

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: P575488

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-40 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575488
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-120-D010 FEU6C-X-90-40 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

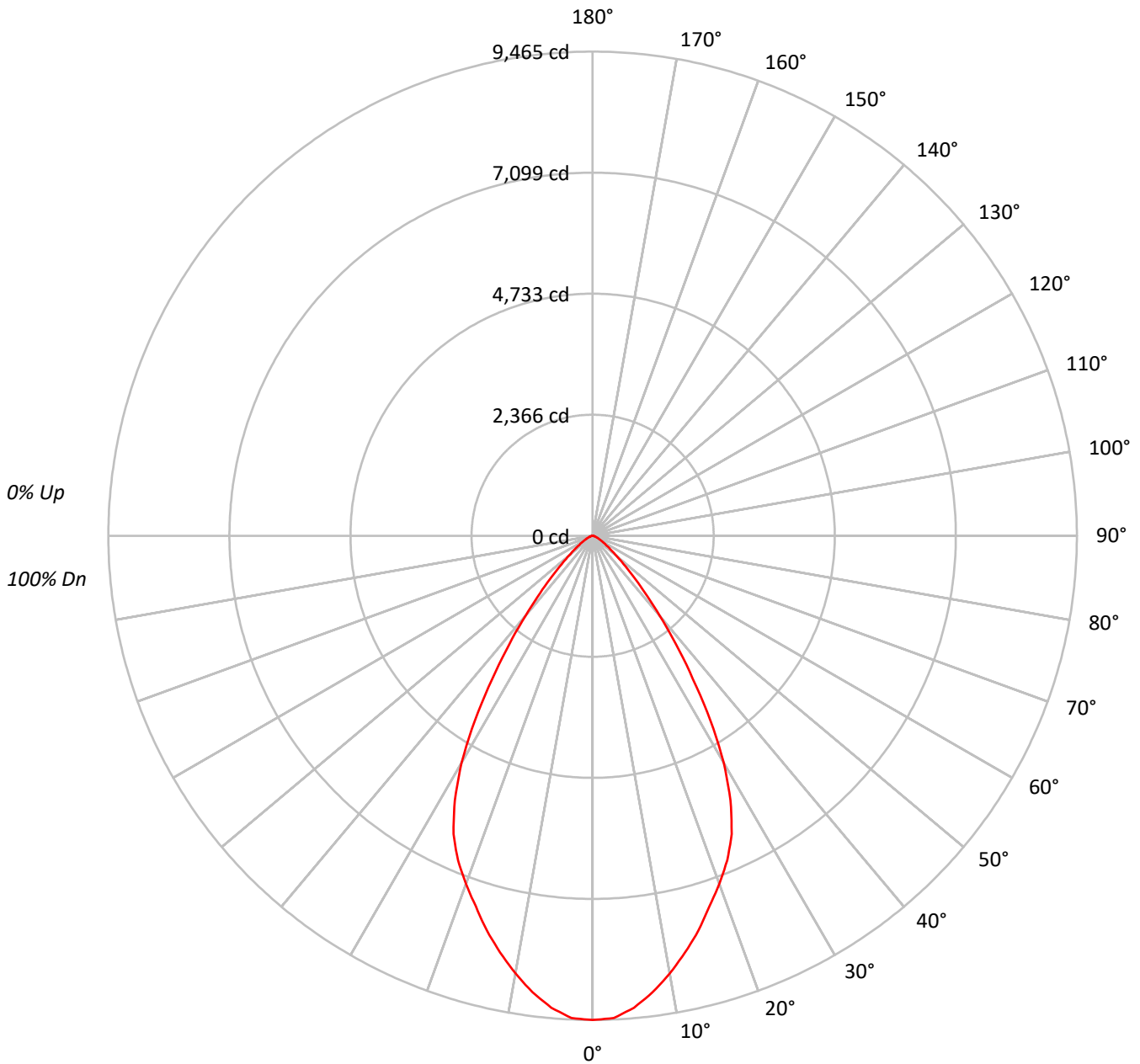
Lumens per Lamp: N/A
Luminaire Lumens: 9564.0 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
Input Voltage (V): NR
Input Current (Ain): 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	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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85	85
3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61	61	61	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57	57	57	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53	53	53	53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49	49	49	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46	46	46	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	518878
5°	509585
10°	483547
15°	453442
20°	422294
25°	389103
30°	324208
35°	228509
40°	145630
45°	86846
50°	51265
55°	32611
60°	22454
65°	15942
70°	10979
75°	8684
80°	4262
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	865.4	9.0
10°-20°	2238.8	23.4
20°-30°	2900.9	30.3
30°-40°	2153.7	22.5
40°-50°	909.2	9.5
50°-60°	322.8	3.4
60°-70°	124.6	1.3
70°-80°	43.1	0.5
80°-90°	5.5	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°	6005.1	62.8
0°-40°	8158.8	85.3
0°-60°	9390.8	98.2
0°-90°	9564.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9564.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9465	
5°	9260	865
15°	7990	2239
25°	6433	2901
35°	3414	2154
45°	1120	909
55°	341	323
65°	123	125
75°	41	43
85°	0	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9465.1
2.5°	9437.6
5°	9260.2
7.5°	9000.4
10°	8686.6
12.5°	8344.9
15°	7989.6
17.5°	7593.9
20°	7238.7
22.5°	6870.0
25°	6432.8
27.5°	5831.7
30°	5121.7
32.5°	4288.3
35°	3414.5
37.5°	2677.0
40°	2035.0
42.5°	1515.9
45°	1120.2
47.5°	819.4
50°	601.1
52.5°	450.7
55°	341.2
57.5°	259.3
60°	204.8
62.5°	150.4
65°	122.9
67.5°	95.4
70°	68.5
72.5°	54.4
75°	41.0
77.5°	27.5
80°	13.5
82.5°	13.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)