

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: P579758

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-50 F6X-M-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579758
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-80-D010 FEU6C-X-90-50 F6X-M-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBMLI TRIM

Light Source: -
Ballast/Driver: -

Summary

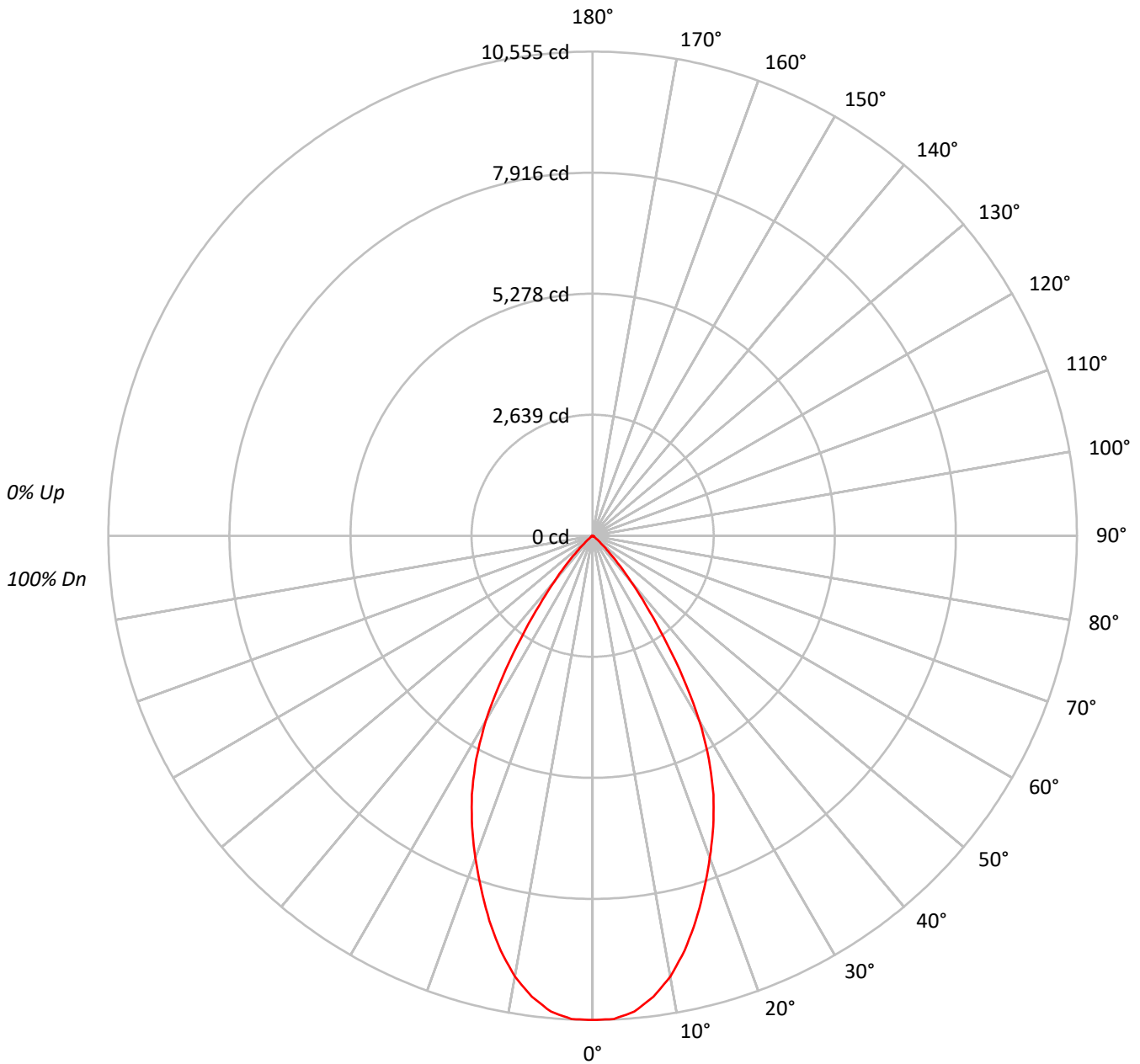
Lumens per Lamp: N/A
Luminaire Lumens: 8434.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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	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°	578610
5°	573111
10°	543076
15°	493062
20°	435689
25°	376667
30°	294438
35°	180565
40°	92681
45°	36818
50°	11957
55°	4119
60°	3530
65°	2815
70°	1747
75°	2309
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	972.3	11.5
10°-20°	2420.8	28.7
20°-30°	2814.0	33.4
30°-40°	1723.2	20.4
40°-50°	427.9	5.1
50°-60°	50.0	0.6
60°-70°	18.7	0.2
70°-80°	7.1	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°	6207.1	73.6
0°-40°	7930.3	94.0
0°-60°	8408.2	99.7
0°-90°	8434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8434.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10555	
5°	10415	972
15°	8688	2421
25°	6227	2814
35°	2698	1723
45°	475	428
55°	43	50
65°	22	19
75°	11	7
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	10554.7
2.5°	10543.9
5°	10414.6
7.5°	10133.8
10°	9756.0
12.5°	9259.7
15°	8687.7
17.5°	8072.6
20°	7468.3
22.5°	6863.7
25°	6227.2
27.5°	5493.3
30°	4651.4
32.5°	3669.3
35°	2698.1
37.5°	1899.3
40°	1295.1
42.5°	809.3
45°	474.9
47.5°	269.9
50°	140.2
52.5°	64.9
55°	43.1
57.5°	32.2
60°	32.2
62.5°	21.7
65°	21.7
67.5°	10.9
70°	10.9
72.5°	10.9
75°	10.9
77.5°	0.0
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)