

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: P577048

Luminaire Tested: **FLD6C-35-D010 FEU6C-X-90-50 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P577048  
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-35-D010 FEU6C-X-90-50 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

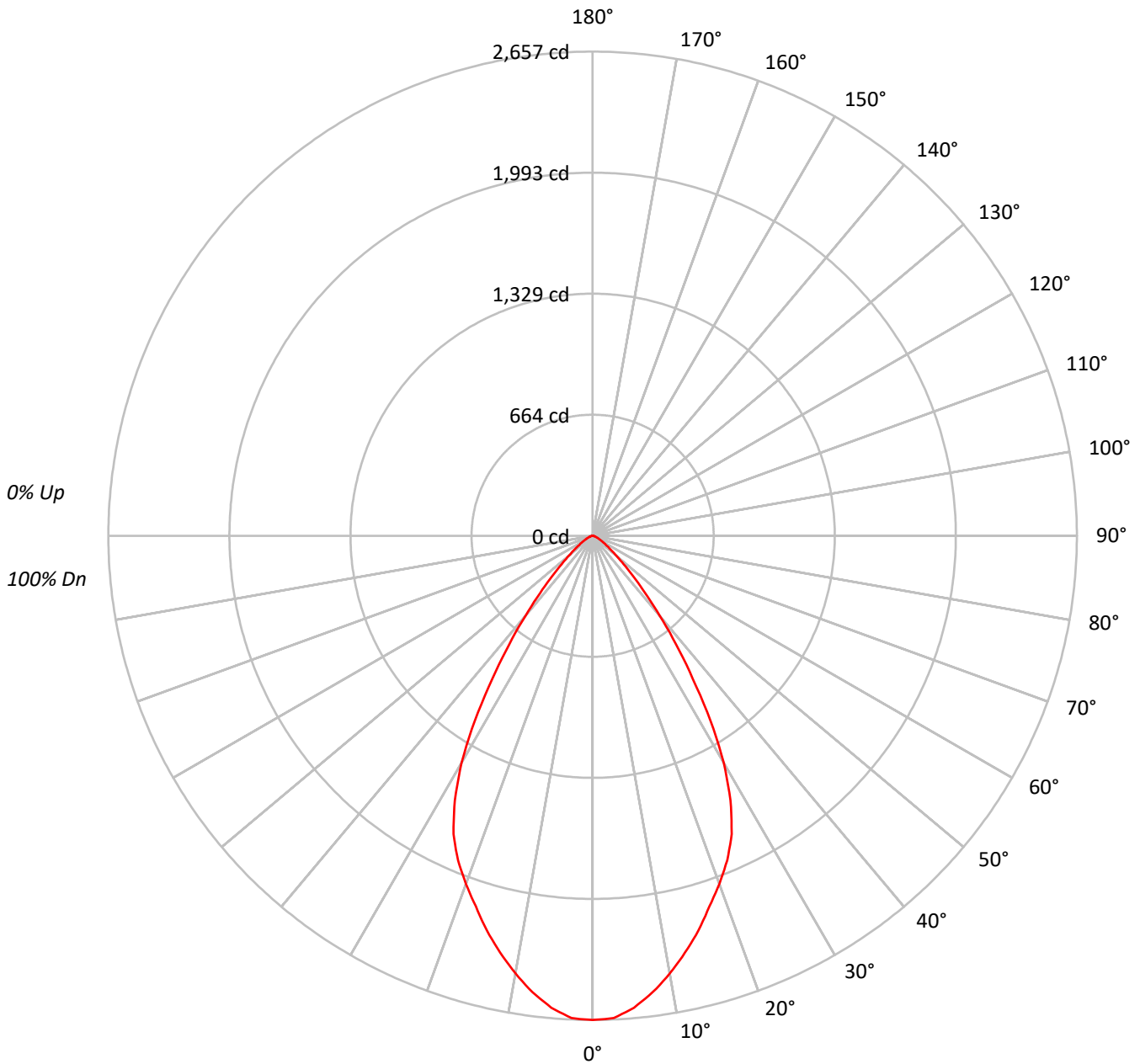
Lumens per Lamp: N/A  
Luminaire Lumens: 2685.0 lumens  
Efficiency: N/A  
Efficacy: 66.5 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.4  
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	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°	145668
5°	143060
10°	135752
15°	127299
20°	118555
25°	109234
30°	91020
35°	64152
40°	40884
45°	24382
50°	14388
55°	9156
60°	6304
65°	4475
70°	3077
75°	2436
80°	1200
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.0	9.0
10°-20°	628.5	23.4
20°-30°	814.4	30.3
30°-40°	604.6	22.5
40°-50°	255.2	9.5
50°-60°	90.6	3.4
60°-70°	35.0	1.3
70°-80°	12.1	0.5
80°-90°	1.5	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°	1685.9	62.8
0°-40°	2290.5	85.3
0°-60°	2636.4	98.2
0°-90°	2685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2685.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2657	
5°	2600	243
15°	2243	629
25°	1806	814
35°	959	605
45°	314	255
55°	96	91
65°	34	35
75°	12	12
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2657.2
2.5°	2649.5
5°	2599.7
7.5°	2526.8
10°	2438.7
12.5°	2342.7
15°	2243.0
17.5°	2131.9
20°	2032.2
22.5°	1928.7
25°	1805.9
27.5°	1637.2
30°	1437.9
32.5°	1203.9
35°	958.6
37.5°	751.6
40°	571.3
42.5°	425.6
45°	314.5
47.5°	230.0
50°	168.7
52.5°	126.5
55°	95.8
57.5°	72.8
60°	57.5
62.5°	42.2
65°	34.5
67.5°	26.8
70°	19.2
72.5°	15.3
75°	11.5
77.5°	7.7
80°	3.8
82.5°	3.8
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)