

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: P578948

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-27 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578948
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-70-D010 FEU6C-X-90-27 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

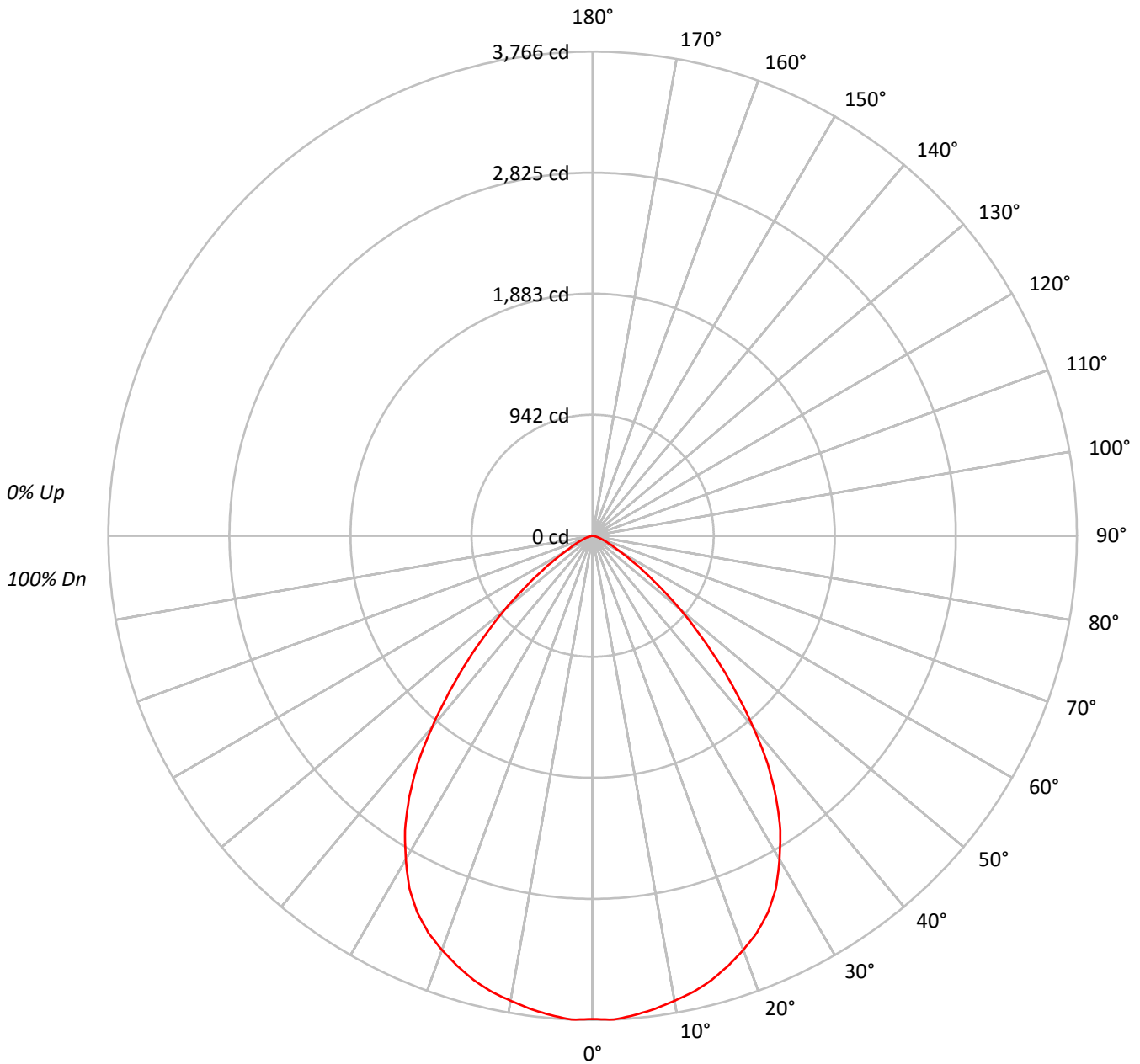
Lumens per Lamp: N/A
Luminaire Lumens: 6094.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	206047
5°	205970
10°	204388
15°	203020
20°	199926
25°	195356
30°	183940
35°	166464
40°	139003
45°	106515
50°	75435
55°	47559
60°	26829
65°	17421
70°	11380
75°	8366
80°	5020
85°	4969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.0	5.8
10°-20°	1007.3	16.5
20°-30°	1477.0	24.2
30°-40°	1537.1	25.2
40°-50°	1063.5	17.5
50°-60°	463.0	7.6
60°-70°	142.0	2.3
70°-80°	42.6	0.7
80°-90°	6.5	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°	2839.3	46.6
0°-40°	4376.4	71.8
0°-60°	5902.9	96.9
0°-90°	6094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6094.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3759	
5°	3743	355
15°	3577	1007
25°	3230	1477
35°	2487	1537
45°	1374	1063
55°	498	463
65°	134	142
75°	40	43
85°	8	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3758.6
2.5°	3766.5
5°	3742.9
7.5°	3711.4
10°	3671.7
12.5°	3632.2
15°	3577.2
17.5°	3505.9
20°	3427.0
22.5°	3340.2
25°	3229.7
27.5°	3087.5
30°	2905.8
32.5°	2716.2
35°	2487.4
37.5°	2234.8
40°	1942.4
42.5°	1650.3
45°	1373.9
47.5°	1113.3
50°	884.5
52.5°	671.3
55°	497.6
57.5°	355.4
60°	244.7
62.5°	181.7
65°	134.3
67.5°	102.8
70°	71.0
72.5°	55.4
75°	39.5
77.5°	23.6
80°	15.9
82.5°	7.9
85°	7.9
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)