

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: P575978

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-30 F6X-M-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P575978  
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-20-D010 FEU6C-X-90-30 F6X-M-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBMLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

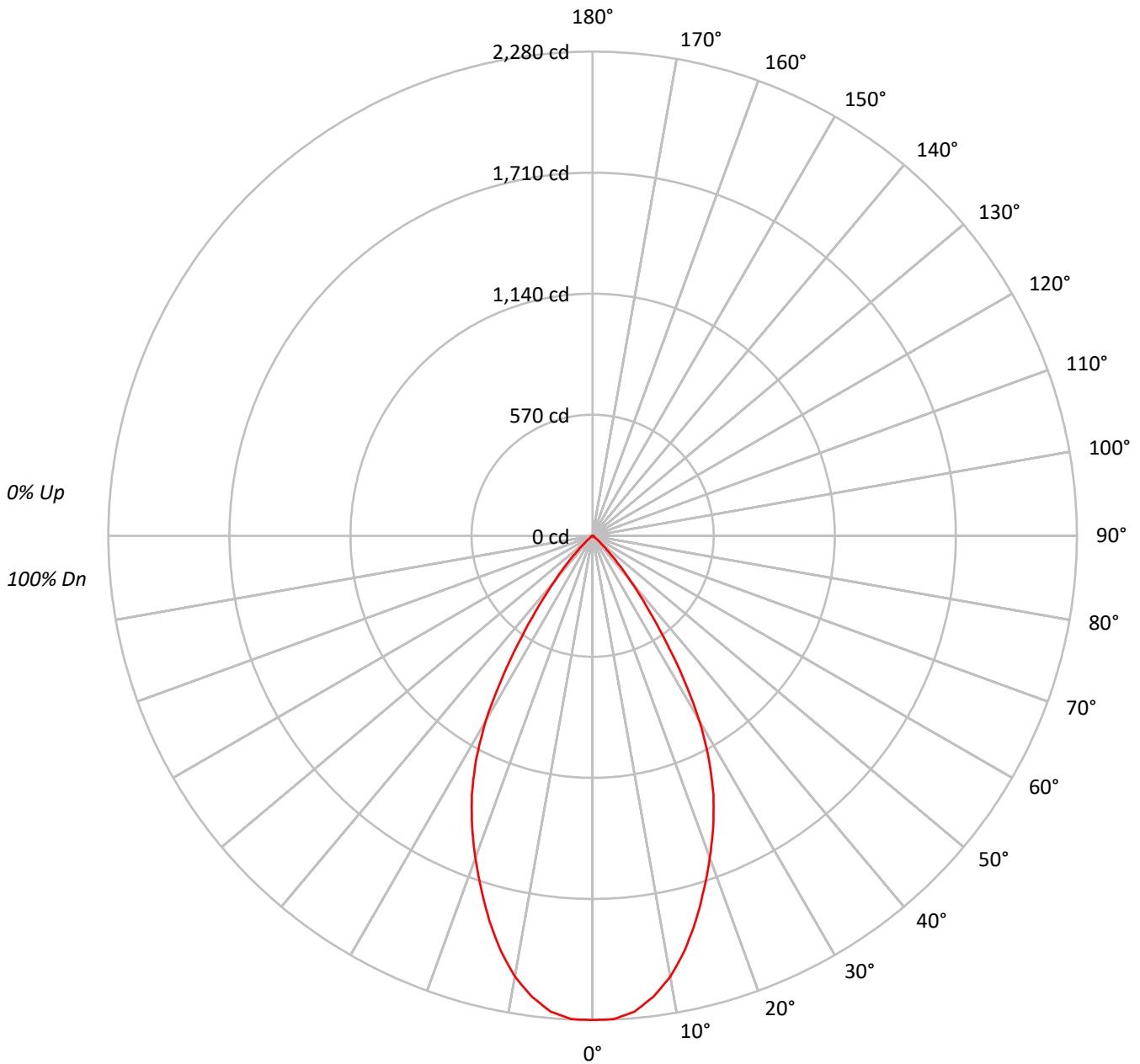
Lumens per Lamp: N/A  
Luminaire Lumens: 1822.0 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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°	124995
5°	123811
10°	117321
15°	106516
20°	94123
25°	81374
30°	63605
35°	39009
40°	20023
45°	7954
50°	2584
55°	889
60°	767
65°	610
70°	369
75°	487
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.1	11.5
10°-20°	523.0	28.7
20°-30°	607.9	33.4
30°-40°	372.3	20.4
40°-50°	92.4	5.1
50°-60°	10.8	0.6
60°-70°	4.0	0.2
70°-80°	1.5	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°	1340.9	73.6
0°-40°	1713.2	94.0
0°-60°	1816.4	99.7
0°-90°	1822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1822.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2280	
5°	2250	210
15°	1877	523
25°	1345	608
35°	583	372
45°	103	92
55°	9	11
65°	5	4
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2280.1
2.5°	2277.8
5°	2249.9
7.5°	2189.2
10°	2107.6
12.5°	2000.4
15°	1876.8
17.5°	1743.9
20°	1613.4
22.5°	1482.8
25°	1345.3
27.5°	1186.7
30°	1004.8
32.5°	792.7
35°	582.9
37.5°	410.3
40°	279.8
42.5°	174.8
45°	102.6
47.5°	58.3
50°	30.3
52.5°	14.0
55°	9.3
57.5°	7.0
60°	7.0
62.5°	4.7
65°	4.7
67.5°	2.3
70°	2.3
72.5°	2.3
75°	2.3
77.5°	0.0
80°	0.0
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)