

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: P578428

Luminaire Tested: **FLD6C-60-D010 FEU6C-X-90-35 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P578428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-60-D010 FEU6C-X-90-35 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

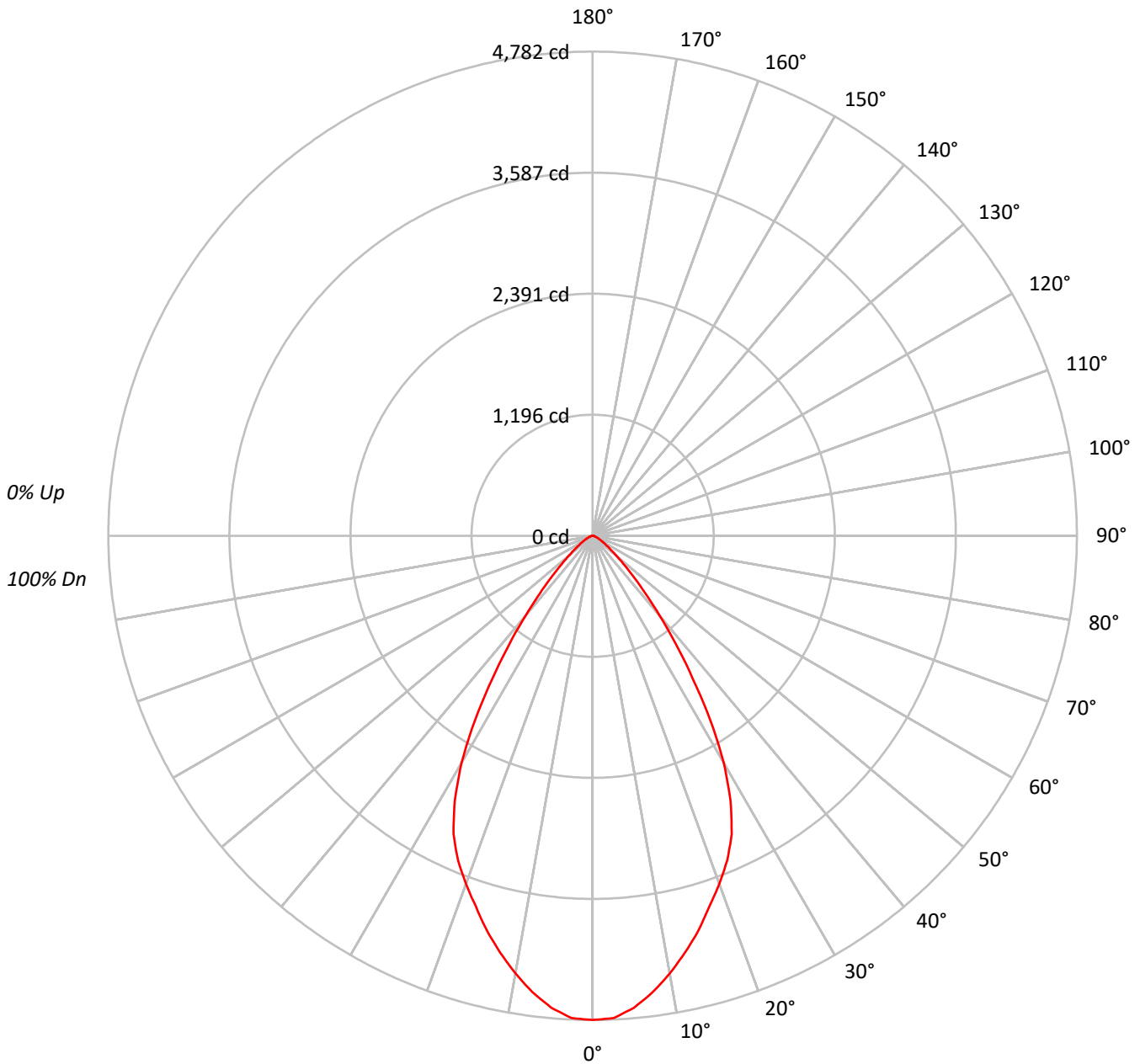
Lumens per Lamp: N/A  
Luminaire Lumens: 4832.0 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 72  
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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85
3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53			53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49			49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46			46

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

	0°
0°	262150
5°	257456
10°	244301
15°	229093
20°	213355
25°	196584
30°	163797
35°	115449
40°	73574
45°	43881
50°	25901
55°	16477
60°	11348
65°	8055
70°	5546
75°	4384
80°	2147
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.2	9.0
10°-20°	1131.1	23.4
20°-30°	1465.6	30.3
30°-40°	1088.1	22.5
40°-50°	459.4	9.5
50°-60°	163.1	3.4
60°-70°	63.0	1.3
70°-80°	21.8	0.5
80°-90°	2.8	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°	3033.9	62.8
0°-40°	4122.0	85.3
0°-60°	4744.5	98.2
0°-90°	4832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4832.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4782	
5°	4678	437
15°	4037	1131
25°	3250	1466
35°	1725	1088
45°	566	459
55°	172	163
65°	62	63
75°	21	22
85°	0	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4782.0
2.5°	4768.1
5°	4678.5
7.5°	4547.2
10°	4388.7
12.5°	4216.1
15°	4036.6
17.5°	3836.7
20°	3657.2
22.5°	3470.9
25°	3250.0
27.5°	2946.3
30°	2587.6
32.5°	2166.6
35°	1725.1
37.5°	1352.5
40°	1028.1
42.5°	765.9
45°	566.0
47.5°	414.0
50°	303.7
52.5°	227.7
55°	172.4
57.5°	131.0
60°	103.5
62.5°	76.0
65°	62.1
67.5°	48.2
70°	34.6
72.5°	27.5
75°	20.7
77.5°	13.9
80°	6.8
82.5°	6.8
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)