

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: P575328

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-27 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)
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-90-27 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

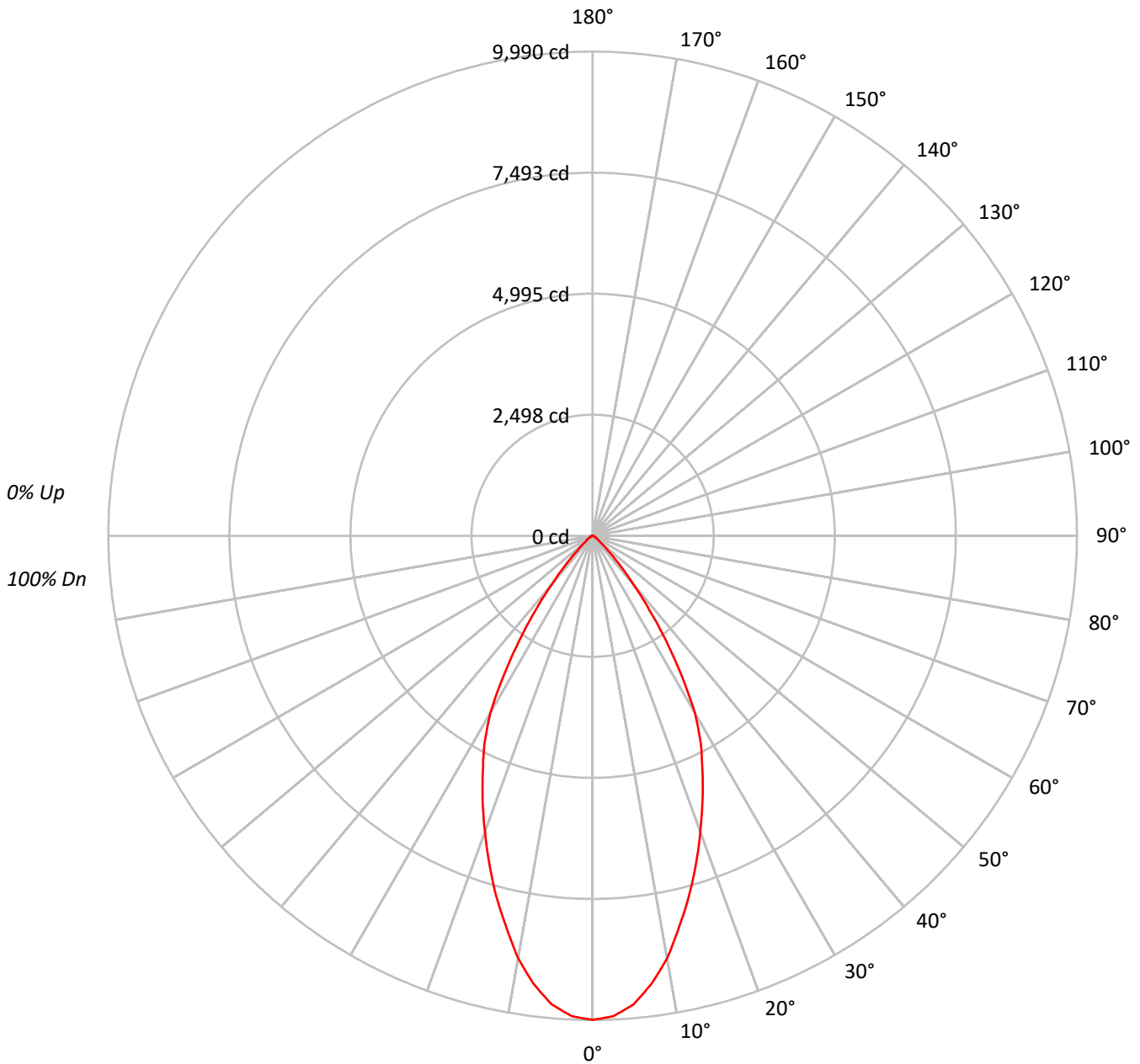
Lumens per Lamp: N/A
Luminaire Lumens: 7793.0 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
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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Luminous Intensity Polar Plot





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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93		
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87		
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81		
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75		
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70		
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65		
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61		
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58		
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54		
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	547643
5°	534090
10°	492815
15°	436314
20°	378838
25°	324037
30°	267149
35°	175927
40°	94570
45°	41865
50°	16980
55°	12243
60°	7784
65°	5565
70°	4584
75°	3029
80°	4514
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	898.3	11.5
10°-20°	2142.3	27.5
20°-30°	2454.2	31.5
30°-40°	1648.9	21.2
40°-50°	471.1	6.0
50°-60°	115.3	1.5
60°-70°	43.9	0.6
70°-80°	17.0	0.2
80°-90°	1.9	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°	5494.9	70.5
0°-40°	7143.8	91.7
0°-60°	7730.2	99.2
0°-90°	7793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7793.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9990	
5°	9706	898
15°	7688	2142
25°	5357	2454
35°	2629	1649
45°	540	471
55°	128	115
65°	43	44
75°	14	17
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9989.8
2.5°	9918.9
5°	9705.5
7.5°	9321.7
10°	8853.1
12.5°	8255.9
15°	7687.8
17.5°	7091.0
20°	6493.8
22.5°	5925.7
25°	5357.1
27.5°	4831.3
30°	4220.3
32.5°	3410.3
35°	2628.8
37.5°	1918.2
40°	1321.5
42.5°	866.7
45°	540.0
47.5°	326.7
50°	199.1
52.5°	156.2
55°	128.1
57.5°	99.5
60°	71.0
62.5°	56.7
65°	42.9
67.5°	28.6
70°	28.6
72.5°	14.3
75°	14.3
77.5°	14.3
80°	14.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)