

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: P579168

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-50 F6X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P579168  
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-70-D010 FEU6C-X-90-50 F6X-N-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

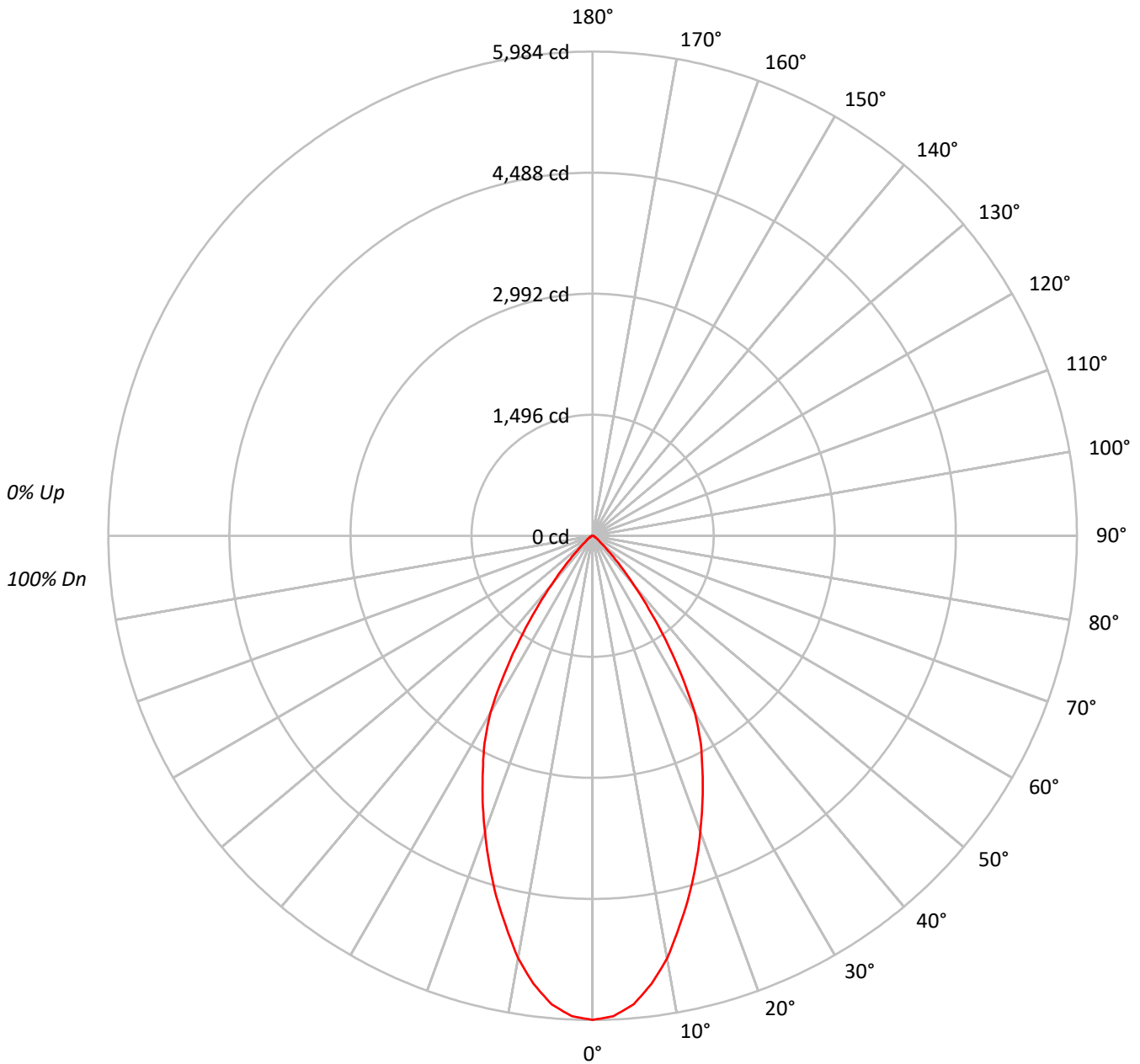
Lumens per Lamp: N/A  
Luminaire Lumens: 4668.0 lumens  
Efficiency: N/A  
Efficacy: 59.8 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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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	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°	328038
5°	319920
10°	295196
15°	261352
20°	226925
25°	194098
30°	160025
35°	105377
40°	56649
45°	25080
50°	10166
55°	7331
60°	4660
65°	3334
70°	2741
75°	1822
80°	2715
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.1	11.5
10°-20°	1283.2	27.5
20°-30°	1470.1	31.5
30°-40°	987.7	21.2
40°-50°	282.2	6.0
50°-60°	69.1	1.5
60°-70°	26.2	0.6
70°-80°	10.2	0.2
80°-90°	1.2	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°	3291.4	70.5
0°-40°	4279.1	91.7
0°-60°	4630.4	99.2
0°-90°	4668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4668.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5984	
5°	5814	538
15°	4605	1283
25°	3209	1470
35°	1575	988
45°	324	282
55°	77	69
65°	26	26
75°	9	10
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5983.9
2.5°	5941.4
5°	5813.6
7.5°	5583.7
10°	5303.0
12.5°	4945.3
15°	4605.0
17.5°	4247.5
20°	3889.8
22.5°	3549.5
25°	3208.9
27.5°	2894.0
30°	2528.0
32.5°	2042.7
35°	1574.6
37.5°	1149.0
40°	791.6
42.5°	519.2
45°	323.5
47.5°	195.7
50°	119.2
52.5°	93.6
55°	76.7
57.5°	59.6
60°	42.5
62.5°	33.9
65°	25.7
67.5°	17.1
70°	17.1
72.5°	8.6
75°	8.6
77.5°	8.6
80°	8.6
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)