

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: P575908

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-27 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P575908  
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-20-D010 FEU6C-X-90-27 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

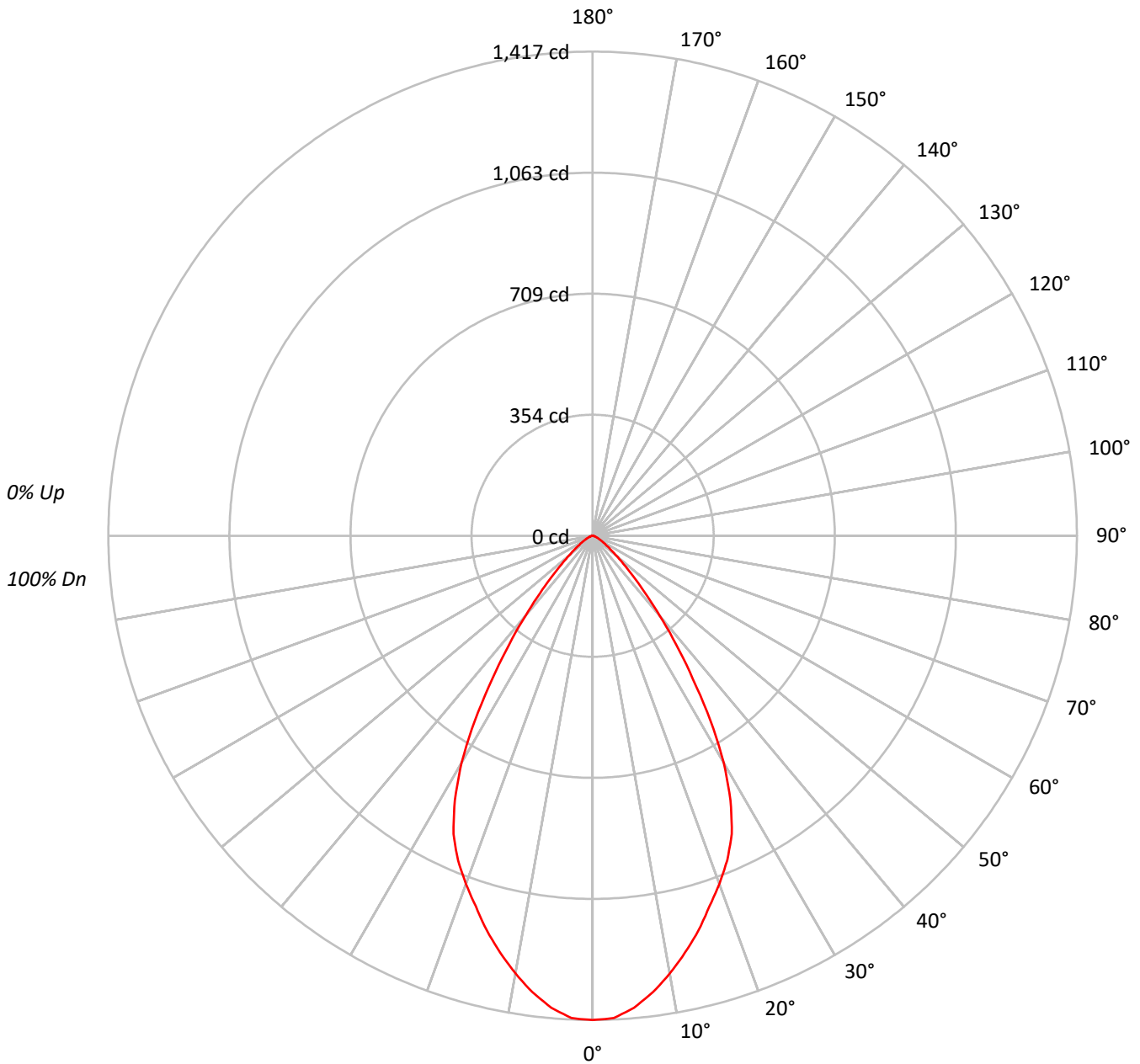
Lumens per Lamp: N/A  
Luminaire Lumens: 1432.0 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.8  
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									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	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	99	97	97	95	94	92	92	92	92	92																
	1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92	92	92	92	92	92	92	92	92																
	2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85	85	85	85	85	85	85	85	85	85																
	3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78	78	78	78	78	78	78	78	78	78	78	78																
	4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72	72	72	72	72	72	72	72	72	72															
	5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66	66	66	66	66	66	66	66	66	66															
	6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61	61	61	61	61	61	61	61	61	61	61	61	61															
	7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57	57	57	57	57	57	57	57	57	57	57	57	57															
	8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53	53	53	53	53	53	53	53	53	53	53	53	53															
	9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49	49	49	49	49	49	49	49	49	49	49	49	49															
	10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46	46	46	46	46	46	46	46	46	46	46	46	46															

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

	0°
0°	77691
5°	76299
10°	72399
15°	67895
20°	63227
25°	58261
30°	48545
35°	34211
40°	21805
45°	13001
50°	7676
55°	4884
60°	3366
65°	2387
70°	1651
75°	1292
80°	631
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.6	9.0
10°-20°	335.2	23.4
20°-30°	434.4	30.3
30°-40°	322.5	22.5
40°-50°	136.1	9.5
50°-60°	48.3	3.4
60°-70°	18.7	1.3
70°-80°	6.5	0.5
80°-90°	0.8	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°	899.1	62.8
0°-40°	1221.6	85.3
0°-60°	1406.1	98.2
0°-90°	1432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1432.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1417	
5°	1386	130
15°	1196	335
25°	963	434
35°	511	322
45°	168	136
55°	51	48
65°	18	19
75°	6	6
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1417.2
2.5°	1413.1
5°	1386.5
7.5°	1347.6
10°	1300.6
12.5°	1249.5
15°	1196.3
17.5°	1137.0
20°	1083.8
22.5°	1028.6
25°	963.2
27.5°	873.2
30°	766.9
32.5°	642.1
35°	511.2
37.5°	400.8
40°	304.7
42.5°	227.0
45°	167.7
47.5°	122.7
50°	90.0
52.5°	67.5
55°	51.1
57.5°	38.8
60°	30.7
62.5°	22.5
65°	18.4
67.5°	14.3
70°	10.3
72.5°	8.2
75°	6.1
77.5°	4.1
80°	2.0
82.5°	2.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)