

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: P576528

Luminaire Tested: **FLD6C-30-D010 FEU6C-X-90-27 F6X-N-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P576528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6C-30-D010 FEU6C-X-90-27 F6X-N-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

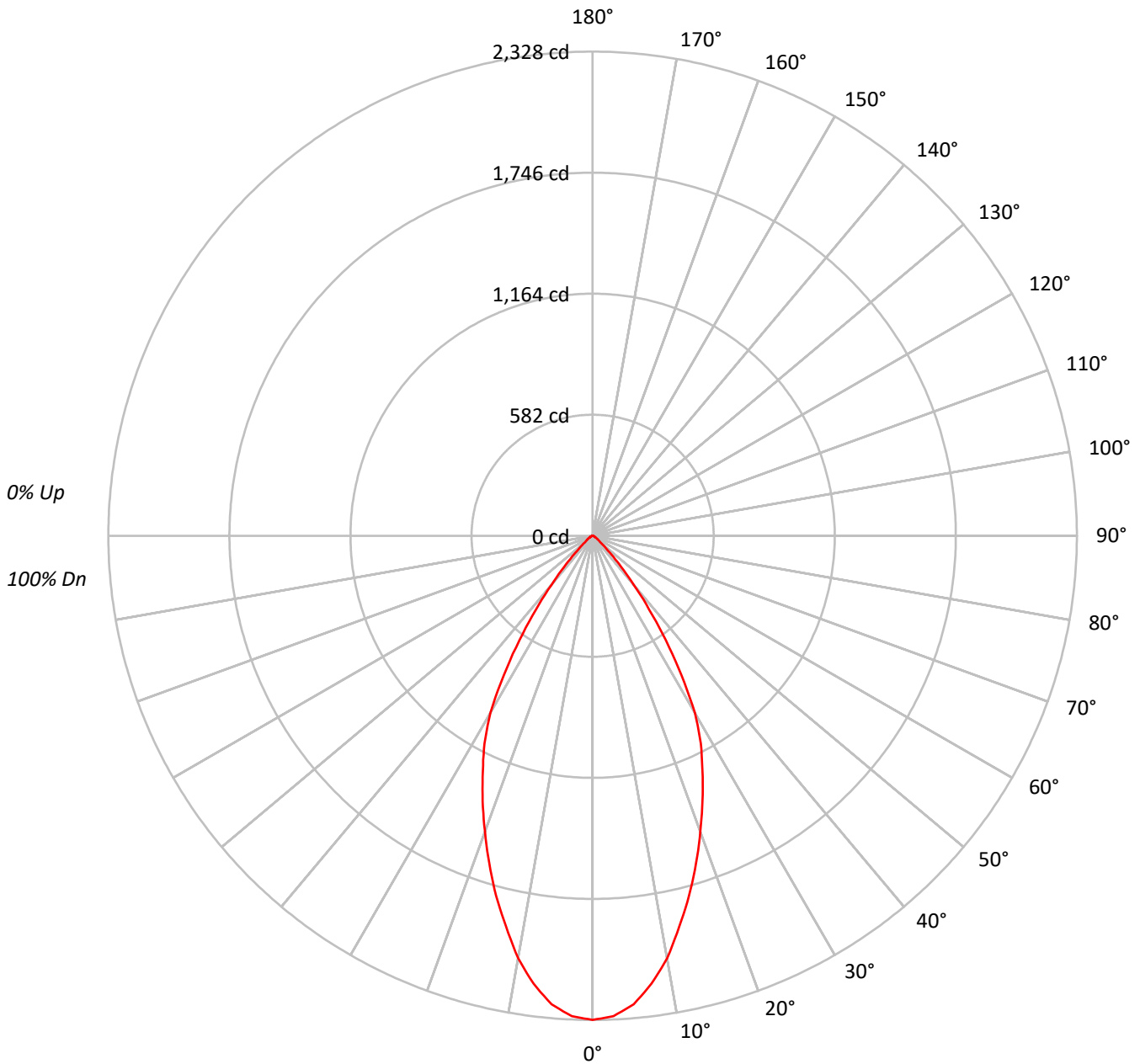
Lumens per Lamp: N/A  
Luminaire Lumens: 1816.0 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.6  
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	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93				93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87				87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81				81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75				75
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70				70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65				65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61				61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58				58
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54				54
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51				51

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

	0°
0°	127616
5°	124460
10°	114839
15°	101675
20°	88284
25°	75512
30°	62256
35°	40997
40°	22041
45°	9753
50°	3957
55°	2858
60°	1809
65°	1297
70°	1074
75°	699
80°	1042
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.3	11.5
10°-20°	499.2	27.5
20°-30°	571.9	31.5
30°-40°	384.3	21.2
40°-50°	109.8	6.0
50°-60°	26.9	1.5
60°-70°	10.2	0.6
70°-80°	3.9	0.2
80°-90°	0.4	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°	1280.5	70.5
0°-40°	1664.7	91.7
0°-60°	1801.4	99.2
0°-90°	1816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2328	
5°	2262	209
15°	1792	499
25°	1248	572
35°	613	384
45°	126	110
55°	30	27
65°	10	10
75°	3	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2327.9
2.5°	2311.4
5°	2261.7
7.5°	2172.2
10°	2063.0
12.5°	1923.9
15°	1791.5
17.5°	1652.4
20°	1513.3
22.5°	1380.9
25°	1248.4
27.5°	1125.8
30°	983.5
32.5°	794.7
35°	612.6
37.5°	447.0
40°	308.0
42.5°	202.0
45°	125.8
47.5°	76.1
50°	46.4
52.5°	36.4
55°	29.9
57.5°	23.2
60°	16.5
62.5°	13.2
65°	10.0
67.5°	6.7
70°	6.7
72.5°	3.3
75°	3.3
77.5°	3.3
80°	3.3
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)