

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: P576088

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-40 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P576088  
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-20-D010 FEU6C-X-90-40 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

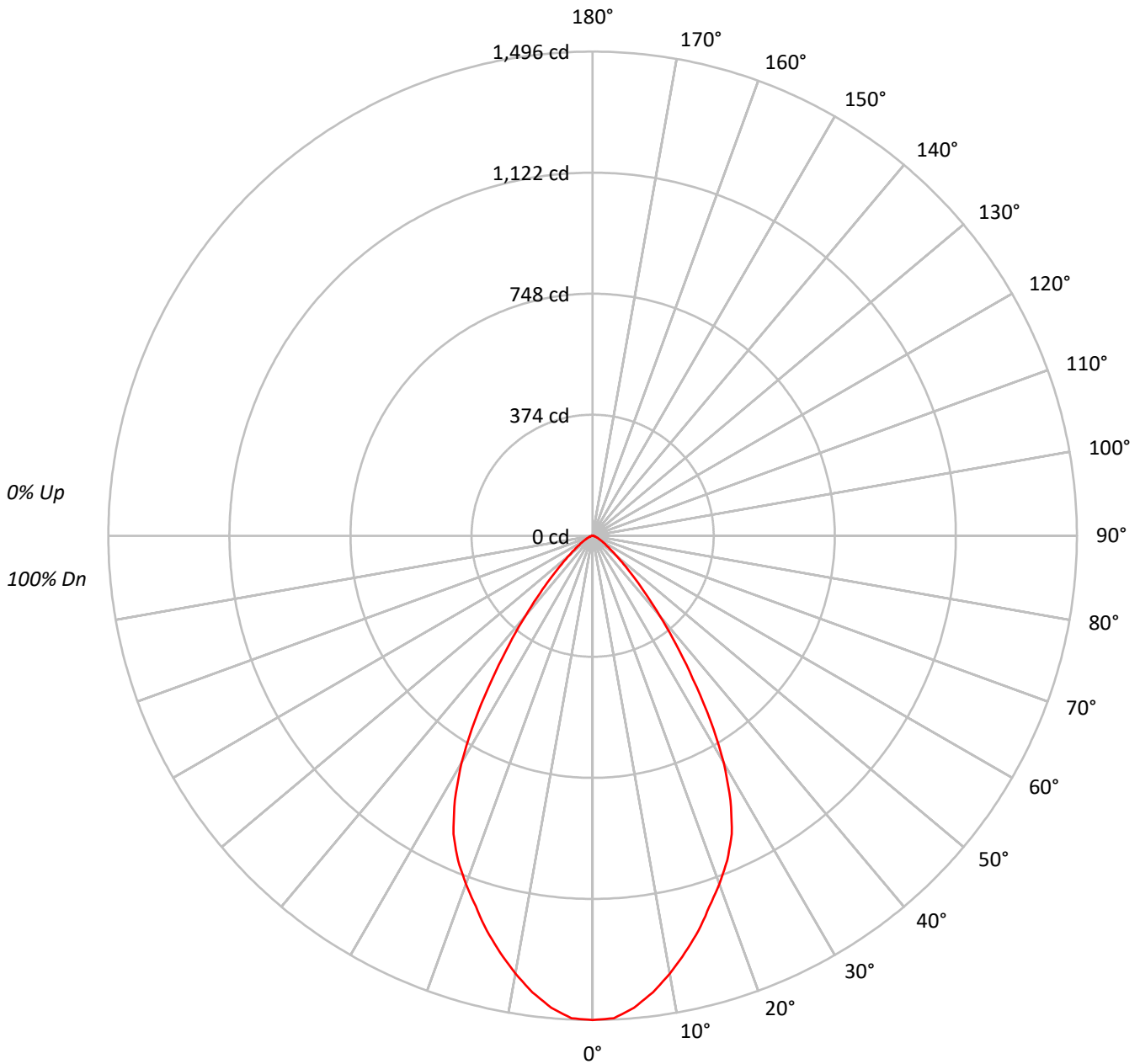
Lumens per Lamp: N/A  
Luminaire Lumens: 1511.9 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
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	88	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°	82033
5°	80563
10°	76446
15°	71686
20°	66762
25°	61516
30°	51255
35°	36125
40°	23022
45°	13730
50°	8102
55°	5152
60°	3552
65°	2516
70°	1731
75°	1377
80°	663
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.8	9.0
10°-20°	353.9	23.4
20°-30°	458.6	30.3
30°-40°	340.5	22.5
40°-50°	143.7	9.5
50°-60°	51.0	3.4
60°-70°	19.7	1.3
70°-80°	6.8	0.4
80°-90°	0.9	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°	949.4	62.8
0°-40°	1289.9	85.3
0°-60°	1484.6	98.2
0°-90°	1511.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1511.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1496	
5°	1464	137
15°	1263	354
25°	1017	459
35°	540	340
45°	177	144
55°	54	51
65°	19	20
75°	6	7
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1496.4
2.5°	1492.0
5°	1464.0
7.5°	1422.9
10°	1373.3
12.5°	1319.3
15°	1263.1
17.5°	1200.5
20°	1144.4
22.5°	1086.1
25°	1017.0
27.5°	922.0
30°	809.7
32.5°	678.0
35°	539.8
37.5°	423.2
40°	321.7
42.5°	239.6
45°	177.1
47.5°	129.5
50°	95.0
52.5°	71.2
55°	53.9
57.5°	41.0
60°	32.4
62.5°	23.8
65°	19.4
67.5°	15.1
70°	10.8
72.5°	8.6
75°	6.5
77.5°	4.3
80°	2.1
82.5°	2.1
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)