

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: P580068

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

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P580068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-90-D010 FEU6C-X-90-50 F6X-N-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

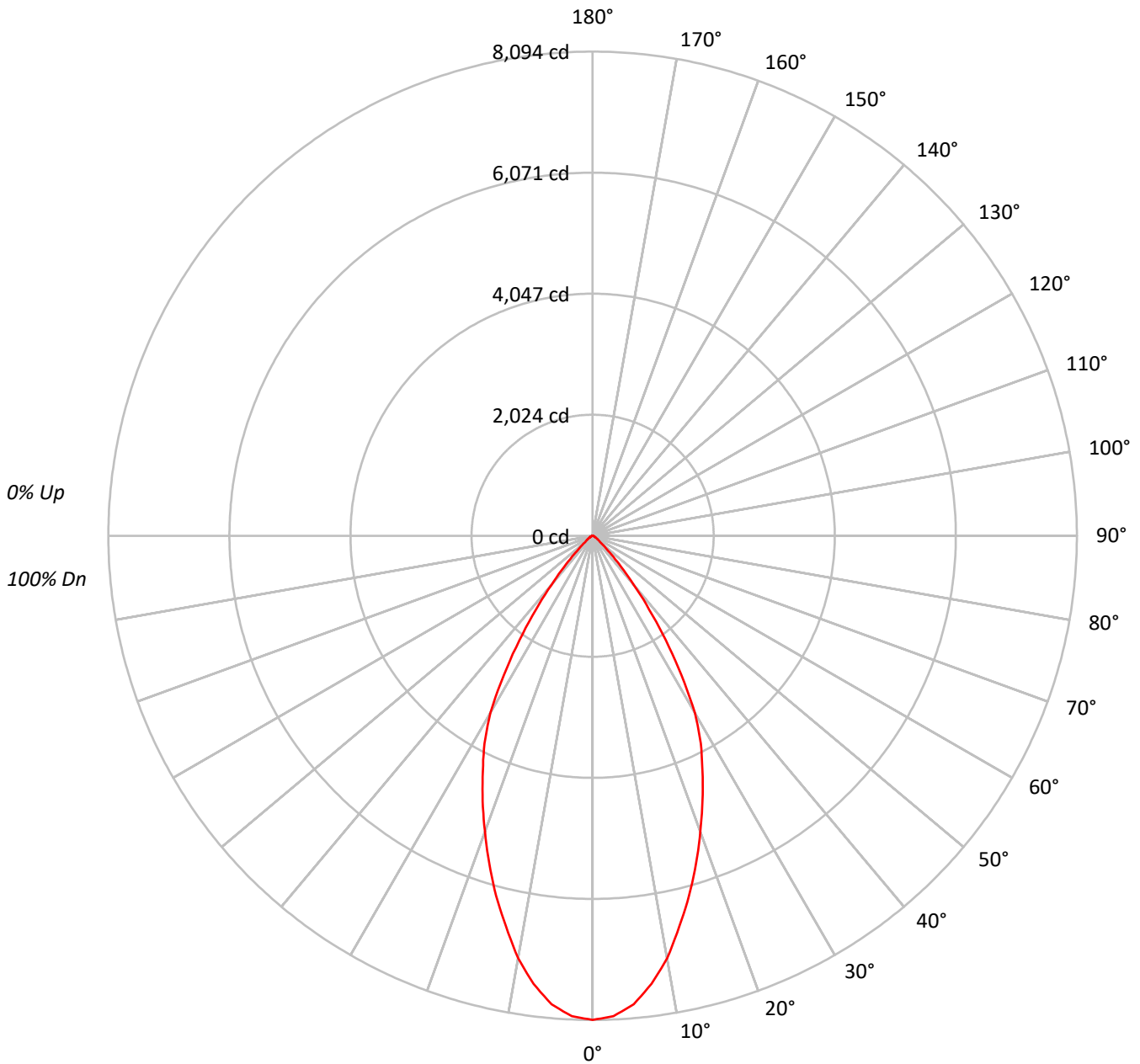
Lumens per Lamp: N/A  
Luminaire Lumens: 6314.0 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 97.1  
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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51			

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

	0°
0°	443709
5°	432731
10°	399286
15°	353504
20°	306942
25°	262539
30°	216451
35°	142539
40°	76622
45°	33926
50°	13756
55°	9921
60°	6304
65°	4501
70°	3719
75°	2457
80°	3662
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	727.9	11.5
10°-20°	1735.7	27.5
20°-30°	1988.5	31.5
30°-40°	1336.0	21.2
40°-50°	381.7	6.0
50°-60°	93.4	1.5
60°-70°	35.5	0.6
70°-80°	13.8	0.2
80°-90°	1.6	0.0
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°	4452.0	70.5
0°-40°	5788.0	91.7
0°-60°	6263.2	99.2
0°-90°	6314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6314.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8094	
5°	7864	728
15°	6229	1736
25°	4340	1988
35°	2130	1336
45°	438	382
55°	104	93
65°	35	36
75°	12	14
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8093.9
2.5°	8036.4
5°	7863.6
7.5°	7552.6
10°	7172.9
12.5°	6689.0
15°	6228.7
17.5°	5745.3
20°	5261.4
22.5°	4801.1
25°	4340.4
27.5°	3914.4
30°	3419.4
32.5°	2763.0
35°	2129.9
37.5°	1554.2
40°	1070.7
42.5°	702.2
45°	437.6
47.5°	264.7
50°	161.3
52.5°	126.6
55°	103.8
57.5°	80.6
60°	57.5
62.5°	45.9
65°	34.7
67.5°	23.2
70°	23.2
72.5°	11.6
75°	11.6
77.5°	11.6
80°	11.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)