

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: P574398

Luminaire Tested: **FLD6C-05-D010 FEU6C-X-90-50 F6X-W-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P574398  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-05-D010 FEU6C-X-90-50 F6X-W-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

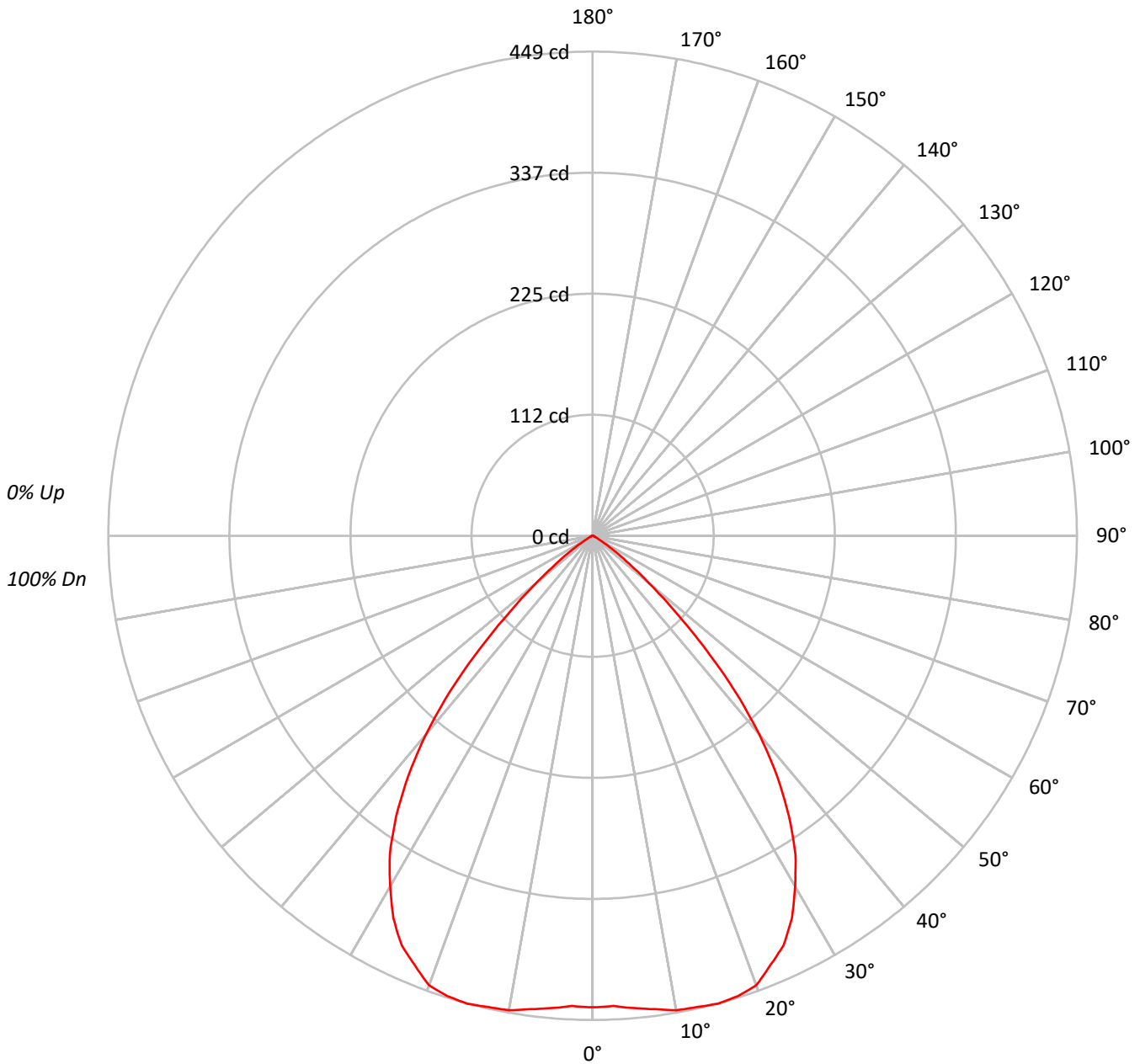
Lumens per Lamp: N/A  
Luminaire Lumens: 700.0 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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																		
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	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								100																				
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92								92																				
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83								83																				
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76								76																				
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69								69																				
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63								63																				
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57								57																				
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52								52																				
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48								48																				
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	45	44								44																				
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41								41																				

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	23973
5°	24197
10°	24872
15°	25494
20°	25879
25°	25344
30°	23763
35°	21248
40°	17211
45°	11381
50°	5757
55°	2428
60°	778
65°	311
70°	256
75°	169
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.2	6.0
10°-20°	126.8	18.1
20°-30°	191.1	27.3
30°-40°	195.6	27.9
40°-50°	114.0	16.3
50°-60°	26.2	3.7
60°-70°	3.2	0.5
70°-80°	0.8	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°	360.1	51.4
0°-40°	555.8	79.4
0°-60°	695.9	99.4
0°-90°	700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	700.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	437	
5°	440	42
15°	449	127
25°	419	191
35°	318	196
45°	147	114
55°	25	26
65°	2	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	437.3
2.5°	436.5
5°	439.7
7.5°	442.8
10°	446.8
12.5°	447.6
15°	449.2
17.5°	447.6
20°	443.6
22.5°	430.9
25°	419.0
27.5°	400.0
30°	375.4
32.5°	350.0
35°	317.5
37.5°	280.9
40°	240.5
42.5°	195.2
45°	146.8
47.5°	102.4
50°	67.5
52.5°	42.9
55°	25.4
57.5°	13.5
60°	7.1
62.5°	4.0
65°	2.4
67.5°	2.4
70°	1.6
72.5°	0.8
75°	0.8
77.5°	0.8
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)