

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: P575658

Luminaire Tested: **FLD6C-15-D010 FEU6C-X-90-27 F6X-W-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P575658  
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-15-D010 FEU6C-X-90-27 F6X-W-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

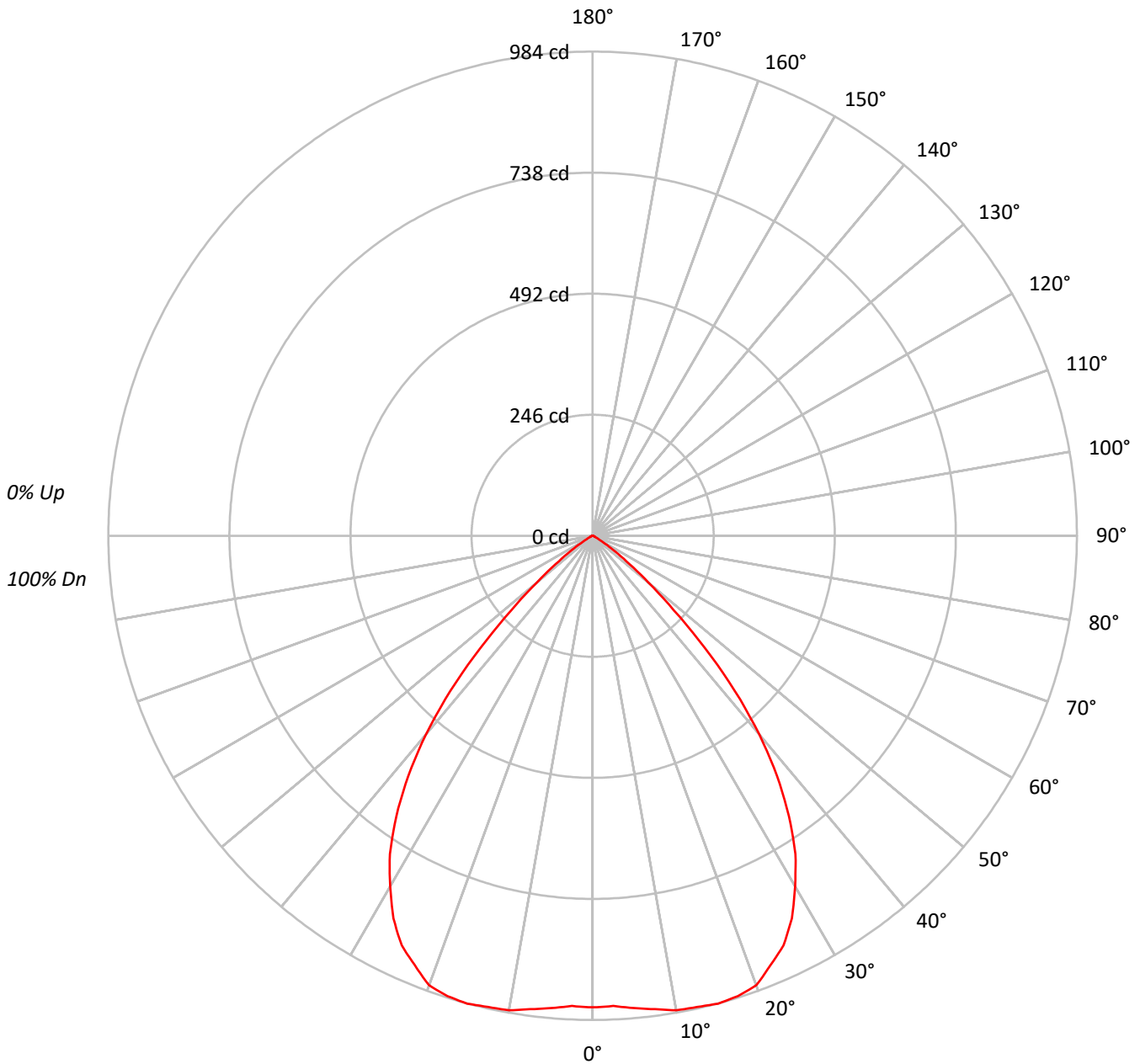
Lumens per Lamp: N/A  
Luminaire Lumens: 1534.0 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.8  
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

TEST NUMBER: P575658

CATALOG NUMBER: FLD6C-15-D010 FEU6C-X-90-27 F6X-W-X-LI

### Luminous Intensity Polar Plot





TEST NUMBER: P575658

CATALOG NUMBER: FLD6C-15-D010 FEU6C-X-90-27 F6X-W-X-LI

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

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

	0°
0°	52534
5°	53021
10°	54508
15°	55869
20°	56717
25°	55546
30°	52078
35°	46558
40°	37714
45°	24948
50°	12605
55°	5324
60°	1710
65°	675
70°	561
75°	381
80°	0
85°	0



TEST NUMBER: P575658

CATALOG NUMBER: FLD6C-15-D010 FEU6C-X-90-27 F6X-W-X-LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	6.0
10°-20°	277.9	18.1
20°-30°	418.9	27.3
30°-40°	428.7	27.9
40°-50°	249.8	16.3
50°-60°	57.4	3.7
60°-70°	7.0	0.5
70°-80°	1.9	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°	789.2	51.4
0°-40°	1218.0	79.4
0°-60°	1525.1	99.4
0°-90°	1534.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1534.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	958	
5°	964	92
15°	984	278
25°	918	419
35°	696	429
45°	322	250
55°	56	57
65°	5	7
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P575658

CATALOG NUMBER: FLD6C-15-D010 FEU6C-X-90-27 F6X-W-X-LI

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	958.3
2.5°	956.6
5°	963.5
7.5°	970.5
10°	979.2
12.5°	980.9
15°	984.4
17.5°	980.9
20°	972.2
22.5°	944.4
25°	918.3
27.5°	876.6
30°	822.7
32.5°	767.0
35°	695.7
37.5°	615.7
40°	527.0
42.5°	427.8
45°	321.8
47.5°	224.3
50°	147.8
52.5°	93.9
55°	55.7
57.5°	29.6
60°	15.6
62.5°	8.7
65°	5.2
67.5°	5.2
70°	3.5
72.5°	1.8
75°	1.8
77.5°	1.8
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)