

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: P576378

Luminaire Tested: **FLD6C-25-D010 FEU6C-X-90-35 F6X-W-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P576378  
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-25-D010 FEU6C-X-90-35 F6X-W-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

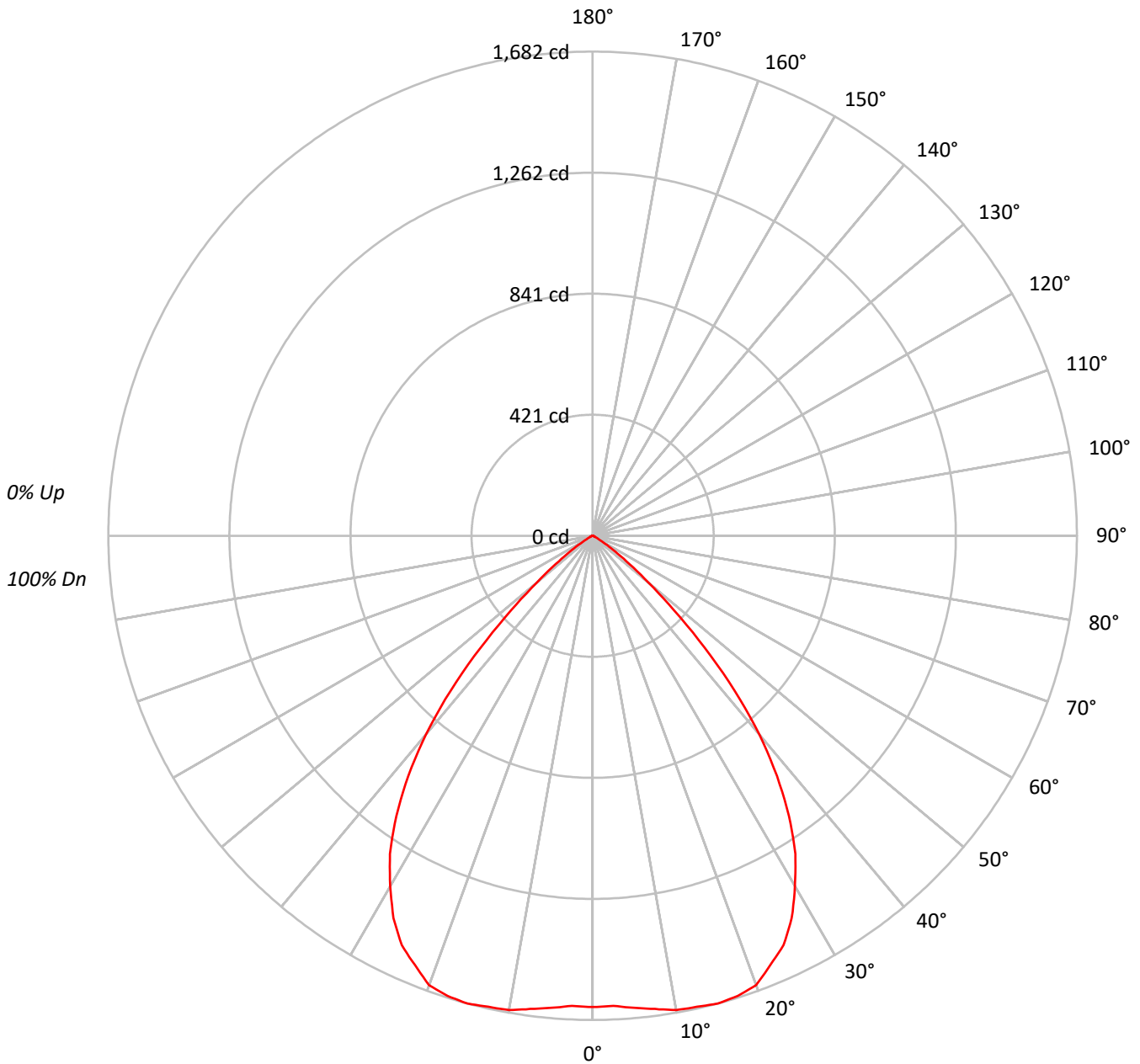
Lumens per Lamp: N/A  
Luminaire Lumens: 2621.0 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.5  
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									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°	89763
5°	90595
10°	93129
15°	95460
20°	96906
25°	94905
30°	88976
35°	79551
40°	64435
45°	42625
50°	21543
55°	9089
60°	2927
65°	1154
70°	962
75°	635
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.0	6.0
10°-20°	474.8	18.1
20°-30°	715.7	27.3
30°-40°	732.5	27.9
40°-50°	426.8	16.3
50°-60°	98.1	3.7
60°-70°	12.1	0.5
70°-80°	3.2	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°	1348.4	51.4
0°-40°	2081.0	79.4
0°-60°	2605.8	99.4
0°-90°	2621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2621.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1637	
5°	1646	158
15°	1682	475
25°	1569	716
35°	1189	733
45°	550	427
55°	95	98
65°	9	12
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1637.4
2.5°	1634.4
5°	1646.3
7.5°	1658.1
10°	1673.0
12.5°	1676.0
15°	1682.0
17.5°	1676.0
20°	1661.1
22.5°	1613.6
25°	1569.0
27.5°	1497.7
30°	1405.6
32.5°	1310.5
35°	1188.7
37.5°	1051.9
40°	900.4
42.5°	731.0
45°	549.8
47.5°	383.3
50°	252.6
52.5°	160.5
55°	95.1
57.5°	50.5
60°	26.7
62.5°	14.9
65°	8.9
67.5°	8.9
70°	6.0
72.5°	3.0
75°	3.0
77.5°	3.0
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)