

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: P574818

Luminaire Tested: **FLD6C-10-D010 FEU6C-X-90-30 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P574818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-10-D010 FEU6C-X-90-30 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

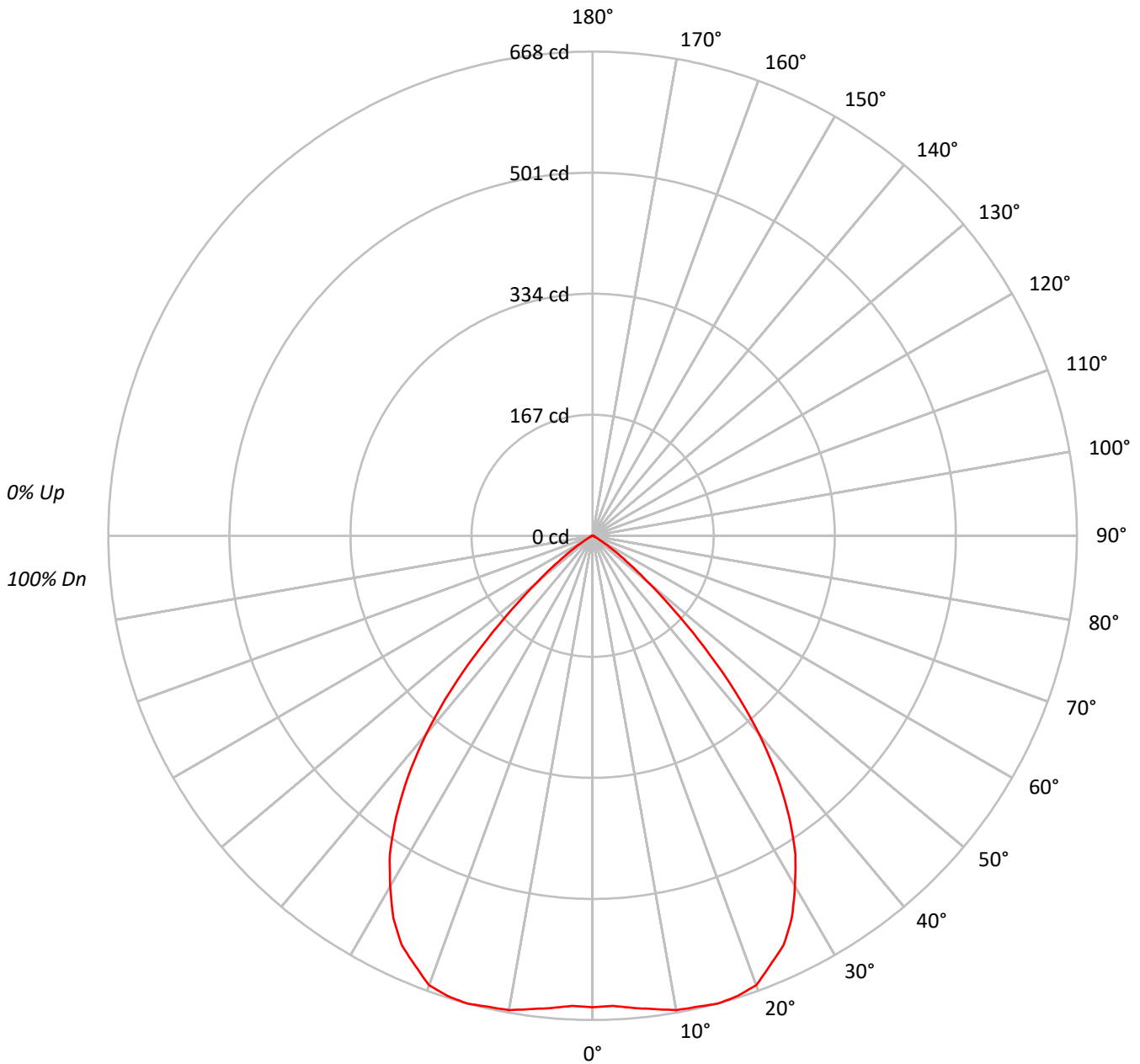
Lumens per Lamp: N/A
Luminaire Lumens: 1041.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
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

TEST NUMBER: P574818

CATALOG NUMBER: FLD6C-10-D010 FEU6C-X-90-30 F6X-W-X-LI

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83				83															
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76				76															
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69				69															
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63				63															
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57				57															
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52				52															
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48				48															
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44				44															
10	65	54	47	43	64	53	47	43	52	46	42	51	46	42	51	46	42	41				41															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35650
5°	35984
10°	36990
15°	37912
20°	38492
25°	37696
30°	35341
35°	31594
40°	25591
45°	16932
50°	8554
55°	3613
60°	1162
65°	454
70°	385
75°	254
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	6.0
10°-20°	188.6	18.1
20°-30°	284.3	27.3
30°-40°	290.9	27.9
40°-50°	169.5	16.3
50°-60°	38.9	3.7
60°-70°	4.8	0.5
70°-80°	1.3	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°	535.6	51.4
0°-40°	826.5	79.4
0°-60°	1035.0	99.4
0°-90°	1041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	650	
5°	654	63
15°	668	189
25°	623	284
35°	472	291
45°	218	169
55°	38	39
65°	4	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	650.3
2.5°	649.2
5°	653.9
7.5°	658.6
10°	664.5
12.5°	665.7
15°	668.0
17.5°	665.7
20°	659.8
22.5°	640.9
25°	623.2
27.5°	594.9
30°	558.3
32.5°	520.5
35°	472.1
37.5°	417.8
40°	357.6
42.5°	290.3
45°	218.4
47.5°	152.2
50°	100.3
52.5°	63.7
55°	37.8
57.5°	20.1
60°	10.6
62.5°	5.9
65°	3.5
67.5°	3.5
70°	2.4
72.5°	1.2
75°	1.2
77.5°	1.2
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)