

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: P576988

Luminaire Tested: **FLD6C-35-D010 FEU6C-X-90-40 F6X-M-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P576988  
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-90-40 F6X-M-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

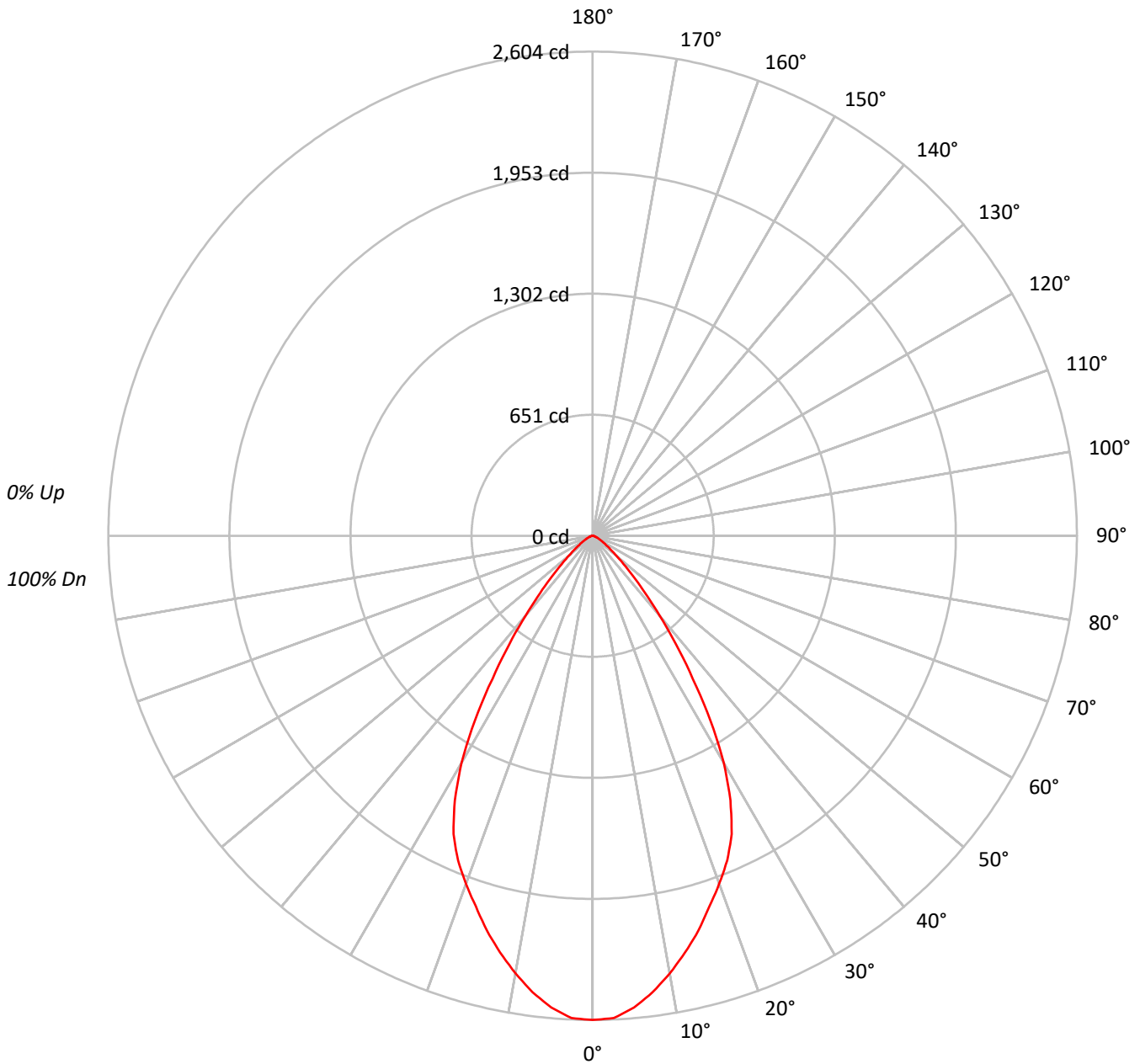
Lumens per Lamp: N/A  
Luminaire Lumens: 2631.0 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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								
RC	80									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	85	85																
	1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	85	85	87	87	85	82	80	78	78																
	2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	82	80	78	78	75	72	72	66	66																
	3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78	78	75	72	72	66	66	63	61	61	57																
	4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	66	66	63	61	57	57	53	53	49																
	5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	63	61	57	57	53	49	49	45	45																
	6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61	61	57	57	53	49	49	45	45	41	41																
	7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57	57	53	49	49	45	41	41	37	37	33	33															
	8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53	53	49	45	41	37	37	33	29	29	25	25															
	9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49	49	45	41	37	33	29	29	25	21	21	17	17														
	10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46	46	41	37	33	29	25	21	17	17	13	13															

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

	0°
0°	142741
5°	140182
10°	133019
15°	124740
20°	116169
25°	107038
30°	89191
35°	62861
40°	40061
45°	23894
50°	14106
55°	8975
60°	6184
65°	4384
70°	3013
75°	2393
80°	1168
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.1	9.0
10°-20°	615.9	23.4
20°-30°	798.0	30.3
30°-40°	592.5	22.5
40°-50°	250.1	9.5
50°-60°	88.8	3.4
60°-70°	34.3	1.3
70°-80°	11.9	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°	1652.0	62.8
0°-40°	2244.4	85.3
0°-60°	2583.4	98.2
0°-90°	2631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2631.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2604	
5°	2547	238
15°	2198	616
25°	1770	798
35°	939	592
45°	308	250
55°	94	89
65°	34	34
75°	11	12
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2603.8
2.5°	2596.2
5°	2547.4
7.5°	2476.0
10°	2389.6
12.5°	2295.6
15°	2197.9
17.5°	2089.0
20°	1991.3
22.5°	1889.9
25°	1769.6
27.5°	1604.3
30°	1409.0
32.5°	1179.7
35°	939.3
37.5°	736.4
40°	559.8
42.5°	417.0
45°	308.2
47.5°	225.4
50°	165.4
52.5°	124.0
55°	93.9
57.5°	71.3
60°	56.4
62.5°	41.4
65°	33.8
67.5°	26.2
70°	18.8
72.5°	15.0
75°	11.3
77.5°	7.6
80°	3.7
82.5°	3.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)