

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: P578538

Luminaire Tested: **FLD6C-60-D010 FEU6C-X-90-40 F6X-W-X-LI**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P578538  
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-60-D010 FEU6C-X-90-40 F6X-W-X-LI  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

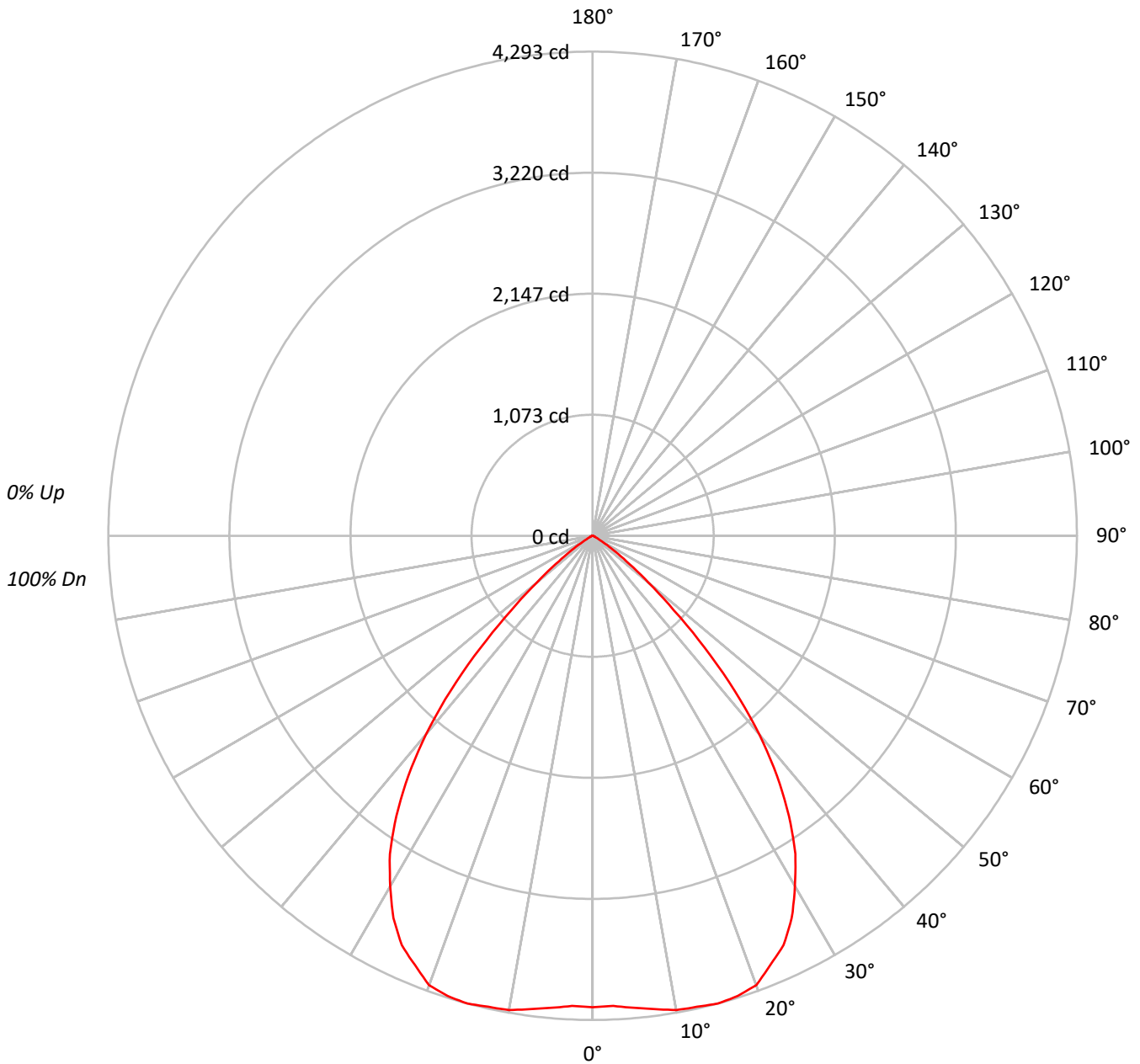
Lumens per Lamp: N/A  
Luminaire Lumens: 6690.0 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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									
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	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°	229115
5°	231240
10°	237704
15°	243656
20°	247355
25°	242246
30°	227111
35°	203051
40°	164465
45°	108794
50°	54992
55°	23206
60°	7477
65°	2932
70°	2452
75°	1610
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.2	6.0
10°-20°	1211.9	18.1
20°-30°	1826.8	27.3
30°-40°	1869.8	27.9
40°-50°	1089.3	16.3
50°-60°	250.3	3.7
60°-70°	30.7	0.5
70°-80°	8.0	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°	3441.8	51.4
0°-40°	5311.6	79.4
0°-60°	6651.3	99.4
0°-90°	6690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6690.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4179	
5°	4202	403
15°	4293	1212
25°	4005	1827
35°	3034	1870
45°	1403	1089
55°	243	250
65°	23	31
75°	8	8
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4179.4
2.5°	4171.8
5°	4202.1
7.5°	4232.3
10°	4270.2
12.5°	4277.9
15°	4293.2
17.5°	4277.9
20°	4240.0
22.5°	4118.6
25°	4004.9
27.5°	3822.9
30°	3587.8
32.5°	3345.1
35°	3034.1
37.5°	2685.0
40°	2298.2
42.5°	1865.9
45°	1403.3
47.5°	978.4
50°	644.8
52.5°	409.7
55°	242.8
57.5°	129.0
60°	68.2
62.5°	37.9
65°	22.6
67.5°	22.6
70°	15.3
72.5°	7.6
75°	7.6
77.5°	7.6
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)