

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: P575568

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-50 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-120-D010 FEU6C-X-90-50 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

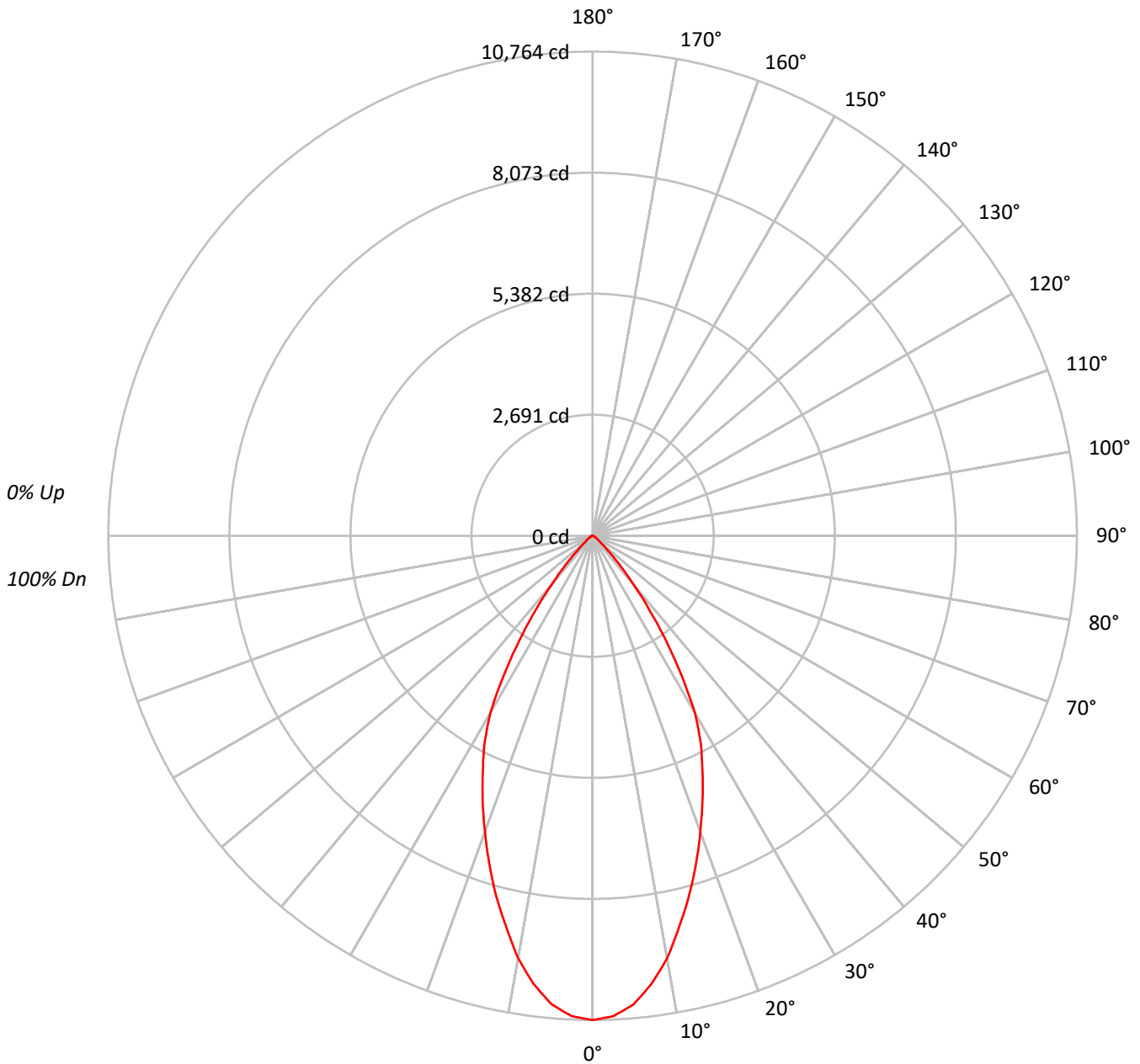
Lumens per Lamp: N/A
Luminaire Lumens: 8397.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	590090
5°	575488
10°	531008
15°	470128
20°	408200
25°	349151
30°	287854
35°	189560
40°	101905
45°	45113
50°	18294
55°	13199
60°	8387
65°	5993
70°	4937
75°	3262
80°	4862
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	968.0	11.5
10°-20°	2308.3	27.5
20°-30°	2644.5	31.5
30°-40°	1776.7	21.2
40°-50°	507.6	6.0
50°-60°	124.3	1.5
60°-70°	47.3	0.6
70°-80°	18.3	0.2
80°-90°	2.1	0.0
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°	5920.8	70.5
0°-40°	7697.5	91.7
0°-60°	8329.4	99.2
0°-90°	8397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8397.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10764	
5°	10458	968
15°	8284	2308
25°	5772	2644
35°	2832	1777
45°	582	508
55°	138	124
65°	46	47
75°	15	18
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10764.1
2.5°	10687.7
5°	10457.8
7.5°	10044.2
10°	9539.2
12.5°	8895.7
15°	8283.6
17.5°	7640.6
20°	6997.1
22.5°	6385.0
25°	5772.3
27.5°	5205.8
30°	4547.4
32.5°	3674.6
35°	2832.5
37.5°	2066.9
40°	1424.0
42.5°	933.9
45°	581.9
47.5°	352.0
50°	214.5
52.5°	168.3
55°	138.1
57.5°	107.3
60°	76.5
62.5°	61.1
65°	46.2
67.5°	30.8
70°	30.8
72.5°	15.4
75°	15.4
77.5°	15.4
80°	15.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)