

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: P579408

Luminaire Tested: **FLD6C-75-D010 FEU6C-X-90-40 F6X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P579408  
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-75-D010 FEU6C-X-90-40 F6X-N-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

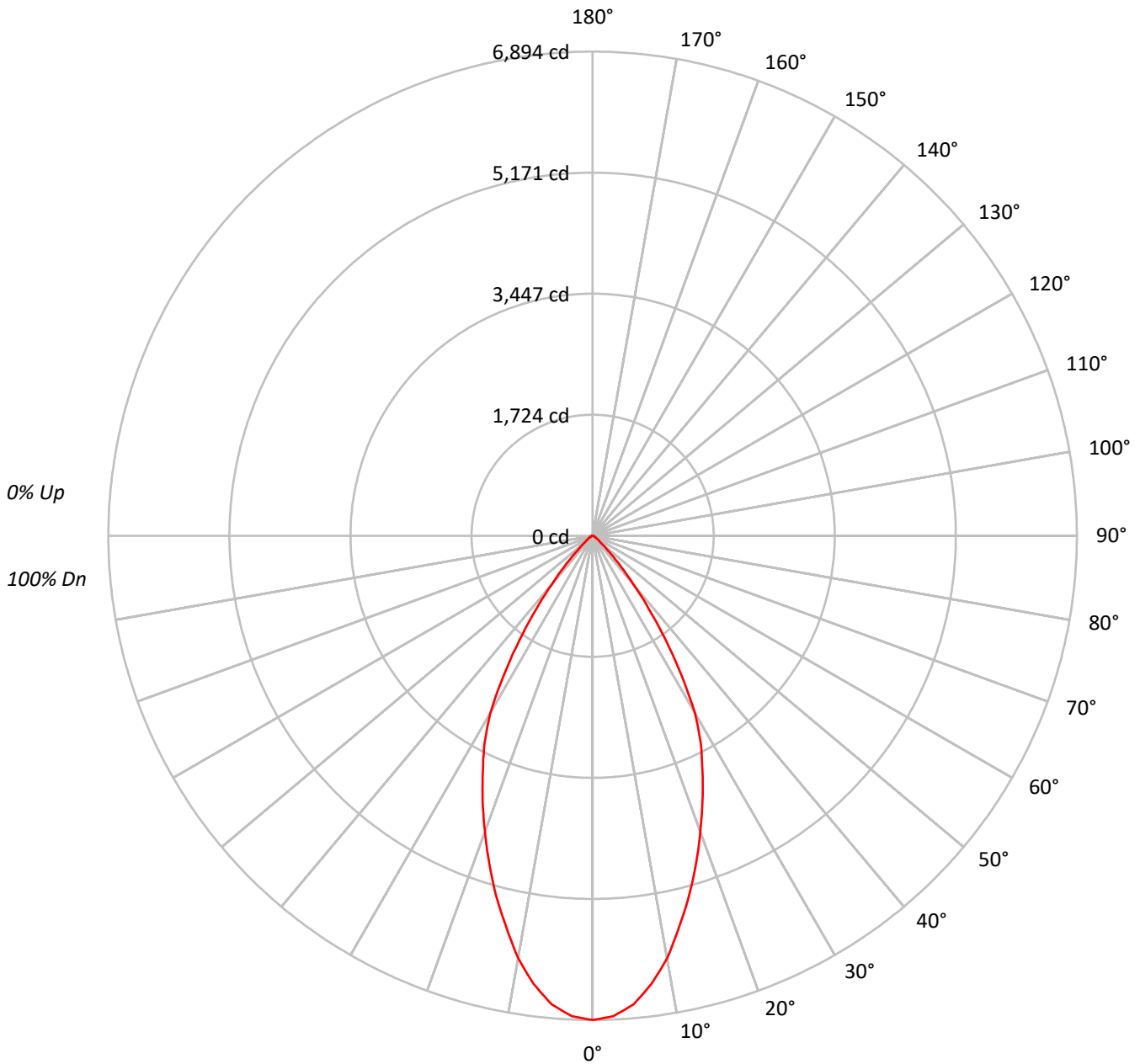
Lumens per Lamp: N/A  
Luminaire Lumens: 5378.0 lumens  
Efficiency: N/A  
Efficacy: 66.0 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 81.5  
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	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°	377936
5°	368577
10°	340096
15°	301103
20°	261438
25°	223622
30°	184364
35°	121405
40°	65265
45°	28894
50°	11718
55°	8449
60°	5372
65°	3840
70°	3158
75°	2097
80°	3125
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	620.0	11.5
10°-20°	1478.4	27.5
20°-30°	1693.7	31.5
30°-40°	1137.9	21.2
40°-50°	325.1	6.0
50°-60°	79.6	1.5
60°-70°	30.3	0.6
70°-80°	11.7	0.2
80°-90°	1.3	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°	3792.1	70.5
0°-40°	4930.0	91.7
0°-60°	5334.7	99.2
0°-90°	5378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5378.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6894	
5°	6698	620
15°	5305	1478
25°	3697	1694
35°	1814	1138
45°	373	325
55°	88	80
65°	30	30
75°	10	12
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6894.1
2.5°	6845.1
5°	6697.8
7.5°	6432.9
10°	6109.6
12.5°	5697.4
15°	5305.4
17.5°	4893.6
20°	4481.4
22.5°	4089.4
25°	3697.0
27.5°	3334.1
30°	2912.5
32.5°	2353.4
35°	1814.1
37.5°	1323.8
40°	912.0
42.5°	598.1
45°	372.7
47.5°	225.4
50°	137.4
52.5°	107.8
55°	88.4
57.5°	68.7
60°	49.0
62.5°	39.1
65°	29.6
67.5°	19.7
70°	19.7
72.5°	9.9
75°	9.9
77.5°	9.9
80°	9.9
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)