

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: P578068

Luminaire Tested: **FLD6C-55-D010 FEU6C-X-90-30 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578068
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-55-D010 FEU6C-X-90-30 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

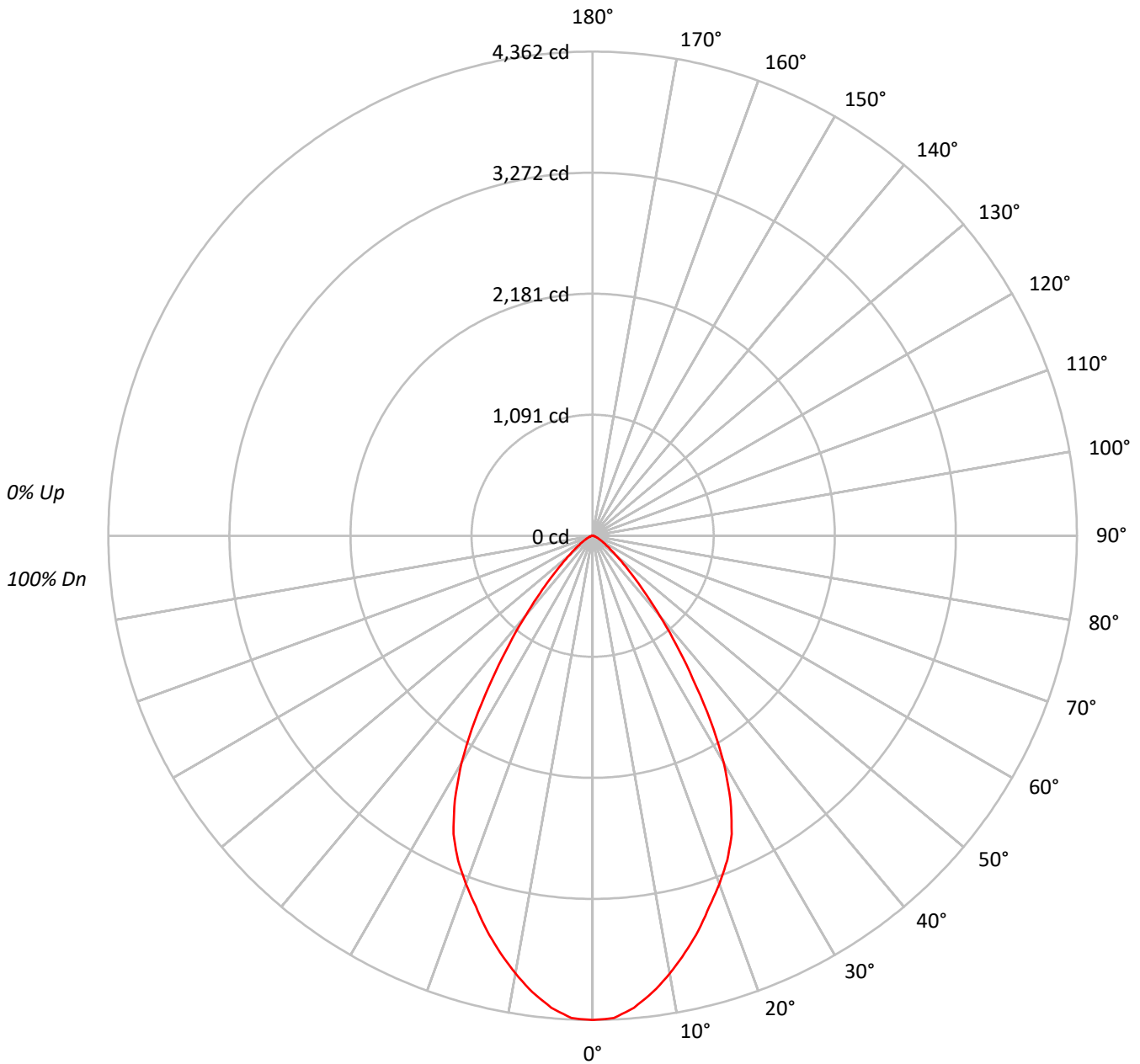
Lumens per Lamp: N/A
Luminaire Lumens: 4408.0 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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: P578068

CATALOG NUMBER: FLD6C-55-D010 FEU6C-X-90-30 F6X-M-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P578068

CATALOG NUMBER: FLD6C-55-D010 FEU6C-X-90-30 F6X-M-X-H

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	239148
5°	234866
10°	222864
15°	208991
20°	194634
25°	179333
30°	149428
35°	105317
40°	67119
45°	40027
50°	23624
55°	15034
60°	10350
65°	7342
70°	5065
75°	4003
80°	1957
85°	0



TEST NUMBER: P578068

CATALOG NUMBER: FLD6C-55-D010 FEU6C-X-90-30 F6X-M-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.9	9.0
10°-20°	1031.9	23.4
20°-30°	1337.0	30.3
30°-40°	992.6	22.5
40°-50°	419.1	9.5
50°-60°	148.8	3.4
60°-70°	57.4	1.3
70°-80°	19.9	0.5
80°-90°	2.5	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°	2767.7	62.8
0°-40°	3760.3	85.3
0°-60°	4328.2	98.2
0°-90°	4408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4408.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4362	
5°	4268	399
15°	3682	1032
25°	2965	1337
35°	1574	993
45°	516	419
55°	157	149
65°	57	57
75°	19	20
85°	0	3
90°	0	



TEST NUMBER: P578068

CATALOG NUMBER: FLD6C-55-D010 FEU6C-X-90-30 F6X-M-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	4362.4
2.5°	4349.7
5°	4268.0
7.5°	4148.2
10°	4003.6
12.5°	3846.1
15°	3682.4
17.5°	3500.0
20°	3336.3
22.5°	3166.3
25°	2964.8
27.5°	2687.8
30°	2360.6
32.5°	1976.5
35°	1573.7
37.5°	1233.8
40°	937.9
42.5°	698.7
45°	516.3
47.5°	377.7
50°	277.0
52.5°	207.7
55°	157.3
57.5°	119.5
60°	94.4
62.5°	69.3
65°	56.6
67.5°	44.0
70°	31.6
72.5°	25.1
75°	18.9
77.5°	12.7
80°	6.2
82.5°	6.2
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)