

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: P575548

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-50 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)
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-90-50 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

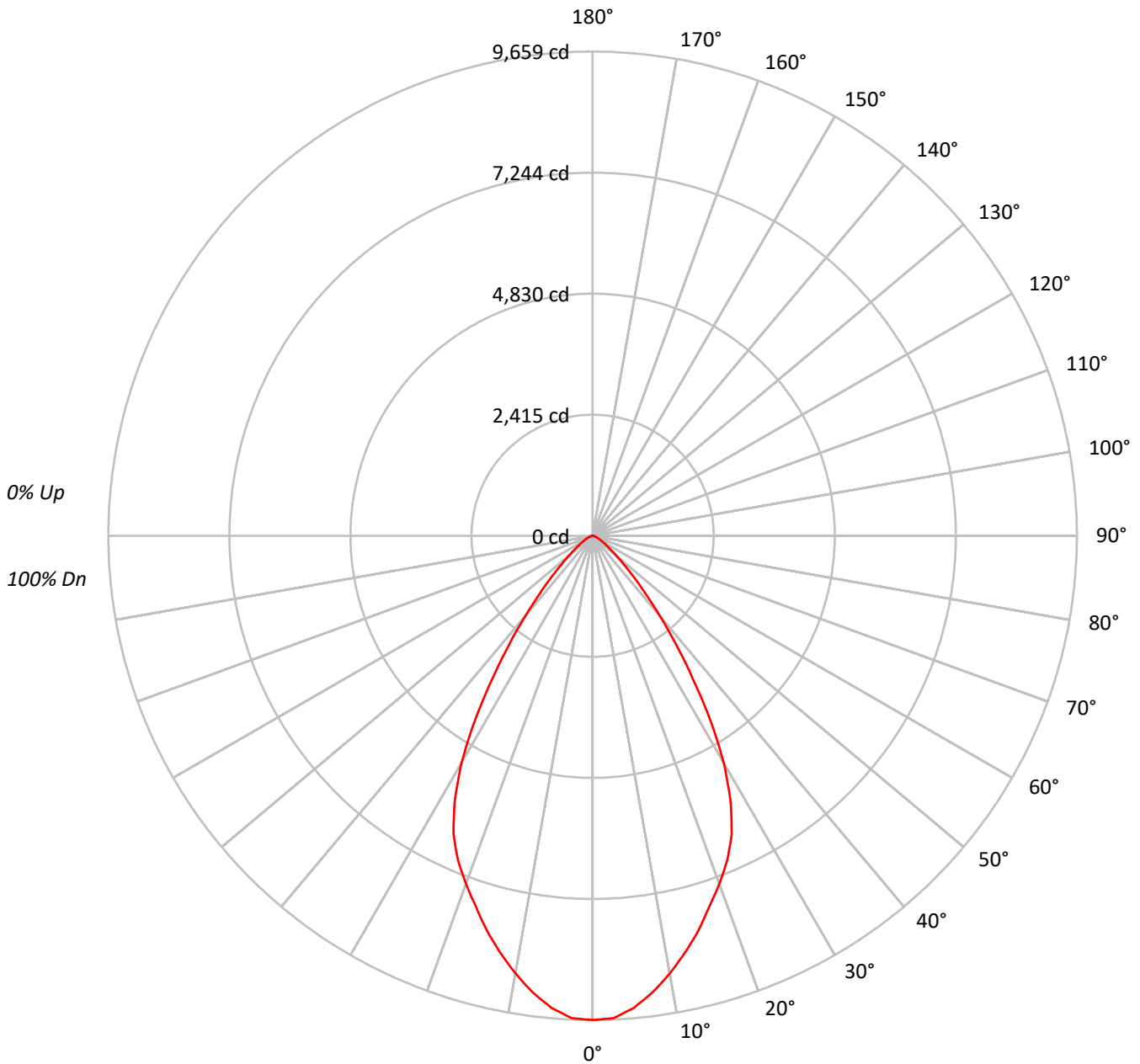
Lumens per Lamp: N/A
Luminaire Lumens: 9760.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72																			
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53																			
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49																			
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	529508
5°	520029
10°	493461
15°	462738
20°	430946
25°	397075
30°	330855
35°	233193
40°	148614
45°	88629
50°	52314
55°	33280
60°	22915
65°	16266
70°	11204
75°	8854
80°	4357
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	883.2	9.0
10°-20°	2284.7	23.4
20°-30°	2960.3	30.3
30°-40°	2197.8	22.5
40°-50°	927.8	9.5
50°-60°	329.4	3.4
60°-70°	127.2	1.3
70°-80°	44.0	0.5
80°-90°	5.6	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°	6128.2	62.8
0°-40°	8326.0	85.3
0°-60°	9583.2	98.2
0°-90°	9760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9760.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9659	
5°	9450	883
15°	8153	2285
25°	6565	2960
35°	3484	2198
45°	1143	928
55°	348	329
65°	125	127
75°	42	44
85°	0	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9659.0
2.5°	9631.0
5°	9450.0
7.5°	9184.8
10°	8864.7
12.5°	8515.9
15°	8153.4
17.5°	7749.6
20°	7387.0
22.5°	7010.7
25°	6564.6
27.5°	5951.2
30°	5226.7
32.5°	4376.2
35°	3484.5
37.5°	2731.9
40°	2076.7
42.5°	1546.9
45°	1143.2
47.5°	836.2
50°	613.4
52.5°	459.9
55°	348.2
57.5°	264.6
60°	209.0
62.5°	153.5
65°	125.4
67.5°	97.4
70°	69.9
72.5°	55.6
75°	41.8
77.5°	28.1
80°	13.8
82.5°	13.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)