

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: P578968

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-30 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578968
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-70-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

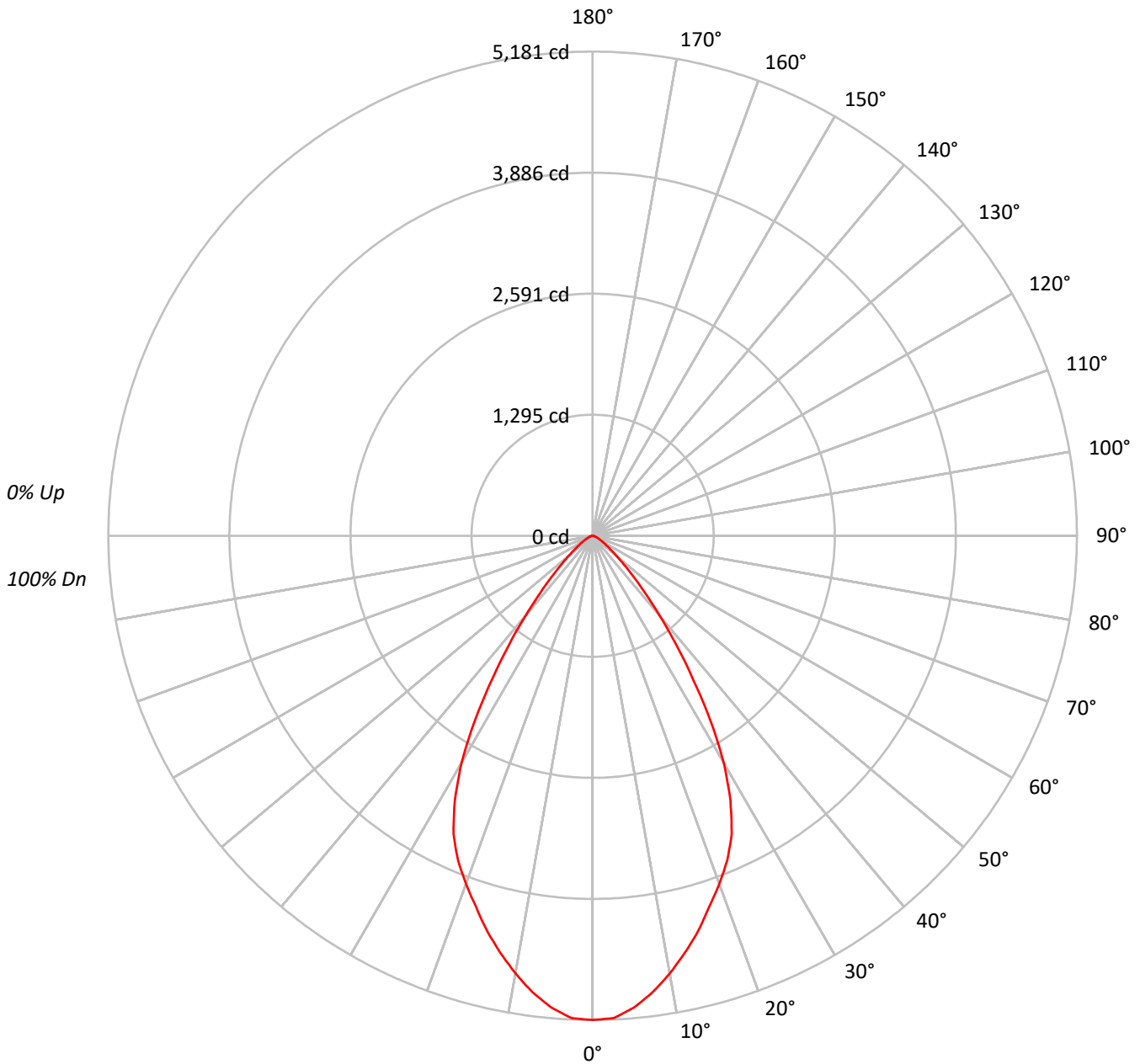
Lumens per Lamp: N/A
Luminaire Lumens: 5235.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	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°	284012
5°	278928
10°	264680
15°	248197
20°	231148
25°	212982
30°	177464
35°	125079
40°	79714
45°	47540
50°	28059
55°	17854
60°	12291
65°	8730
70°	6011
75°	4745
80°	2336
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.7	9.0
10°-20°	1225.4	23.4
20°-30°	1587.9	30.3
30°-40°	1178.8	22.5
40°-50°	497.7	9.5
50°-60°	176.7	3.4
60°-70°	68.2	1.3
70°-80°	23.6	0.5
80°-90°	3.0	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°	3287.0	62.8
0°-40°	4465.9	85.3
0°-60°	5140.2	98.2
0°-90°	5235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5235.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5181	
5°	5069	474
15°	4373	1225
25°	3521	1588
35°	1869	1179
45°	613	498
55°	187	177
65°	67	68
75°	22	24
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5180.8
2.5°	5165.8
5°	5068.7
7.5°	4926.5
10°	4754.8
12.5°	4567.7
15°	4373.2
17.5°	4156.7
20°	3962.2
22.5°	3760.4
25°	3521.1
27.5°	3192.1
30°	2803.5
32.5°	2347.3
35°	1869.0
37.5°	1465.3
40°	1113.9
42.5°	829.7
45°	613.2
47.5°	448.5
50°	329.0
52.5°	246.7
55°	186.8
57.5°	141.9
60°	112.1
62.5°	82.3
65°	67.3
67.5°	52.2
70°	37.5
72.5°	29.8
75°	22.4
77.5°	15.0
80°	7.4
82.5°	7.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)