

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: P579688

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-40 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P579688  
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-80-D010 FEU6C-X-90-40 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

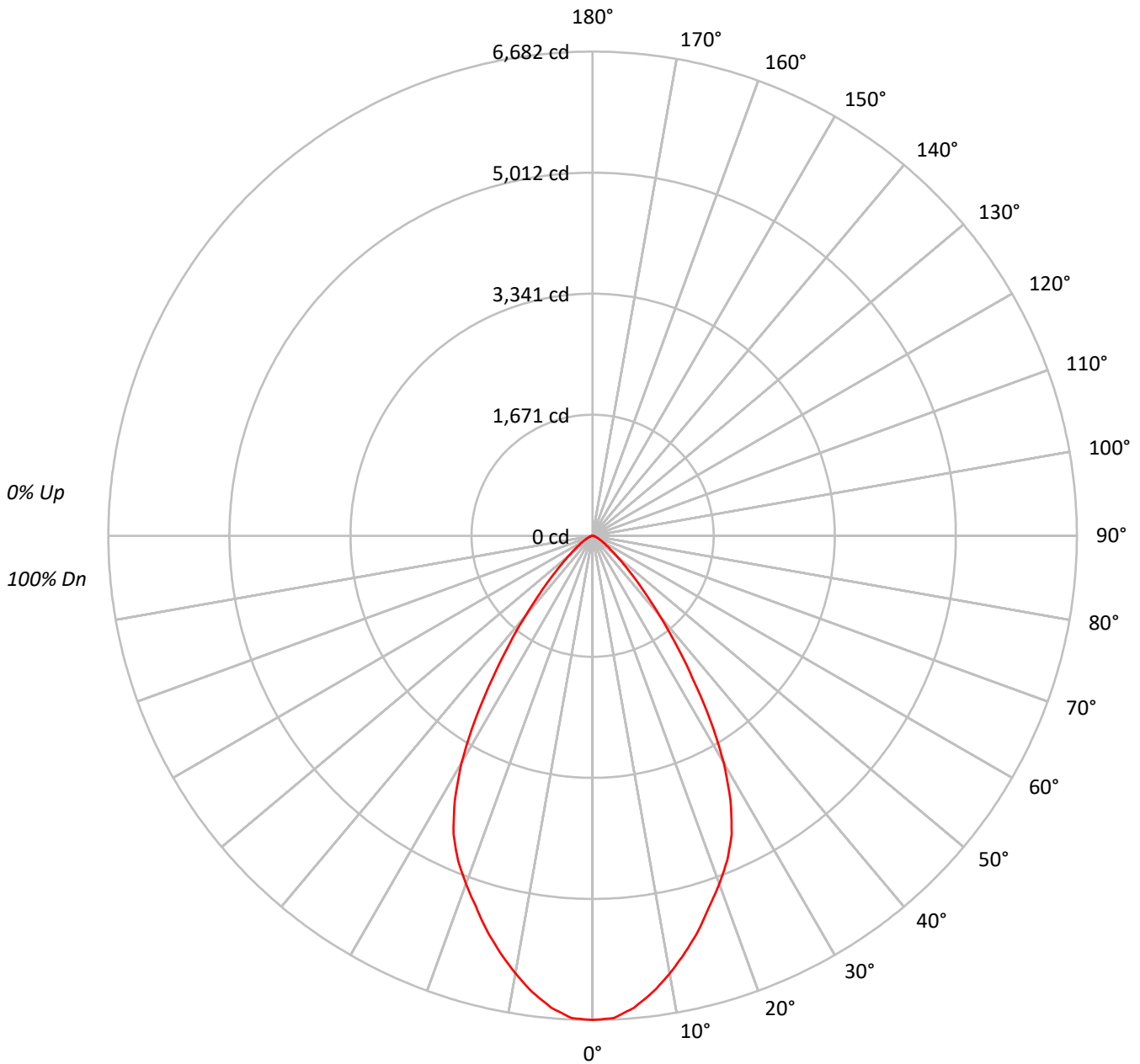
Lumens per Lamp: N/A  
Luminaire Lumens: 6752.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 89.5  
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									
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°	366319
5°	359756
10°	341376
15°	320121
20°	298133
25°	274697
30°	228890
35°	161325
40°	102814
45°	61309
50°	36186
55°	23024
60°	15854
65°	11259
70°	7742
75°	6121
80°	2999
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	611.0	9.0
10°-20°	1580.6	23.4
20°-30°	2048.0	30.3
30°-40°	1520.5	22.5
40°-50°	641.9	9.5
50°-60°	227.9	3.4
60°-70°	88.0	1.3
70°-80°	30.4	0.5
80°-90°	3.9	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°	4239.5	62.8
0°-40°	5760.0	85.3
0°-60°	6629.7	98.2
0°-90°	6752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6752.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6682	
5°	6538	611
15°	5640	1581
25°	4541	2048
35°	2411	1520
45°	791	642
55°	241	228
65°	87	88
75°	29	30
85°	0	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6682.2
2.5°	6662.7
5°	6537.5
7.5°	6354.1
10°	6132.6
12.5°	5891.3
15°	5640.5
17.5°	5361.2
20°	5110.4
22.5°	4850.1
25°	4541.4
27.5°	4117.1
30°	3615.9
32.5°	3027.5
35°	2410.6
37.5°	1889.9
40°	1436.7
42.5°	1070.2
45°	790.8
47.5°	578.5
50°	424.3
52.5°	318.2
55°	240.9
57.5°	183.1
60°	144.6
62.5°	106.2
65°	86.8
67.5°	67.4
70°	48.3
72.5°	38.4
75°	28.9
77.5°	19.4
80°	9.5
82.5°	9.5
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)