

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: P576838

Luminaire Tested: **FLD6C-35-D010 FEU6C-X-90-27 F6X-N-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P576838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205310)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-35-D010 FEU6C-X-90-27 F6X-N-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBNLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

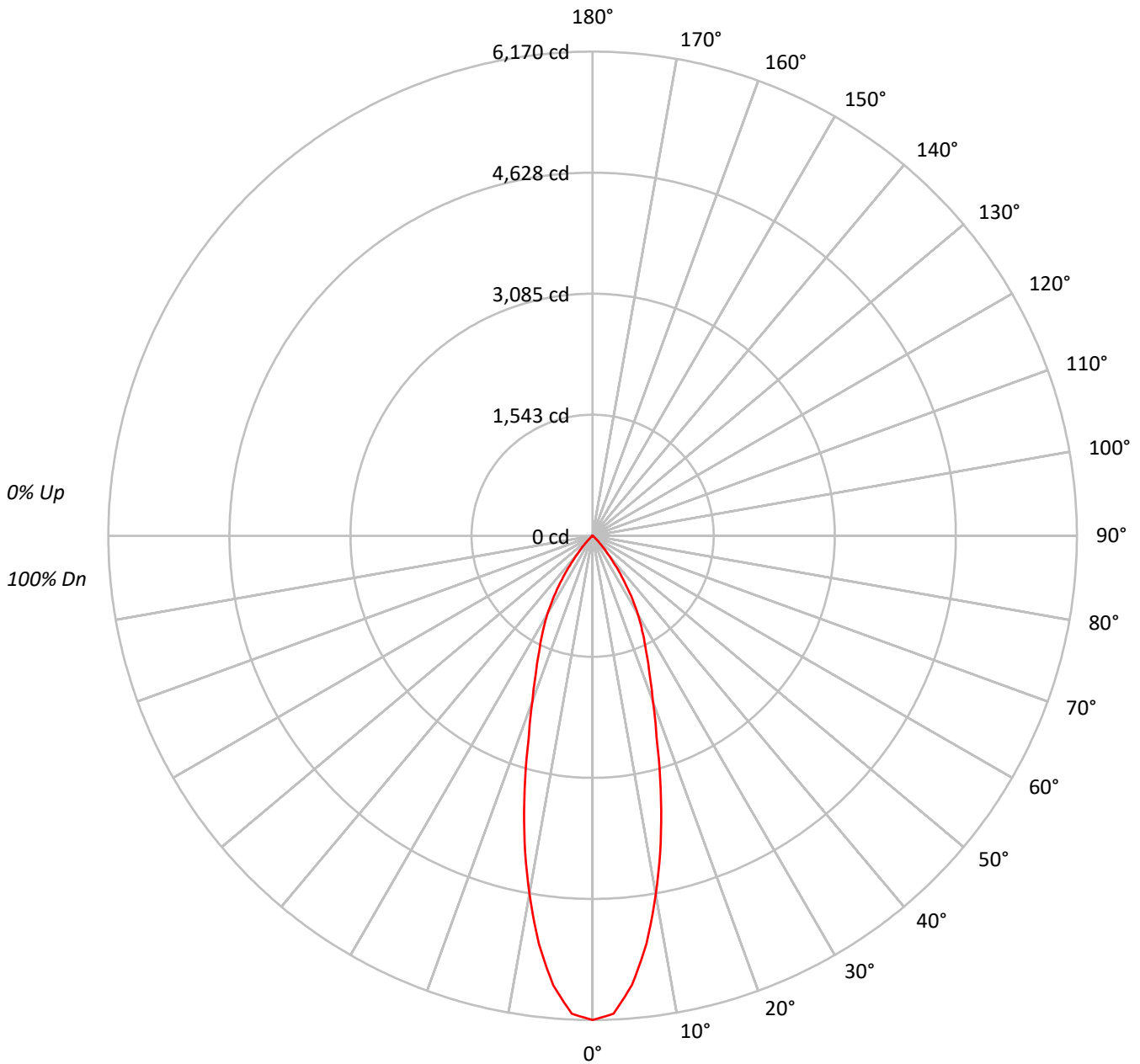
Lumens per Lamp: N/A  
Luminaire Lumens: 2710.0 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.58  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.4  
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

TEST NUMBER: P576838

CATALOG NUMBER: FLD6C-35-D010 FEU6C-X-90-27 F6X-N-X-LI

### Luminous Intensity Polar Plot





TEST NUMBER: P576838

CATALOG NUMBER: FLD6C-35-D010 FEU6C-X-90-27 F6X-N-X-LI

**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	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95																																				
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89																																				
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85																																				
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80																																				
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76																																				
6	92	84	79	75	90	83	78	75	82	77	74	80	76	74	79	76	73	72																																				
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68																																				
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65																																				
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62																																				
10	78	69	64	61	77	69	64	61	68	64	61	67	63	60	67	63	60	59																																				

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

	0°
0°	338240
5°	316315
10°	257978
15°	189837
20°	130847
25°	97143
30°	72967
35°	45501
40°	22084
45°	7574
50°	998
55°	755
60°	428
65°	506
70°	625
75°	0
80°	0
85°	0



TEST NUMBER: P576838

CATALOG NUMBER: FLD6C-35-D010 FEU6C-X-90-27 F6X-N-X-LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.0	18.9
10°-20°	920.8	34.0
20°-30°	744.5	27.5
30°-40°	428.9	15.8
40°-50°	90.6	3.3
50°-60°	7.9	0.3
60°-70°	3.9	0.1
70°-80°	0.5	0.0
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°	2178.2	80.4
0°-40°	2607.1	96.2
0°-60°	2705.6	99.8
0°-90°	2710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2710.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6170	
5°	5748	513
15°	3345	921
25°	1606	744
35°	680	429
45°	98	91
55°	8	8
65°	4	4
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P576838

CATALOG NUMBER: FLD6C-35-D010 FEU6C-X-90-27 F6X-N-X-LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6170.0
2.5°	6095.9
5°	5748.1
7.5°	5247.9
10°	4634.4
12.5°	4005.3
15°	3344.9
17.5°	2708.0
20°	2242.9
22.5°	1887.4
25°	1606.0
27.5°	1367.7
30°	1152.7
32.5°	914.4
35°	679.9
37.5°	472.8
40°	308.6
42.5°	187.6
45°	97.7
47.5°	39.0
50°	11.7
52.5°	11.7
55°	7.9
57.5°	7.9
60°	3.9
62.5°	3.9
65°	3.9
67.5°	3.9
70°	3.9
72.5°	0.0
75°	0.0
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)