

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: P579548

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-27 F6X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P579548  
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-80-D010 FEU6C-X-90-27 F6X-W-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

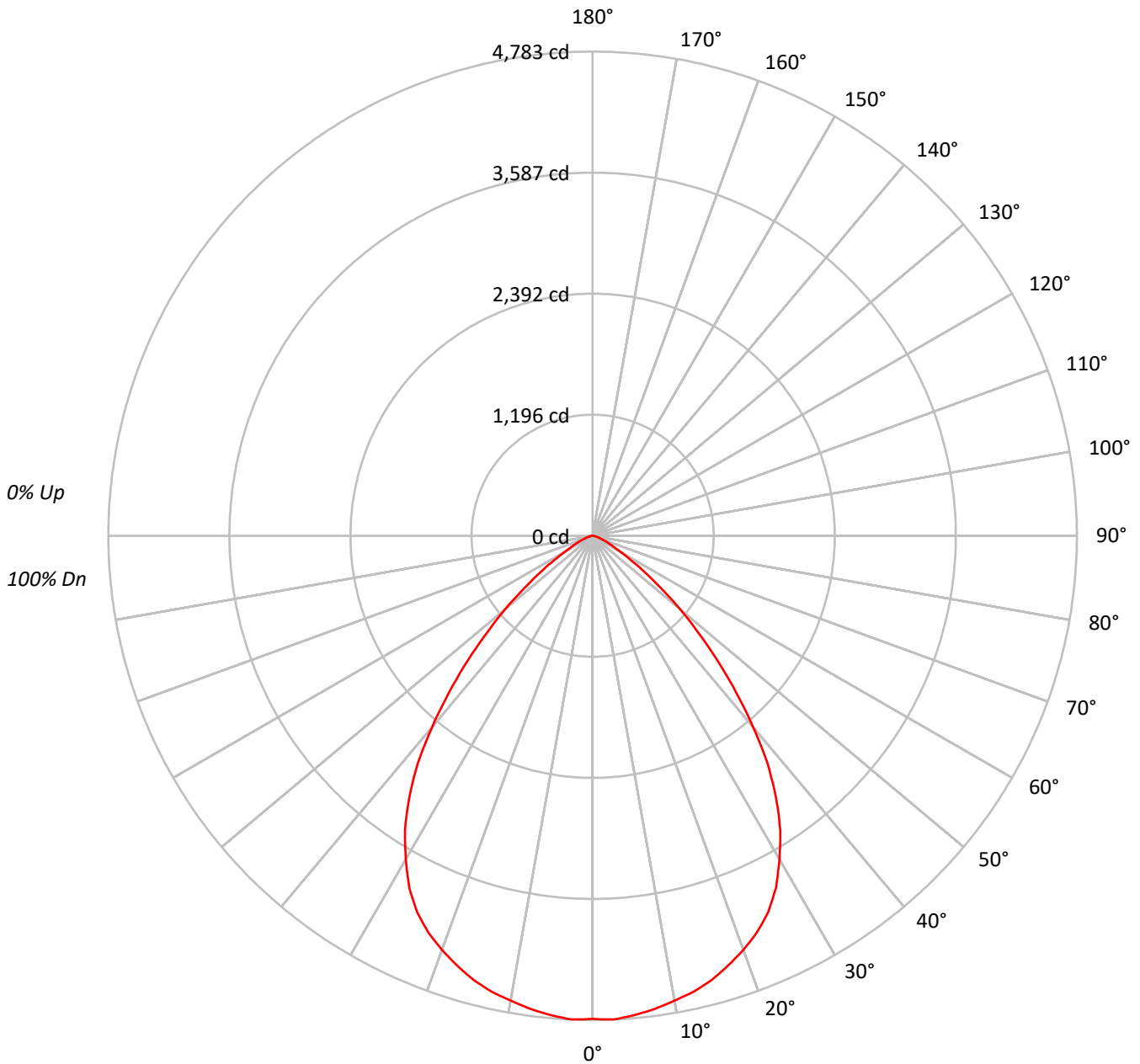
Lumens per Lamp: N/A  
Luminaire Lumens: 7739.0 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 89.5  
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	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°	261662
5°	261572
10°	259559
15°	257822
20°	253895
25°	248095
30°	233593
35°	211403
40°	176531
45°	135262
50°	95801
55°	60395
60°	34065
65°	22117
70°	14442
75°	10612
80°	6377
85°	6353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.8	5.8
10°-20°	1279.2	16.5
20°-30°	1875.7	24.2
30°-40°	1952.1	25.2
40°-50°	1350.5	17.5
50°-60°	588.0	7.6
60°-70°	180.3	2.3
70°-80°	54.0	0.7
80°-90°	8.2	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°	3605.7	46.6
0°-40°	5557.8	71.8
0°-60°	7496.4	96.9
0°-90°	7739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7739.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4773	
5°	4753	451
15°	4543	1279
25°	4102	1876
35°	3159	1952
45°	1745	1351
55°	632	588
65°	170	180
75°	50	54
85°	10	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4773.1
2.5°	4783.2
5°	4753.3
7.5°	4713.3
10°	4662.8
12.5°	4612.7
15°	4542.8
17.5°	4452.3
20°	4352.1
22.5°	4241.8
25°	4101.6
27.5°	3921.0
30°	3690.2
32.5°	3449.4
35°	3158.9
37.5°	2838.1
40°	2466.8
42.5°	2095.8
45°	1744.7
47.5°	1413.8
50°	1123.3
52.5°	852.5
55°	631.9
57.5°	451.3
60°	310.7
62.5°	230.7
65°	170.5
67.5°	130.5
70°	90.1
72.5°	70.3
75°	50.1
77.5°	29.9
80°	20.2
82.5°	10.1
85°	10.1
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)