

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: P577398

Luminaire Tested: **FLD6C-40-D010 FEU6C-X-90-50 F6X-W-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P577398  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-40-D010 FEU6C-X-90-50 F6X-W-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

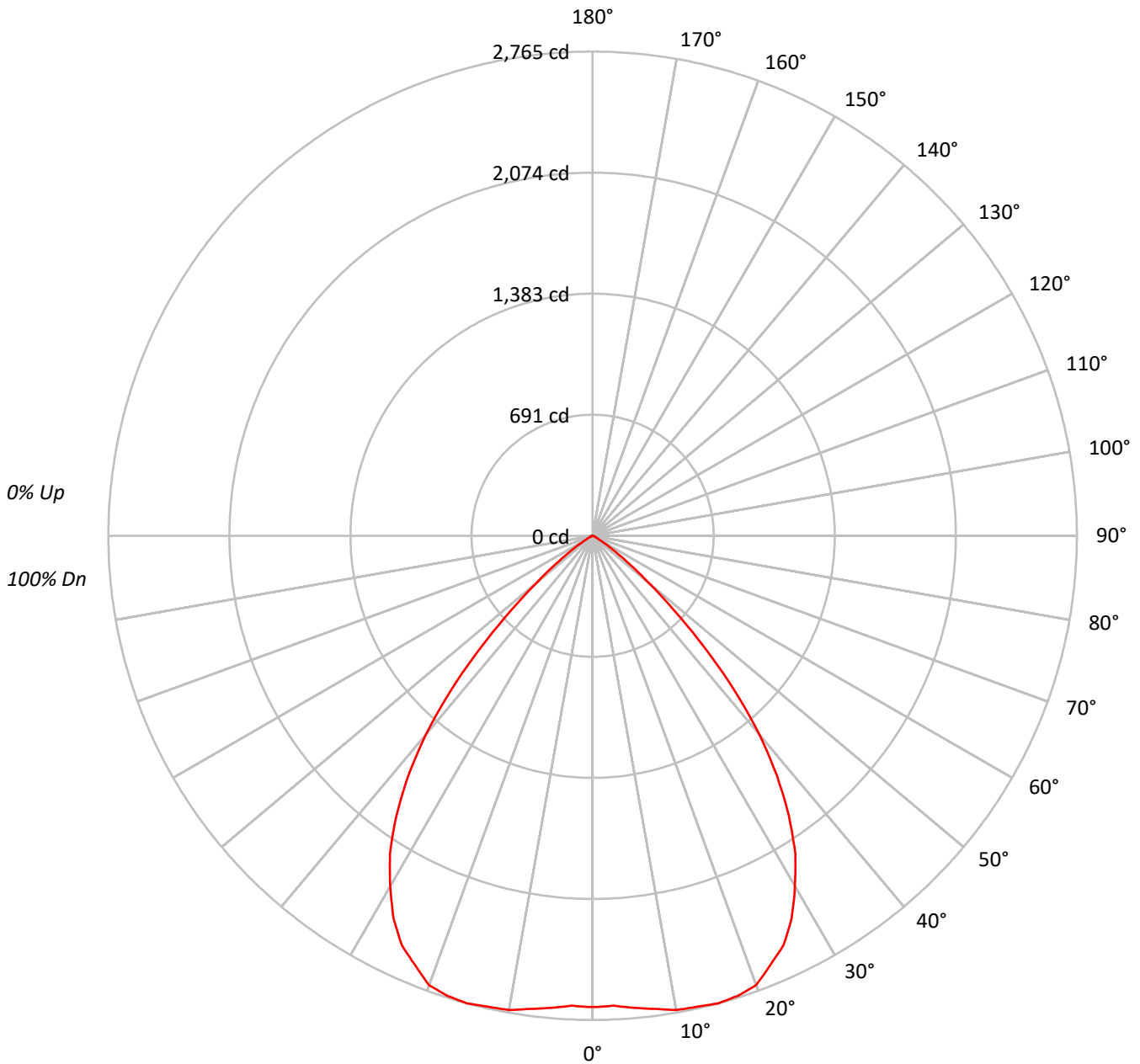
Lumens per Lamp: N/A  
Luminaire Lumens: 4308.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (Ain): 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	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			83
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76			76
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69			69
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63			63
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57			57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			48
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44			44
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41			41

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

	0°
0°	147538
5°	148905
10°	153070
15°	156902
20°	159281
25°	155991
30°	146250
35°	130754
40°	105906
45°	70062
50°	35410
55°	14939
60°	4813
65°	1894
70°	1571
75°	1038
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.6	6.0
10°-20°	780.4	18.1
20°-30°	1176.4	27.3
30°-40°	1204.0	27.9
40°-50°	701.4	16.3
50°-60°	161.2	3.7
60°-70°	19.8	0.5
70°-80°	5.2	0.1
80°-90°	0.0	0.0
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°	2216.4	51.4
0°-40°	3420.4	79.4
0°-60°	4283.0	99.4
0°-90°	4308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4308.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2691	
5°	2706	260
15°	2765	780
25°	2579	1176
35°	1954	1204
45°	904	701
55°	156	161
65°	15	20
75°	5	5
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2691.3
2.5°	2686.4
5°	2705.9
7.5°	2725.4
10°	2749.8
12.5°	2754.7
15°	2764.6
17.5°	2754.7
20°	2730.3
22.5°	2652.2
25°	2578.9
27.5°	2461.8
30°	2310.4
32.5°	2154.0
35°	1953.8
37.5°	1729.0
40°	1479.9
42.5°	1201.5
45°	903.7
47.5°	630.0
50°	415.2
52.5°	263.8
55°	156.3
57.5°	83.1
60°	43.9
62.5°	24.4
65°	14.6
67.5°	14.6
70°	9.8
72.5°	4.9
75°	4.9
77.5°	4.9
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)