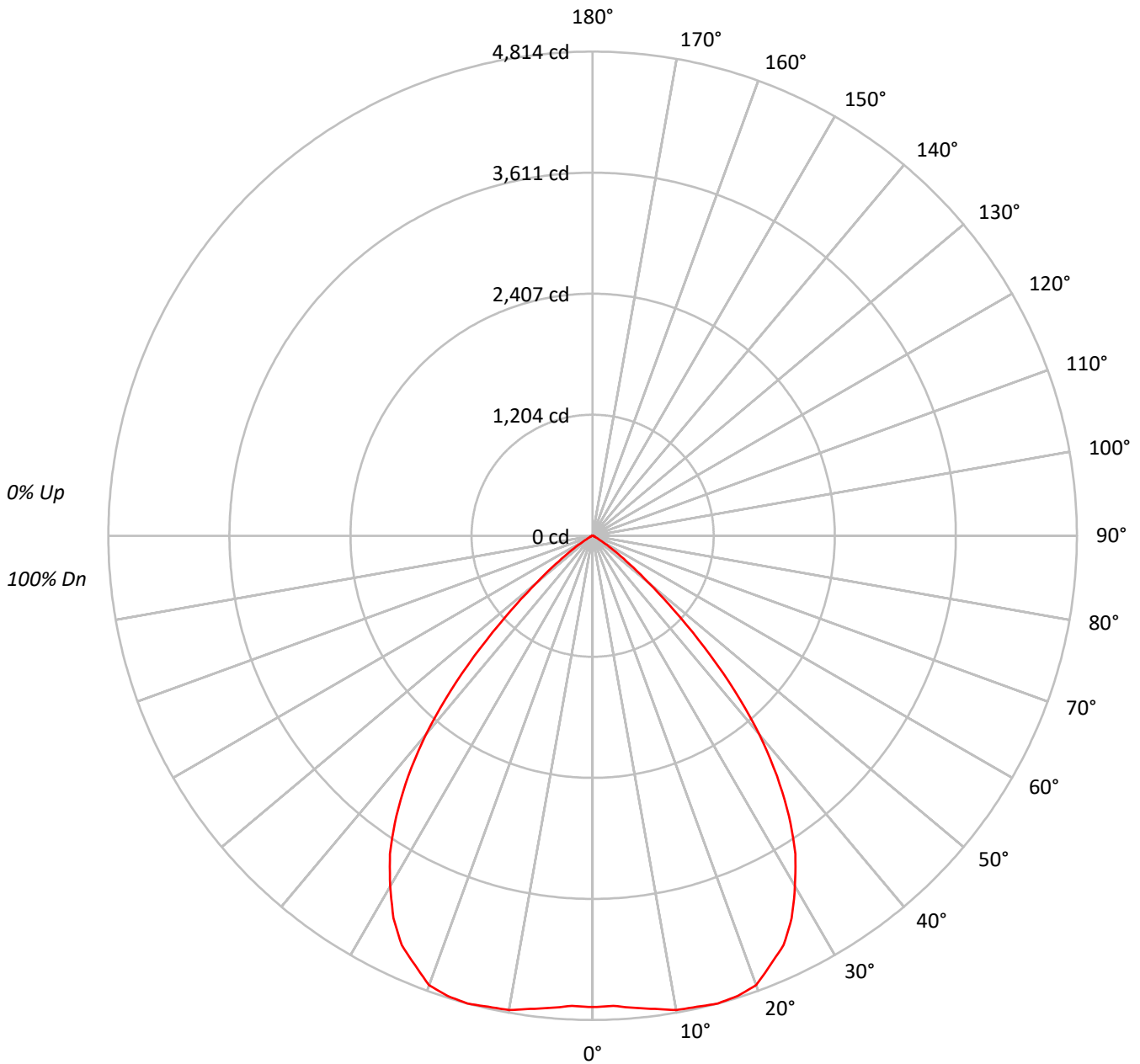
Lumens per Lamp: N/A
Luminaire Lumens: 7501.1 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): 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

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CATALOG NUMBER: FLD6C-70-D010 FEU6C-X-90-50 F6X-W-X-LI

Luminous Intensity Polar Plot





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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°	256893
5°	259272
10°	266523
15°	273191
20°	277341
25°	271606
30°	254640
35°	227666
40°	184403
45°	121982
50°	61661
55°	26016
60°	8387
65°	3295
70°	2741
75°	1822
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.1	6.0
10°-20°	1358.8	18.1
20°-30°	2048.3	27.3
30°-40°	2096.5	27.9
40°-50°	1221.3	16.3
50°-60°	280.7	3.7
60°-70°	34.4	0.5
70°-80°	9.0	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°	3859.1	51.4
0°-40°	5955.5	79.4
0°-60°	7457.6	99.4
0°-90°	7501.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7501.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4686	
5°	4712	452
15°	4814	1359
25°	4490	2048
35°	3402	2096
45°	1573	1221
55°	272	281
65°	25	34
75°	9	9
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4686.1
2.5°	4677.5
5°	4711.5
7.5°	4745.4
10°	4787.9
12.5°	4796.5
15°	4813.6
17.5°	4796.5
20°	4754.0
22.5°	4617.9
25°	4490.3
27.5°	4286.4
30°	4022.7
32.5°	3750.6
35°	3401.9
37.5°	3010.5
40°	2576.8
42.5°	2092.1
45°	1573.4
47.5°	1097.0
50°	723.0
52.5°	459.3
55°	272.2
57.5°	144.7
60°	76.5
62.5°	42.5
65°	25.4
67.5°	25.4
70°	17.1
72.5°	8.6
75°	8.6
77.5°	8.6
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)