

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: P576068

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-35 F6X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P576068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)  
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-90-35 F6X-W-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

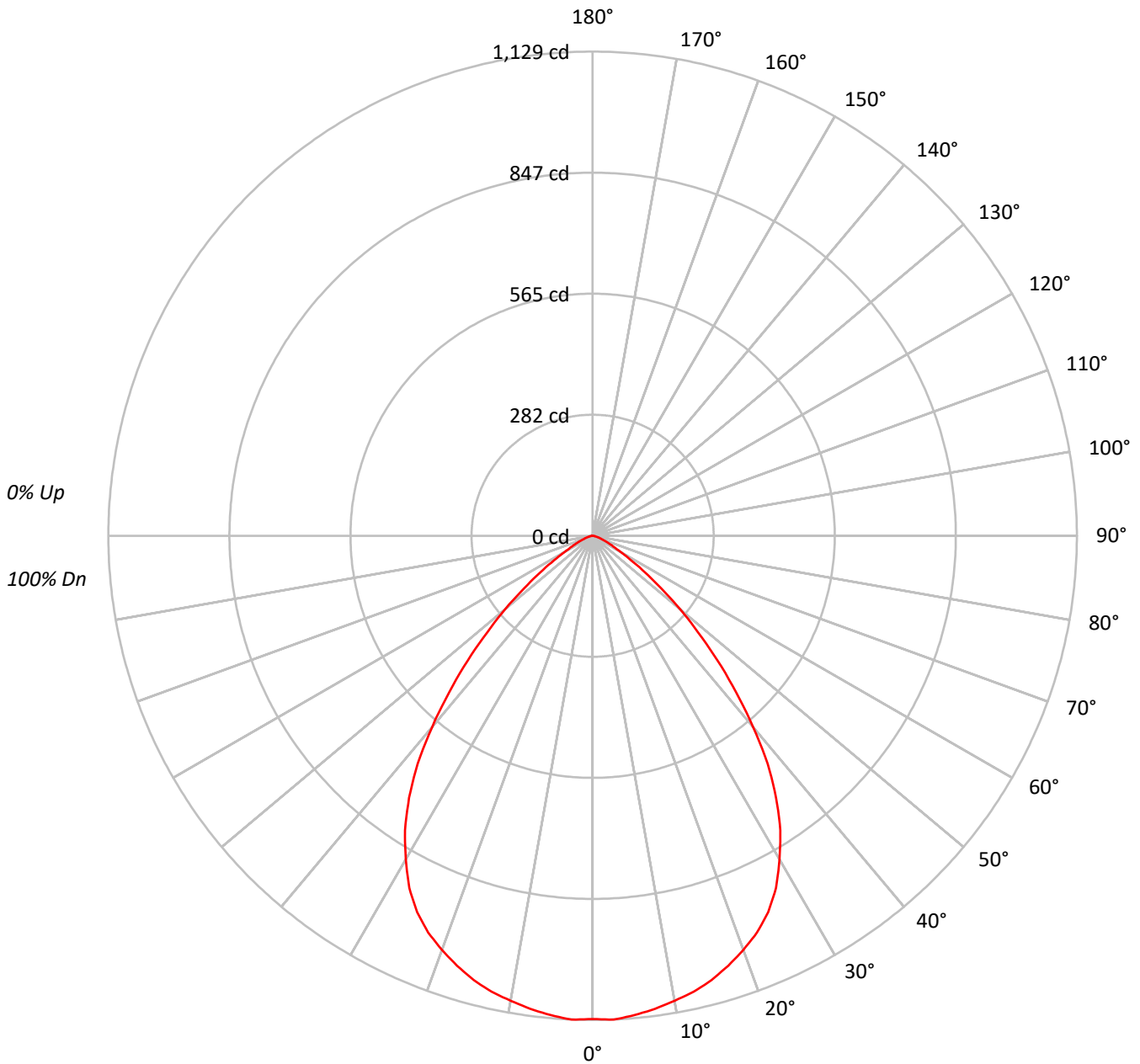
Lumens per Lamp: N/A  
Luminaire Lumens: 1827.1 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91				91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81				81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73				73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65				65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59				59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53				53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49				49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41				41
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38				38

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

	0°
0°	61771
5°	61749
10°	61277
15°	60863
20°	59937
25°	58570
30°	55148
35°	49905
40°	41671
45°	31934
50°	22618
55°	14260
60°	8048
65°	5228
70°	3414
75°	2499
80°	1515
85°	1510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.4	5.8
10°-20°	302.0	16.5
20°-30°	442.8	24.2
30°-40°	460.8	25.2
40°-50°	318.8	17.5
50°-60°	138.8	7.6
60°-70°	42.6	2.3
70°-80°	12.8	0.7
80°-90°	2.0	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°	851.2	46.6
0°-40°	1312.0	71.8
0°-60°	1769.7	96.9
0°-90°	1827.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1827.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1127	
5°	1122	106
15°	1072	302
25°	968	443
35°	746	461
45°	412	319
55°	149	139
65°	40	43
75°	12	13
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1126.8
2.5°	1129.2
5°	1122.1
7.5°	1112.7
10°	1100.8
12.5°	1089.0
15°	1072.4
17.5°	1051.1
20°	1027.4
22.5°	1001.4
25°	968.3
27.5°	925.6
30°	871.2
32.5°	814.3
35°	745.7
37.5°	670.0
40°	582.3
42.5°	494.8
45°	411.9
47.5°	333.8
50°	265.2
52.5°	201.3
55°	149.2
57.5°	106.5
60°	73.4
62.5°	54.5
65°	40.3
67.5°	30.8
70°	21.3
72.5°	16.6
75°	11.8
77.5°	7.1
80°	4.8
82.5°	2.4
85°	2.4
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)