

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: P580058

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P580058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)
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-M-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBMLI TRIM

Light Source: -
Ballast/Driver: -

Summary

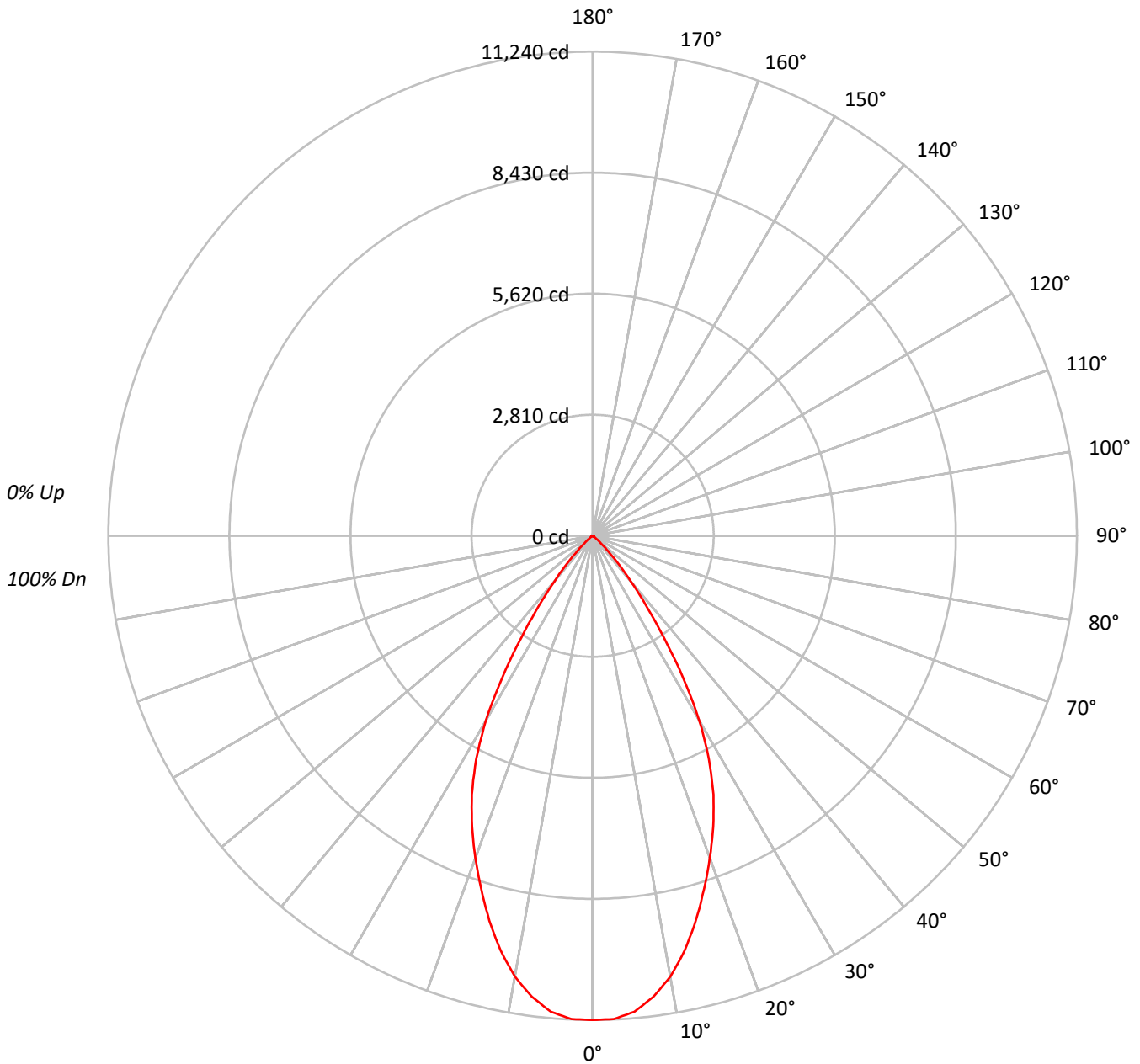
Lumens per Lamp: N/A
Luminaire Lumens: 8982.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	
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	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	616206
5°	610344
10°	578357
15°	525094
20°	464000
25°	401140
30°	313567
35°	192297
40°	98699
45°	39213
50°	12733
55°	4387
60°	3761
65°	3009
70°	1859
75°	2457
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.5	11.5
10°-20°	2578.0	28.7
20°-30°	2996.8	33.4
30°-40°	1835.2	20.4
40°-50°	455.7	5.1
50°-60°	53.2	0.6
60°-70°	19.9	0.2
70°-80°	7.6	0.1
80°-90°	0.0	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°	6610.4	73.6
0°-40°	8445.5	94.0
0°-60°	8954.5	99.7
0°-90°	8982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8982.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11240	
5°	11091	###
15°	9252	2578
25°	6632	2997
35°	2873	1835
45°	506	456
55°	46	53
65°	23	20
75°	12	8
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	11240.5
2.5°	11229.0
5°	11091.2
7.5°	10792.2
10°	10389.8
12.5°	9861.3
15°	9252.1
17.5°	8597.1
20°	7953.6
22.5°	7309.7
25°	6631.8
27.5°	5850.2
30°	4953.6
32.5°	3907.7
35°	2873.4
37.5°	2022.7
40°	1379.2
42.5°	861.9
45°	505.8
47.5°	287.4
50°	149.3
52.5°	69.1
55°	45.9
57.5°	34.3
60°	34.3
62.5°	23.2
65°	23.2
67.5°	11.6
70°	11.6
72.5°	11.6
75°	11.6
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)