

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: P580088

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P580088
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-90-D010 FEU6C-X-90-50 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

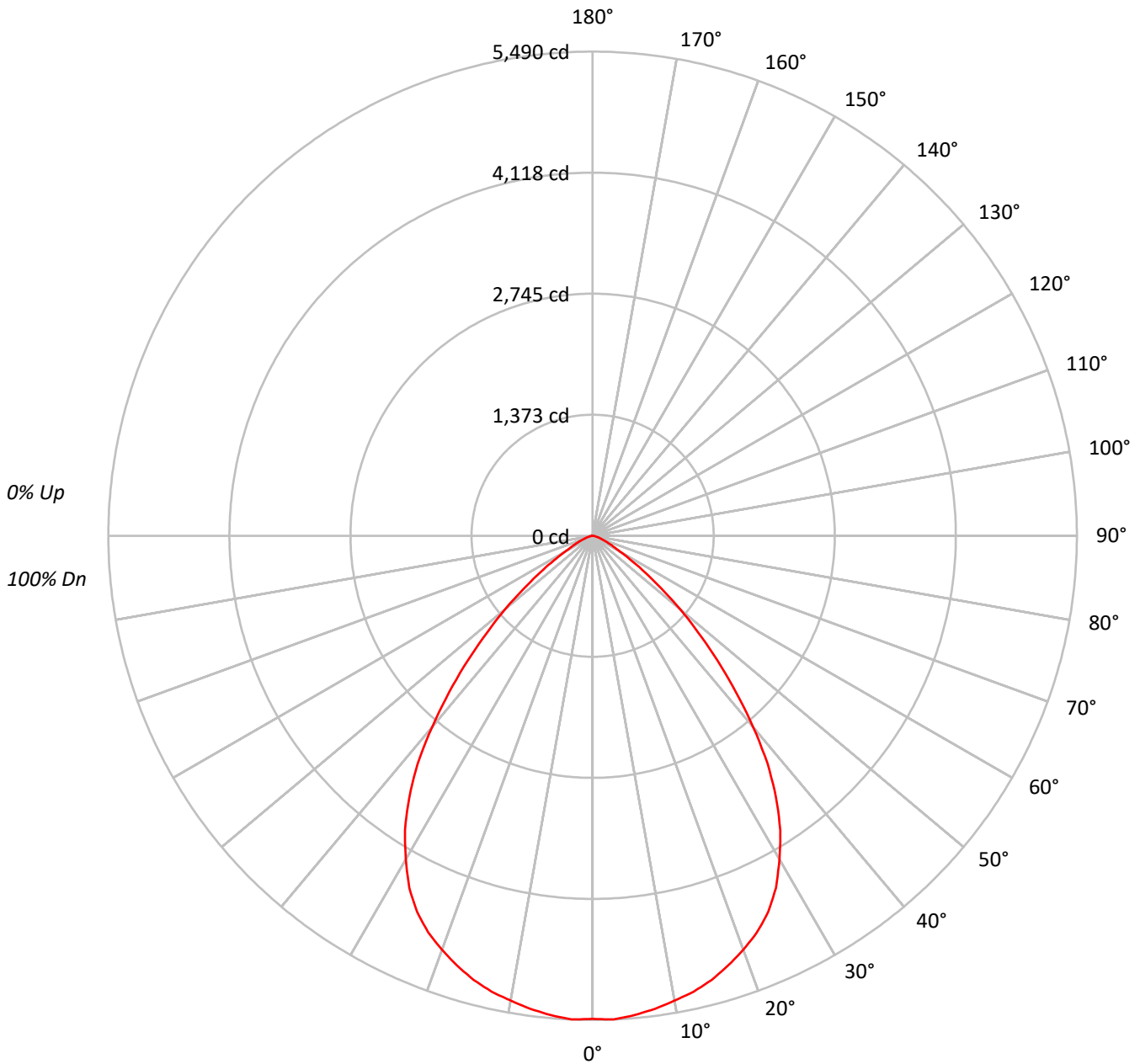
Lumens per Lamp: N/A
Luminaire Lumens: 8882.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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	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°	300310
5°	300203
10°	297896
15°	295898
20°	291395
25°	284732
30°	268098
35°	242623
40°	202601
45°	155241
50°	109949
55°	69321
60°	39098
65°	25385
70°	16573
75°	12179
80°	7324
85°	7296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.4	5.8
10°-20°	1468.2	16.5
20°-30°	2152.7	24.2
30°-40°	2240.4	25.2
40°-50°	1550.0	17.5
50°-60°	674.9	7.6
60°-70°	207.0	2.3
70°-80°	62.0	0.7
80°-90°	9.5	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°	4138.3	46.6
0°-40°	6378.6	71.8
0°-60°	8603.6	96.9
0°-90°	8882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8882.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5478	
5°	5455	517
15°	5214	1468
25°	4707	2153
35°	3625	2240
45°	2002	1550
55°	725	675
65°	196	207
75°	58	62
85°	12	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5478.1
2.5°	5489.7
5°	5455.3
7.5°	5409.4
10°	5351.5
12.5°	5294.0
15°	5213.7
17.5°	5109.9
20°	4994.9
22.5°	4868.3
25°	4707.3
27.5°	4500.1
30°	4235.3
32.5°	3958.9
35°	3625.4
37.5°	3257.2
40°	2831.1
42.5°	2405.4
45°	2002.4
47.5°	1622.6
50°	1289.2
52.5°	978.5
55°	725.3
57.5°	518.0
60°	356.6
62.5°	264.8
65°	195.7
67.5°	149.8
70°	103.4
72.5°	80.7
75°	57.5
77.5°	34.3
80°	23.2
82.5°	11.6
85°	11.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)