

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: P577888

Luminaire Tested: **FLD6C-50-D010 FEU6C-X-90-40 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P577888  
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-50-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**

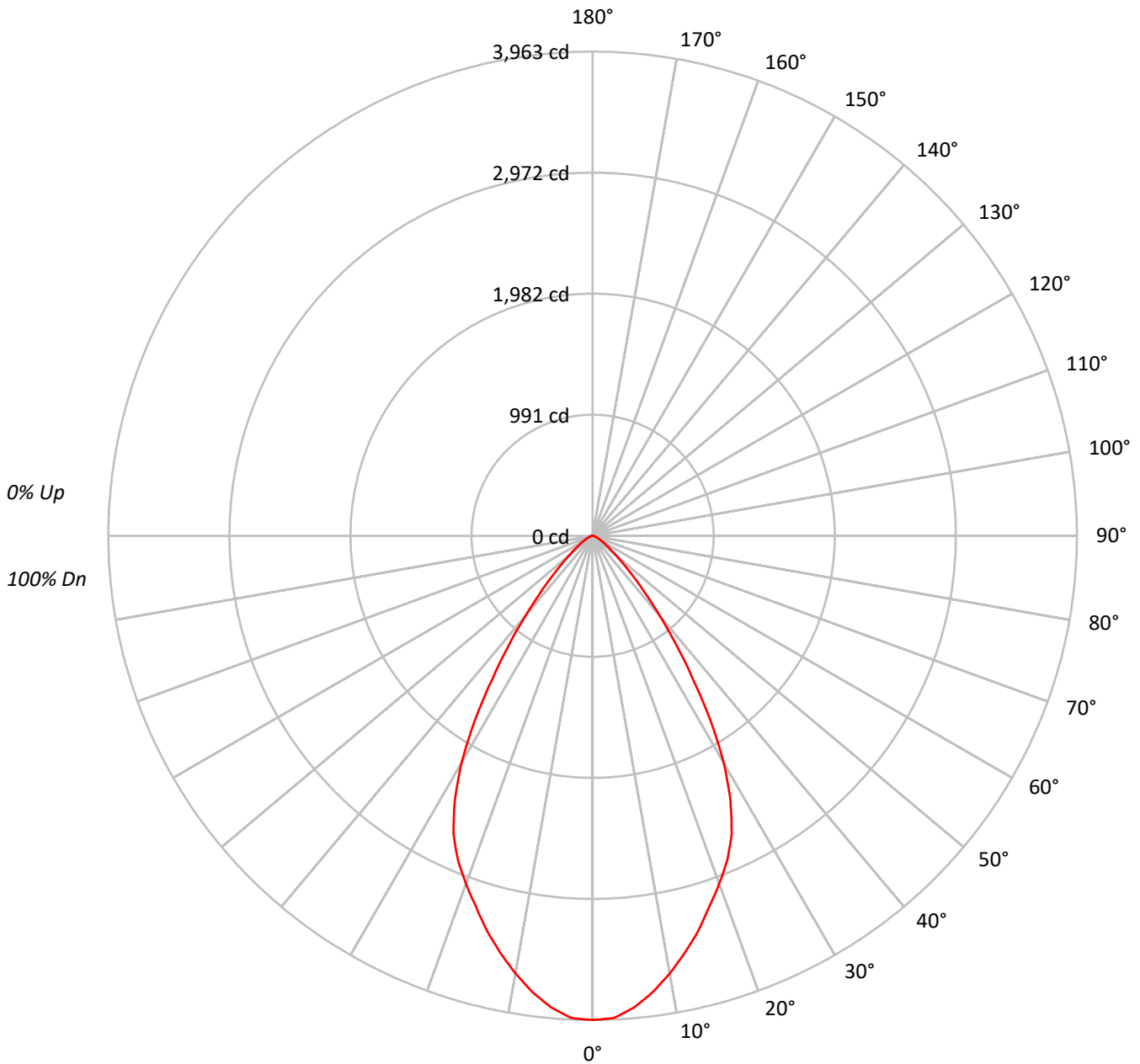
Lumens per Lamp: N/A  
Luminaire Lumens: 4004.0 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.4  
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																	
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	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																																				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																																				
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85																																				
3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78																																				
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72																																				
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66																																				
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61																																				
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																																				
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53																																				
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49																																				
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46																																				

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

	0°
0°	217230
5°	213339
10°	202440
15°	189837
20°	176795
25°	162899
30°	135730
35°	95667
40°	60971
45°	36360
50°	21458
55°	13658
60°	9407
65°	6680
70°	4600
75°	3643
80°	1768
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.3	9.0
10°-20°	937.3	23.4
20°-30°	1214.5	30.3
30°-40°	901.6	22.5
40°-50°	380.6	9.5
50°-60°	135.2	3.4
60°-70°	52.2	1.3
70°-80°	18.1	0.5
80°-90°	2.3	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°	2514.1	62.8
0°-40°	3415.7	85.3
0°-60°	3931.5	98.2
0°-90°	4004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4004.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3963	
5°	3877	362
15°	3345	937
25°	2693	1214
35°	1430	902
45°	469	381
55°	143	135
65°	52	52
75°	17	18
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3962.6
2.5°	3951.1
5°	3876.8
7.5°	3768.0
10°	3636.7
12.5°	3493.6
15°	3344.9
17.5°	3179.2
20°	3030.5
22.5°	2876.1
25°	2693.1
27.5°	2441.5
30°	2144.2
32.5°	1795.3
35°	1429.5
37.5°	1120.8
40°	852.0
42.5°	634.6
45°	469.0
47.5°	343.0
50°	251.6
52.5°	188.7
55°	142.9
57.5°	108.6
60°	85.8
62.5°	63.0
65°	51.5
67.5°	39.9
70°	28.7
72.5°	22.8
75°	17.2
77.5°	11.5
80°	5.6
82.5°	5.6
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)