

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: P577768

Luminaire Tested: **FLD6C-50-D010 FEU6C-X-90-30 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-50-D010 FEU6C-X-90-30 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

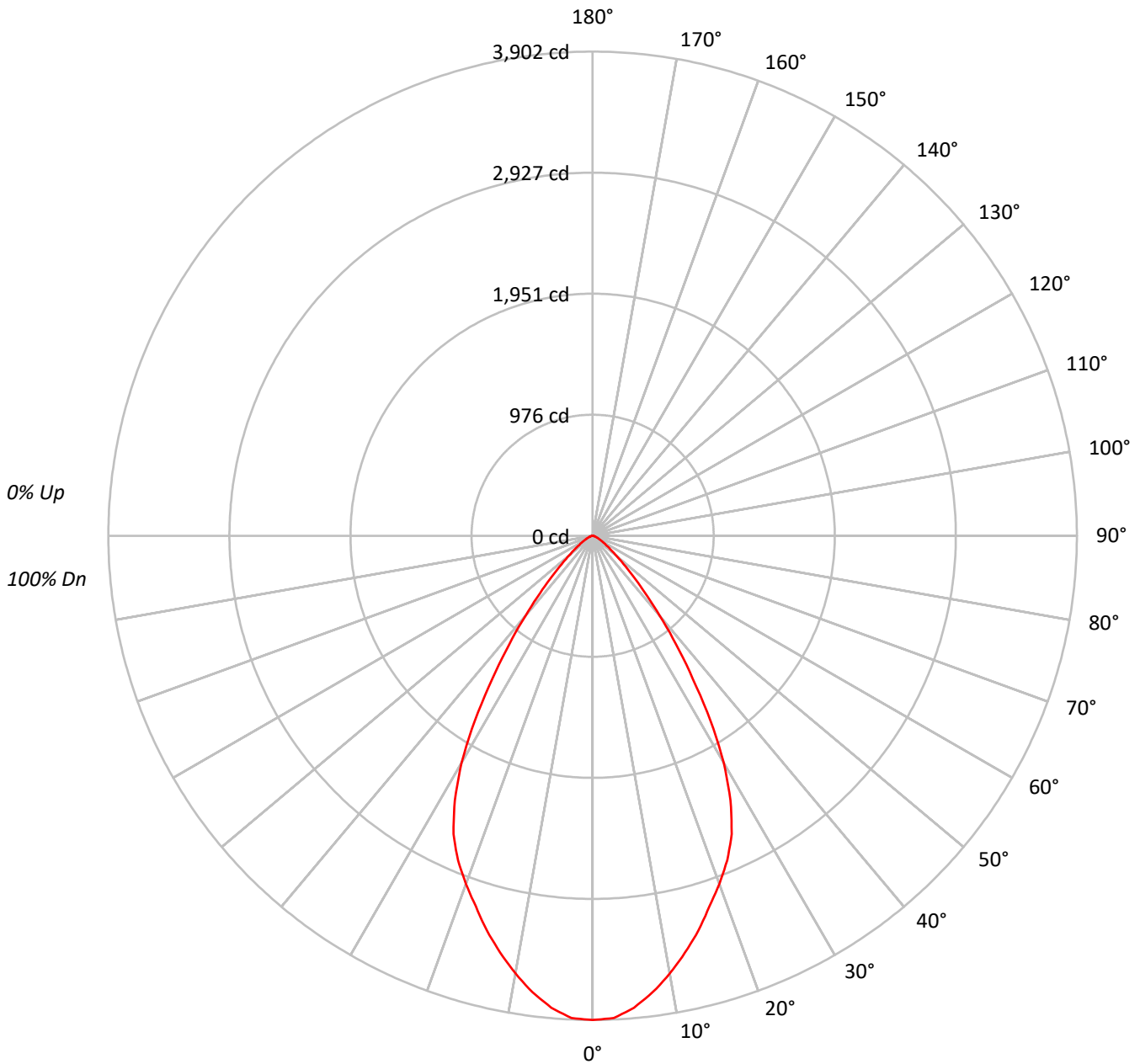
Lumens per Lamp: N/A
Luminaire Lumens: 3943.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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									
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	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92															
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85				85															
3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78				78															
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72				72															
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66				66															
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61				61															
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57				57															
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53				53															
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49				49															
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46				46															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213919
5°	210092
10°	199356
15°	186942
20°	174099
25°	160419
30°	133666
35°	94208
40°	60041
45°	35802
50°	21134
55°	13448
60°	9265
65°	6577
70°	4520
75°	3580
80°	1768
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.8	9.0
10°-20°	923.0	23.4
20°-30°	1196.0	30.3
30°-40°	887.9	22.5
40°-50°	374.8	9.5
50°-60°	133.1	3.4
60°-70°	51.4	1.3
70°-80°	17.8	0.5
80°-90°	2.3	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°	2475.8	62.8
0°-40°	3363.7	85.3
0°-60°	3871.6	98.2
0°-90°	3943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3943.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3902	
5°	3818	357
15°	3294	923
25°	2652	1196
35°	1408	888
45°	462	375
55°	141	133
65°	51	51
75°	17	18
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3902.2
2.5°	3890.9
5°	3817.8
7.5°	3710.6
10°	3581.3
12.5°	3440.4
15°	3293.9
17.5°	3130.8
20°	2984.3
22.5°	2832.3
25°	2652.1
27.5°	2404.3
30°	2111.6
32.5°	1768.0
35°	1407.7
37.5°	1103.7
40°	839.0
42.5°	625.0
45°	461.8
47.5°	337.8
50°	247.8
52.5°	185.8
55°	140.7
57.5°	106.9
60°	84.5
62.5°	62.0
65°	50.7
67.5°	39.3
70°	28.2
72.5°	22.4
75°	16.9
77.5°	11.3
80°	5.6
82.5°	5.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)