

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: P576628

Luminaire Tested: **FLD6C-30-D010 FEU6C-X-90-35 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P576628  
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-90-35 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

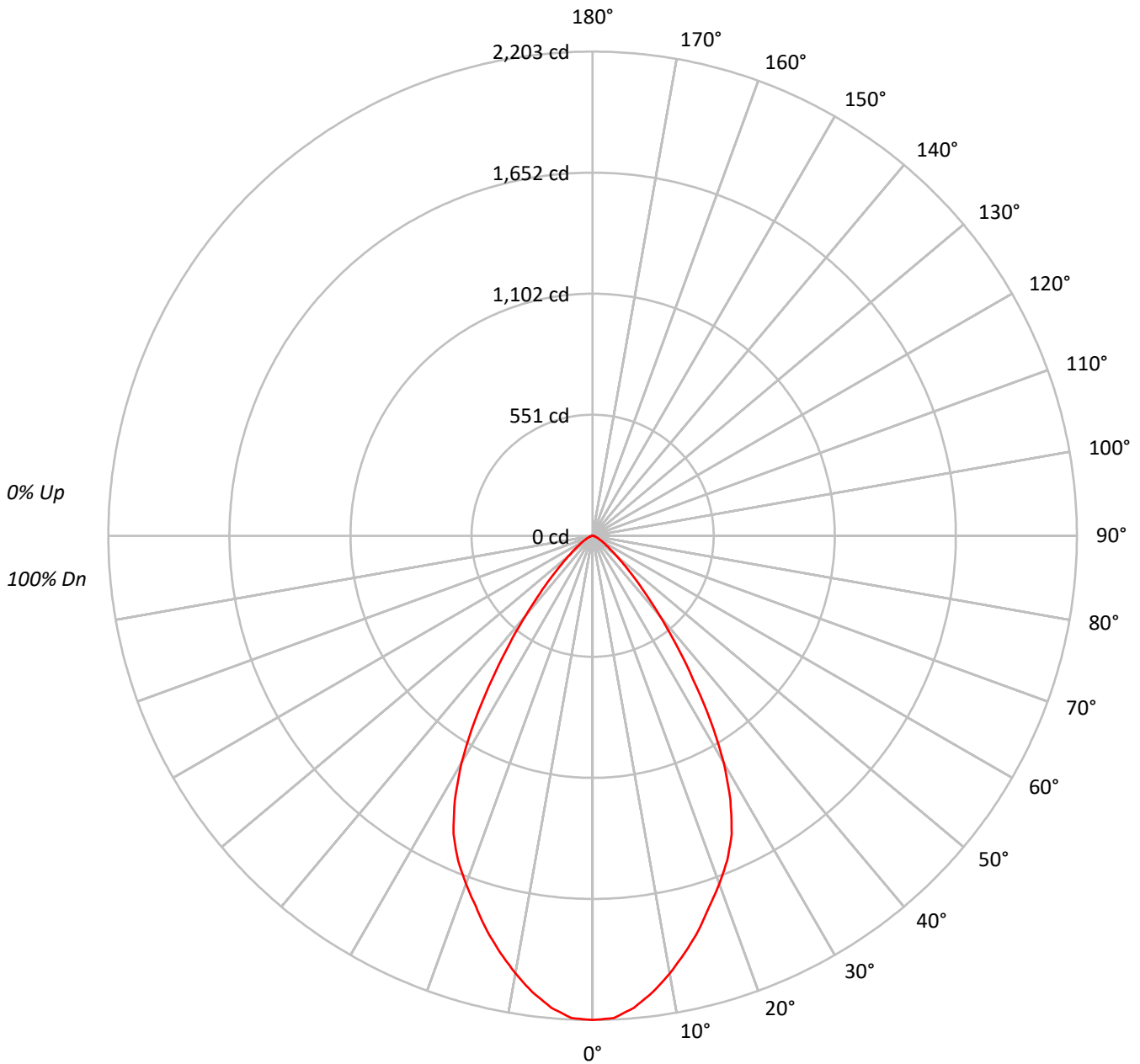
Lumens per Lamp: N/A  
Luminaire Lumens: 2226.0 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.6  
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				
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°	120769
5°	118605
10°	112545
15°	105540
20°	98289
25°	90562
30°	75461
35°	53184
40°	33892
45°	20211
50°	11931
55°	7589
60°	5230
65°	3710
70°	2549
75°	2012
80°	979
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.4	9.0
10°-20°	521.1	23.4
20°-30°	675.2	30.3
30°-40°	501.3	22.5
40°-50°	211.6	9.5
50°-60°	75.1	3.4
60°-70°	29.0	1.3
70°-80°	10.0	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°	1397.7	62.8
0°-40°	1898.9	85.3
0°-60°	2185.7	98.2
0°-90°	2226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2226.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2203	
5°	2155	201
15°	1860	521
25°	1497	675
35°	795	501
45°	261	212
55°	79	75
65°	29	29
75°	10	10
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2203.0
2.5°	2196.6
5°	2155.3
7.5°	2094.8
10°	2021.8
12.5°	1942.2
15°	1859.6
17.5°	1767.5
20°	1684.8
22.5°	1599.0
25°	1497.2
27.5°	1357.3
30°	1192.1
32.5°	998.1
35°	794.7
37.5°	623.1
40°	473.6
42.5°	352.8
45°	260.7
47.5°	190.7
50°	139.9
52.5°	104.9
55°	79.4
57.5°	60.4
60°	47.7
62.5°	35.0
65°	28.6
67.5°	22.2
70°	15.9
72.5°	12.7
75°	9.5
77.5°	6.4
80°	3.1
82.5°	3.1
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)