

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: P575968

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-30 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P575968  
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-20-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**

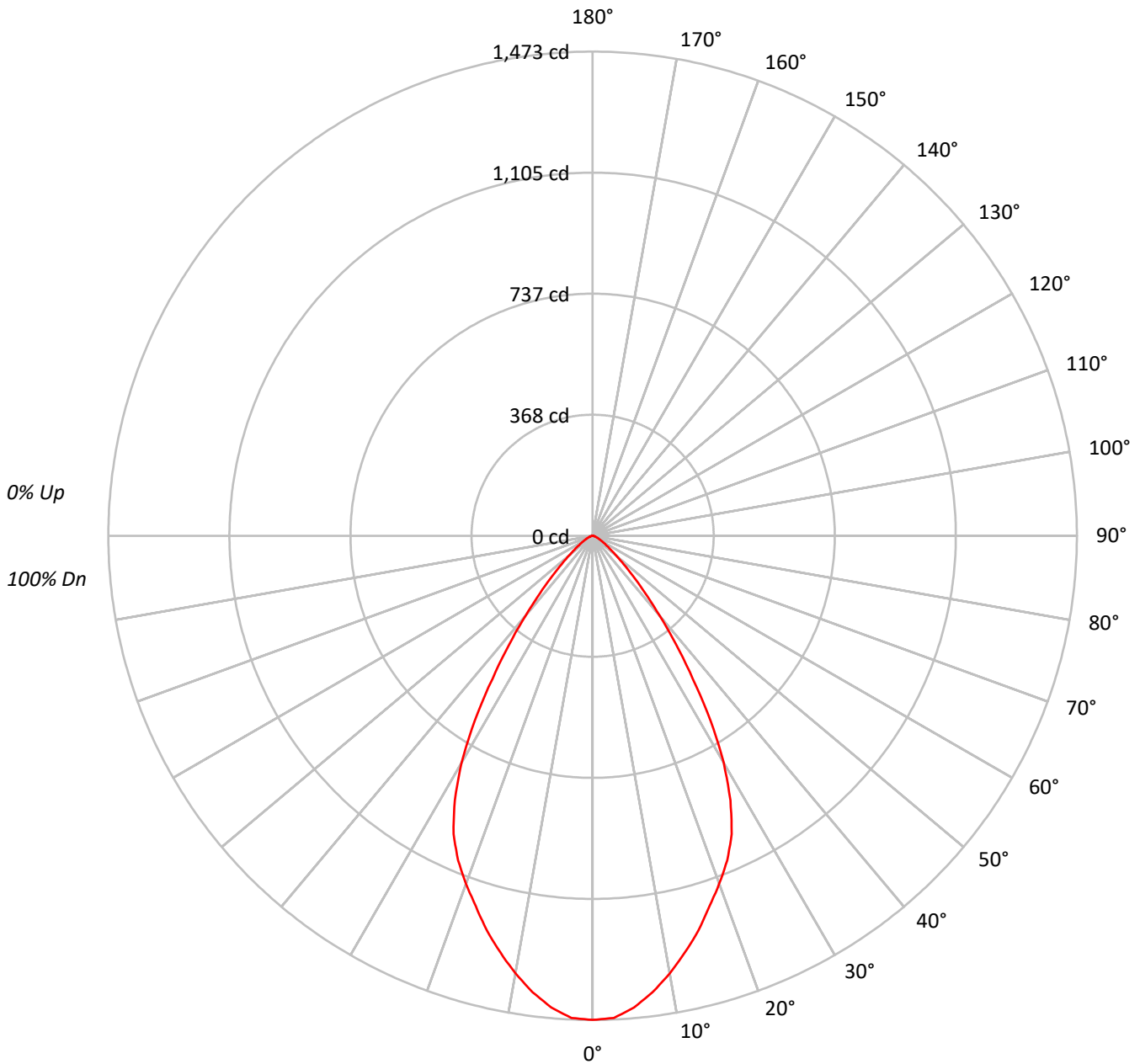
Lumens per Lamp: N/A  
Luminaire Lumens: 1488.0 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
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

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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			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°	80728
5°	79281
10°	75232
15°	70551
20°	65701
25°	60536
30°	50444
35°	35550
40°	22657
45°	13513
50°	7974
55°	5075
60°	3498
65°	2478
70°	1715
75°	1356
80°	663
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.6	9.0
10°-20°	348.3	23.4
20°-30°	451.3	30.3
30°-40°	335.1	22.5
40°-50°	141.5	9.5
50°-60°	50.2	3.4
60°-70°	19.4	1.3
70°-80°	6.7	0.5
80°-90°	0.9	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°	934.3	62.8
0°-40°	1269.4	85.3
0°-60°	1461.0	98.2
0°-90°	1488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1488.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1473	
5°	1441	135
15°	1243	348
25°	1001	451
35°	531	335
45°	174	141
55°	53	50
65°	19	19
75°	6	7
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1472.6
2.5°	1468.3
5°	1440.7
7.5°	1400.3
10°	1351.5
12.5°	1298.3
15°	1243.1
17.5°	1181.5
20°	1126.2
22.5°	1068.9
25°	1000.8
27.5°	907.3
30°	796.9
32.5°	667.2
35°	531.2
37.5°	416.5
40°	316.6
42.5°	235.8
45°	174.3
47.5°	127.5
50°	93.5
52.5°	70.1
55°	53.1
57.5°	40.3
60°	31.9
62.5°	23.4
65°	19.1
67.5°	14.8
70°	10.7
72.5°	8.5
75°	6.4
77.5°	4.3
80°	2.1
82.5°	2.1
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)