

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: P575408

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-30 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575408
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-120-D010 FEU6C-X-90-30 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

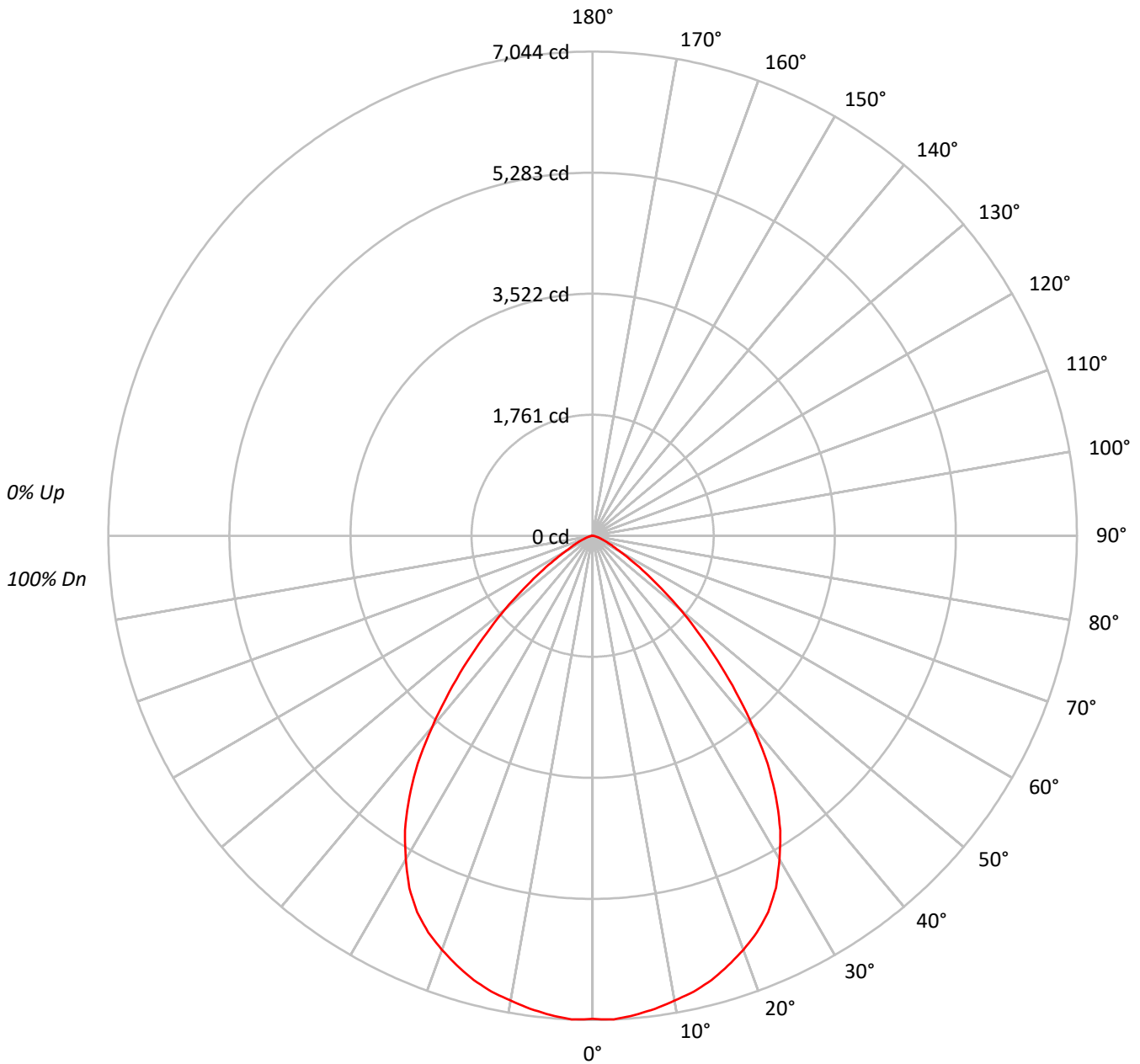
Lumens per Lamp: N/A
Luminaire Lumens: 11397.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	385347
5°	385213
10°	382246
15°	379684
20°	373903
25°	365356
30°	344009
35°	311326
40°	259966
45°	199199
50°	141079
55°	88943
60°	50171
65°	32572
70°	21270
75°	15631
80°	9376
85°	9372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.9	5.8
10°-20°	1883.9	16.5
20°-30°	2762.2	24.2
30°-40°	2874.8	25.2
40°-50°	1988.9	17.5
50°-60°	866.0	7.6
60°-70°	265.6	2.3
70°-80°	79.6	0.7
80°-90°	12.1	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°	5310.0	46.6
0°-40°	8184.8	71.8
0°-60°	11039.7	96.9
0°-90°	11397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11397.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7029	
5°	7000	664
15°	6690	1884
25°	6040	2762
35°	4652	2875
45°	2569	1989
55°	931	866
65°	251	266
75°	74	80
85°	15	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7029.3
2.5°	7044.1
5°	7000.1
7.5°	6941.1
10°	6866.8
12.5°	6793.0
15°	6690.0
17.5°	6556.8
20°	6409.2
22.5°	6246.8
25°	6040.2
27.5°	5774.3
30°	5434.5
32.5°	5079.9
35°	4652.0
37.5°	4179.5
40°	3632.7
42.5°	3086.5
45°	2569.4
47.5°	2082.1
50°	1654.2
52.5°	1255.5
55°	930.6
57.5°	664.6
60°	457.6
62.5°	339.8
65°	251.1
67.5°	192.2
70°	132.7
72.5°	103.5
75°	73.8
77.5°	44.1
80°	29.7
82.5°	14.9
85°	14.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)