

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: P579728

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-40 F6X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P579728  
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-80-D010 FEU6C-X-90-40 F6X-W-X-H  
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

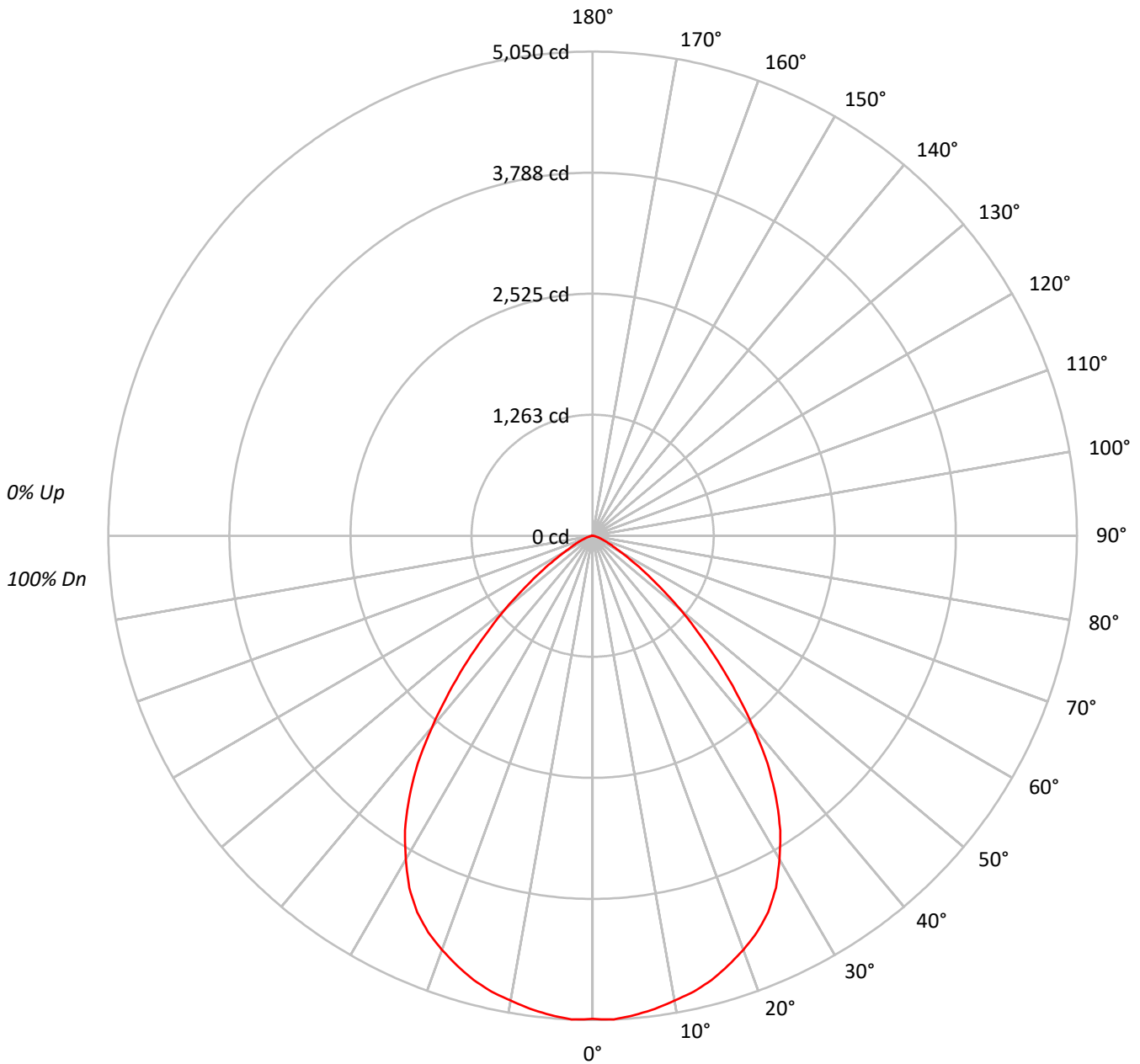
Lumens per Lamp: N/A  
Luminaire Lumens: 8171.0 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 89.5  
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				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°	276272
5°	276171
10°	274049
15°	272215
20°	268065
25°	261941
30°	246633
35°	223202
40°	186385
45°	142813
50°	101148
55°	63768
60°	35973
65°	23349
70°	15259
75°	11205
80°	6724
85°	6730



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.0	5.8
10°-20°	1350.6	16.5
20°-30°	1980.3	24.2
30°-40°	2061.0	25.2
40°-50°	1425.9	17.5
50°-60°	620.9	7.6
60°-70°	190.4	2.3
70°-80°	57.1	0.7
80°-90°	8.7	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°	3807.0	46.6
0°-40°	5868.0	71.8
0°-60°	7914.8	96.9
0°-90°	8171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5040	
5°	5019	476
15°	4796	1351
25°	4330	1980
35°	3335	2061
45°	1842	1426
55°	667	621
65°	180	190
75°	53	57
85°	11	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5039.6
2.5°	5050.2
5°	5018.6
7.5°	4976.4
10°	4923.1
12.5°	4870.2
15°	4796.4
17.5°	4700.8
20°	4595.0
22.5°	4478.6
25°	4330.5
27.5°	4139.8
30°	3896.2
32.5°	3642.0
35°	3335.2
37.5°	2996.5
40°	2604.5
42.5°	2212.8
45°	1842.1
47.5°	1492.7
50°	1186.0
52.5°	900.1
55°	667.2
57.5°	476.5
60°	328.1
62.5°	243.6
65°	180.0
67.5°	137.8
70°	95.2
72.5°	74.2
75°	52.9
77.5°	31.6
80°	21.3
82.5°	10.7
85°	10.7
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)