

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: P579188

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-50 F6X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P579188  
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-70-D010 FEU6C-X-90-50 F6X-W-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

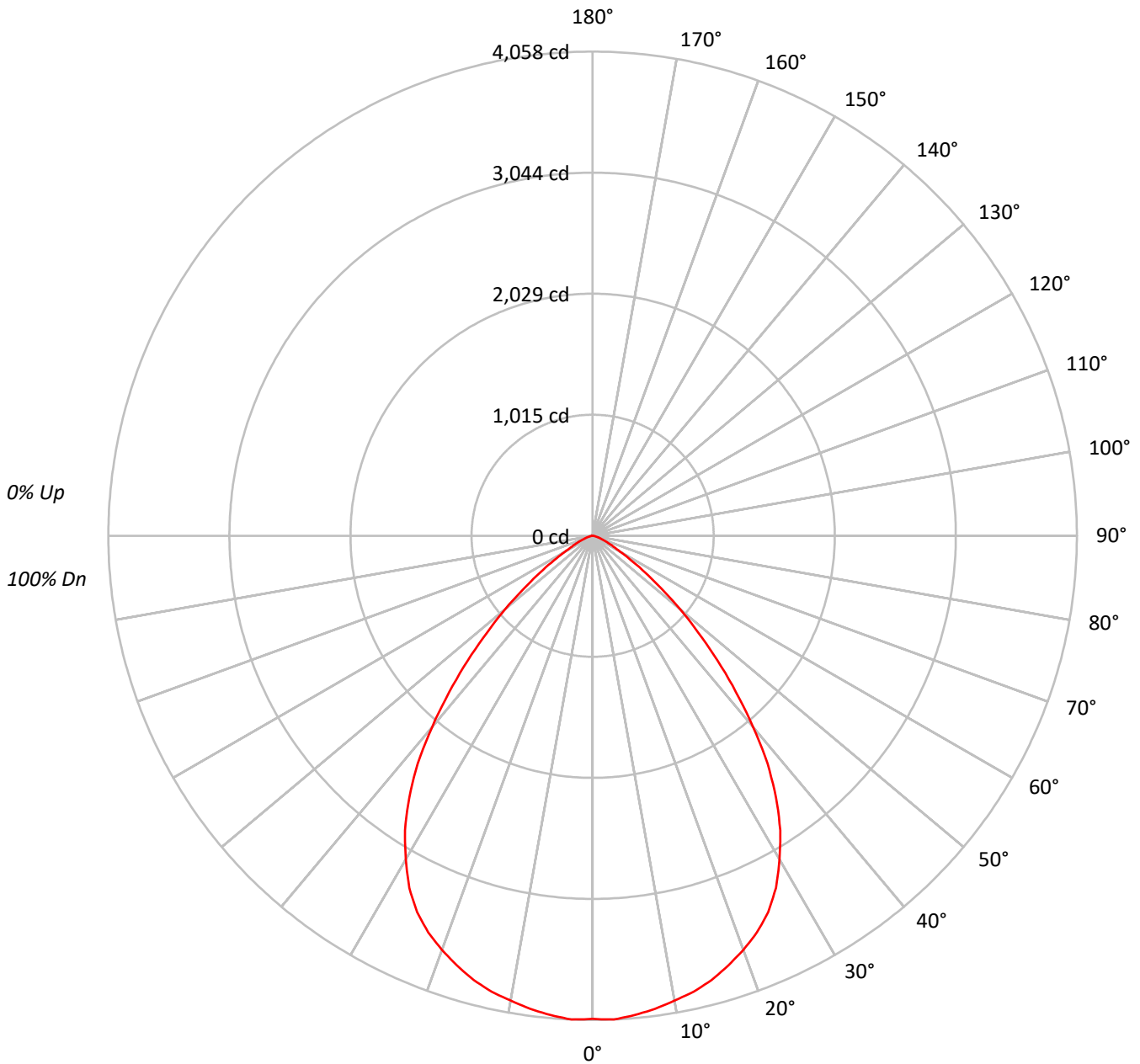
Lumens per Lamp: N/A  
Luminaire Lumens: 6566.0 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	222005
5°	221923
10°	220220
15°	218741
20°	215409
25°	210490
30°	198189
35°	179361
40°	149773
45°	114764
50°	81277
55°	51238
60°	28901
65°	18770
70°	12262
75°	9002
80°	5398
85°	5409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.5	5.8
10°-20°	1085.3	16.5
20°-30°	1591.4	24.2
30°-40°	1656.2	25.2
40°-50°	1145.9	17.5
50°-60°	498.9	7.6
60°-70°	153.0	2.3
70°-80°	45.9	0.7
80°-90°	7.0	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°	3059.2	46.6
0°-40°	4715.4	71.8
0°-60°	6360.1	96.9
0°-90°	6566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6566.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4050	
5°	4033	382
15°	3854	1085
25°	3480	1591
35°	2680	1656
45°	1480	1146
55°	536	499
65°	145	153
75°	42	46
85°	9	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4049.7
2.5°	4058.2
5°	4032.8
7.5°	3998.9
10°	3956.1
12.5°	3913.6
15°	3854.2
17.5°	3777.5
20°	3692.4
22.5°	3598.9
25°	3479.9
27.5°	3326.7
30°	3130.9
32.5°	2926.6
35°	2680.1
37.5°	2407.9
40°	2092.9
42.5°	1778.2
45°	1480.3
47.5°	1199.5
50°	953.0
52.5°	723.3
55°	536.1
57.5°	382.9
60°	263.6
62.5°	195.7
65°	144.7
67.5°	110.7
70°	76.5
72.5°	59.6
75°	42.5
77.5°	25.4
80°	17.1
82.5°	8.6
85°	8.6
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)