

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: P577808

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

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P577808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)  
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-90-30 F6X-W-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

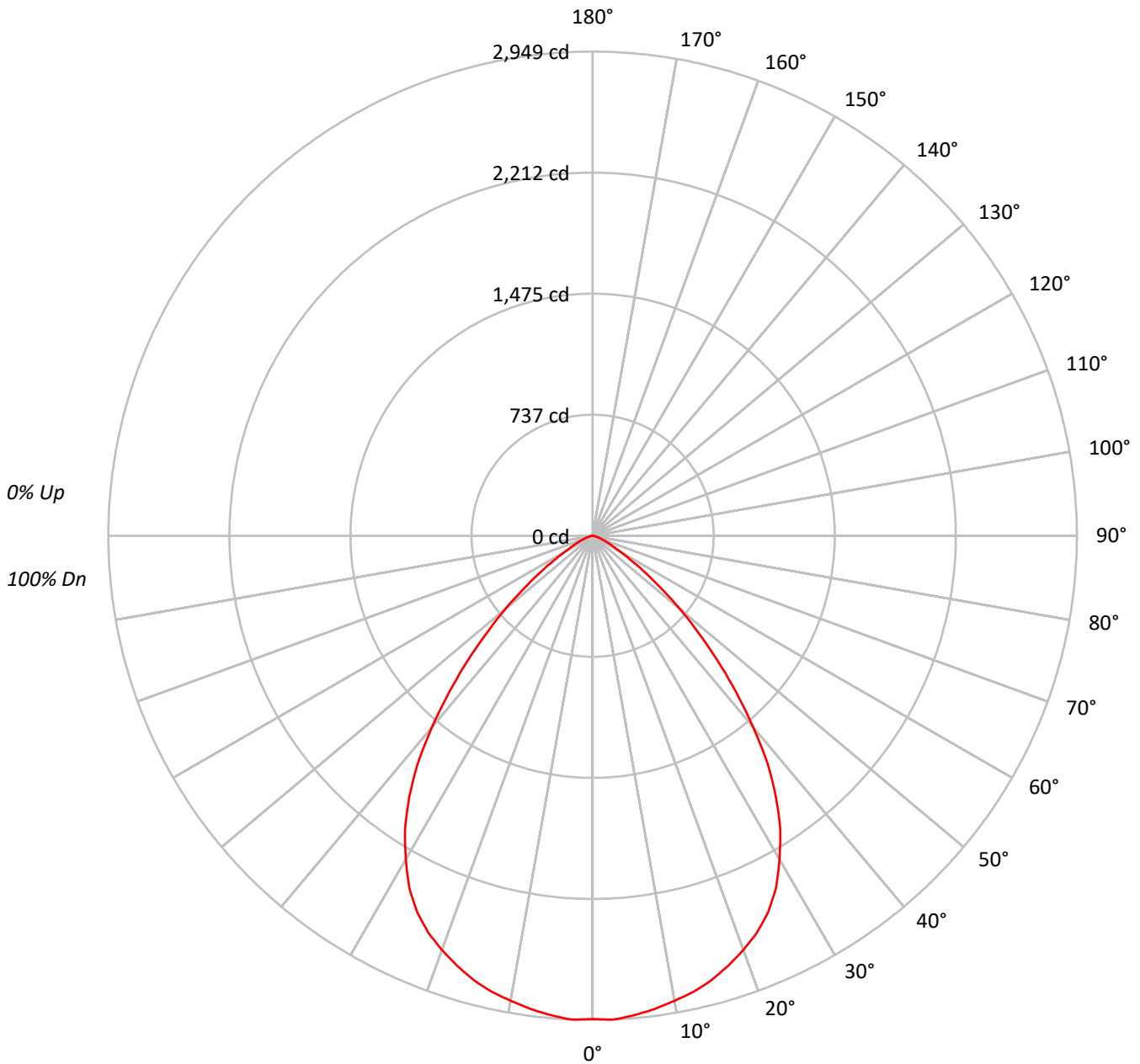
Lumens per Lamp: N/A  
Luminaire Lumens: 4772.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			41
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			38

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

	0°
0°	161347
5°	161292
10°	160050
15°	158979
20°	156557
25°	152979
30°	144041
35°	130353
40°	108854
45°	83404
50°	59068
55°	37246
60°	21007
65°	13633
70°	8912
75°	6545
80°	3915
85°	3900



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.0	5.8
10°-20°	788.8	16.5
20°-30°	1156.6	24.2
30°-40°	1203.7	25.2
40°-50°	832.8	17.5
50°-60°	362.6	7.6
60°-70°	111.2	2.3
70°-80°	33.3	0.7
80°-90°	5.1	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°	2223.4	46.6
0°-40°	3427.0	71.8
0°-60°	4622.4	96.9
0°-90°	4772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4772.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2943	
5°	2931	278
15°	2801	789
25°	2529	1157
35°	1948	1204
45°	1076	833
55°	390	363
65°	105	111
75°	31	33
85°	6	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2943.2
2.5°	2949.4
5°	2931.0
7.5°	2906.3
10°	2875.2
12.5°	2844.3
15°	2801.2
17.5°	2745.4
20°	2683.6
22.5°	2615.6
25°	2529.1
27.5°	2417.7
30°	2275.5
32.5°	2127.0
35°	1947.8
37.5°	1750.0
40°	1521.1
42.5°	1292.3
45°	1075.8
47.5°	871.8
50°	692.6
52.5°	525.7
55°	389.7
57.5°	278.3
60°	191.6
62.5°	142.3
65°	105.1
67.5°	80.5
70°	55.6
72.5°	43.3
75°	30.9
77.5°	18.4
80°	12.4
82.5°	6.2
85°	6.2
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)