

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: P576268

Luminaire Tested: **FLD6C-25-D010 FEU6C-X-90-30 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P576268  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)  
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-90-30 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

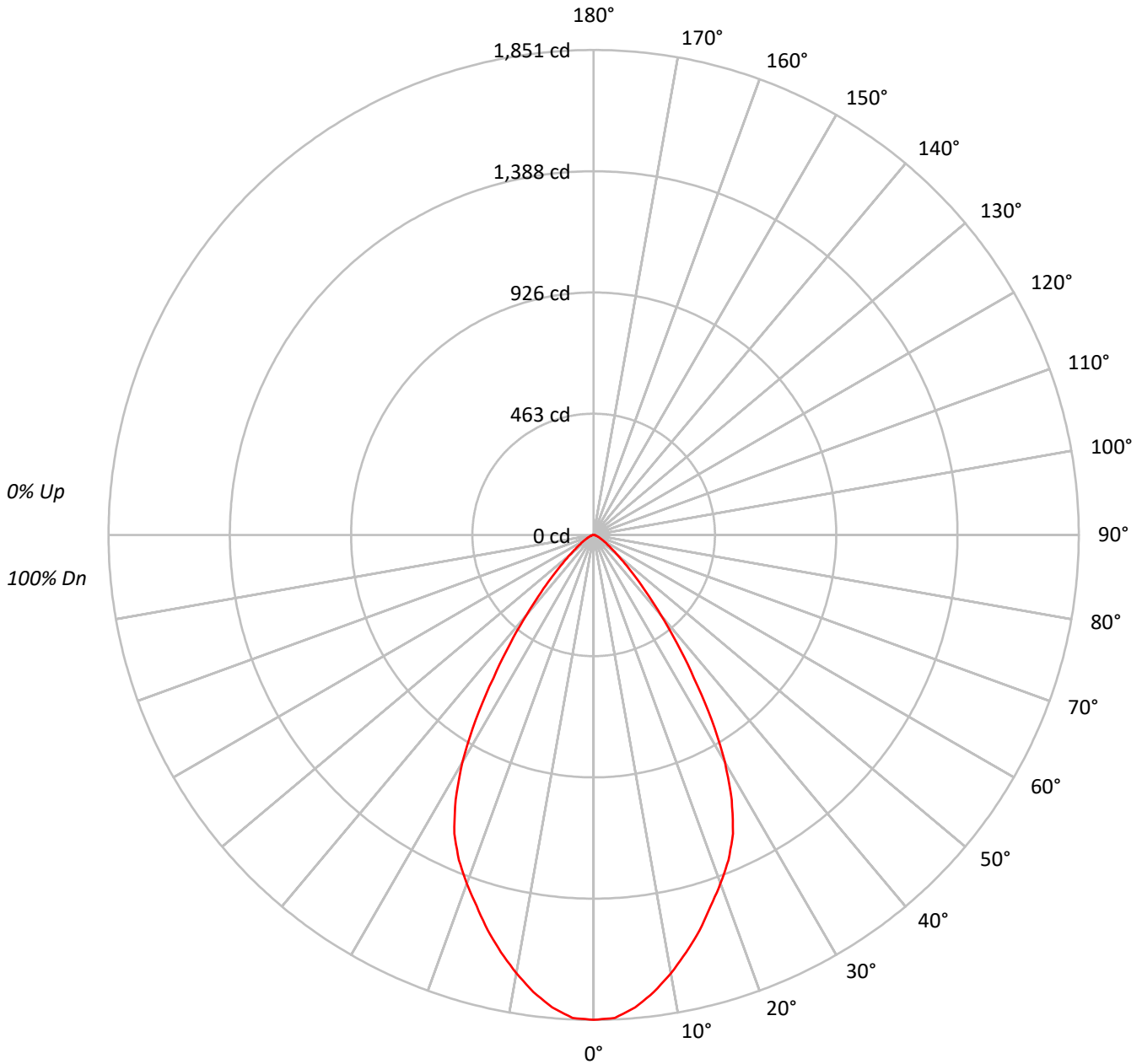
Lumens per Lamp: N/A  
Luminaire Lumens: 1870.0 lumens  
Efficiency: N/A  
Efficacy: 59.4 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.5  
Input Voltage (V): NR  
Input Current (Ain): 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				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	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	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85
3	101	94	88	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53			53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49			49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46			46

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

	0°
0°	101456
5°	99637
10°	94548
15°	88661
20°	82566
25°	76081
30°	63390
35°	44678
40°	28475
45°	16979
50°	10021
55°	6375
60°	4397
65°	3113
70°	2148
75°	1694
80°	821
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.2	9.0
10°-20°	437.7	23.4
20°-30°	567.2	30.3
30°-40°	421.1	22.5
40°-50°	177.8	9.5
50°-60°	63.1	3.4
60°-70°	24.4	1.3
70°-80°	8.4	0.5
80°-90°	1.1	0.1
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°	1174.1	62.8
0°-40°	1595.2	85.3
0°-60°	1836.1	98.2
0°-90°	1870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1870.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1851	
5°	1811	169
15°	1562	438
25°	1258	567
35°	668	421
45°	219	178
55°	67	63
65°	24	24
75°	8	8
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1850.7
2.5°	1845.3
5°	1810.6
7.5°	1759.8
10°	1698.5
12.5°	1631.6
15°	1562.2
17.5°	1484.8
20°	1415.3
22.5°	1343.2
25°	1257.8
27.5°	1140.2
30°	1001.4
32.5°	838.5
35°	667.6
37.5°	523.4
40°	397.9
42.5°	296.4
45°	219.0
47.5°	160.2
50°	117.5
52.5°	88.1
55°	66.7
57.5°	50.7
60°	40.1
62.5°	29.4
65°	24.0
67.5°	18.7
70°	13.4
72.5°	10.6
75°	8.0
77.5°	5.4
80°	2.6
82.5°	2.6
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)