

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: P576748

Luminaire Tested: **FLD6C-30-D010 FEU6C-X-90-50 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P576748  
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-30-D010 FEU6C-X-90-50 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

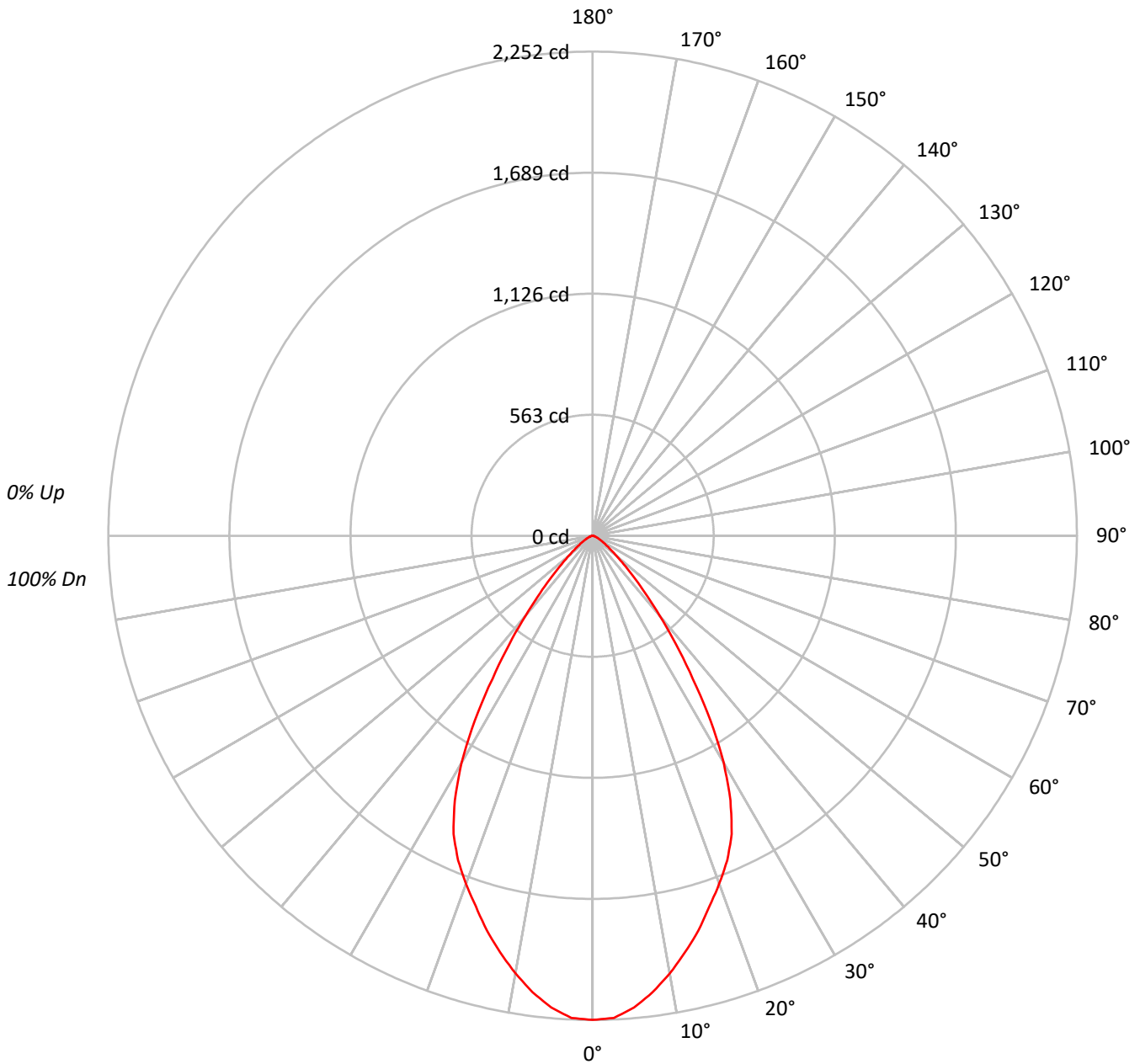
Lumens per Lamp: N/A  
Luminaire Lumens: 2275.0 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.6  
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				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	87	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°	123428
5°	121214
10°	115022
15°	107861
20°	100453
25°	92558
30°	77119
35°	54355
40°	34643
45°	20661
50°	12196
55°	7761
60°	5339
65°	3788
70°	2613
75°	2055
80°	1010
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.9	9.0
10°-20°	532.6	23.4
20°-30°	690.0	30.3
30°-40°	512.3	22.5
40°-50°	216.3	9.5
50°-60°	76.8	3.4
60°-70°	29.6	1.3
70°-80°	10.3	0.5
80°-90°	1.3	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°	1428.5	62.8
0°-40°	1940.8	85.3
0°-60°	2233.8	98.2
0°-90°	2275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2275.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2252	
5°	2203	206
15°	1900	533
25°	1530	690
35°	812	512
45°	266	216
55°	81	77
65°	29	30
75°	10	10
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2251.5
2.5°	2244.9
5°	2202.7
7.5°	2140.9
10°	2066.3
12.5°	1985.0
15°	1900.5
17.5°	1806.4
20°	1721.9
22.5°	1634.2
25°	1530.2
27.5°	1387.2
30°	1218.3
32.5°	1020.1
35°	812.2
37.5°	636.8
40°	484.1
42.5°	360.6
45°	266.5
47.5°	194.9
50°	143.0
52.5°	107.2
55°	81.2
57.5°	61.7
60°	48.7
62.5°	35.8
65°	29.2
67.5°	22.7
70°	16.3
72.5°	13.0
75°	9.7
77.5°	6.5
80°	3.2
82.5°	3.2
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)