

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: P577828

Luminaire Tested: **FLD6C-50-D010 FEU6C-X-90-35 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577828
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-50-D010 FEU6C-X-90-35 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

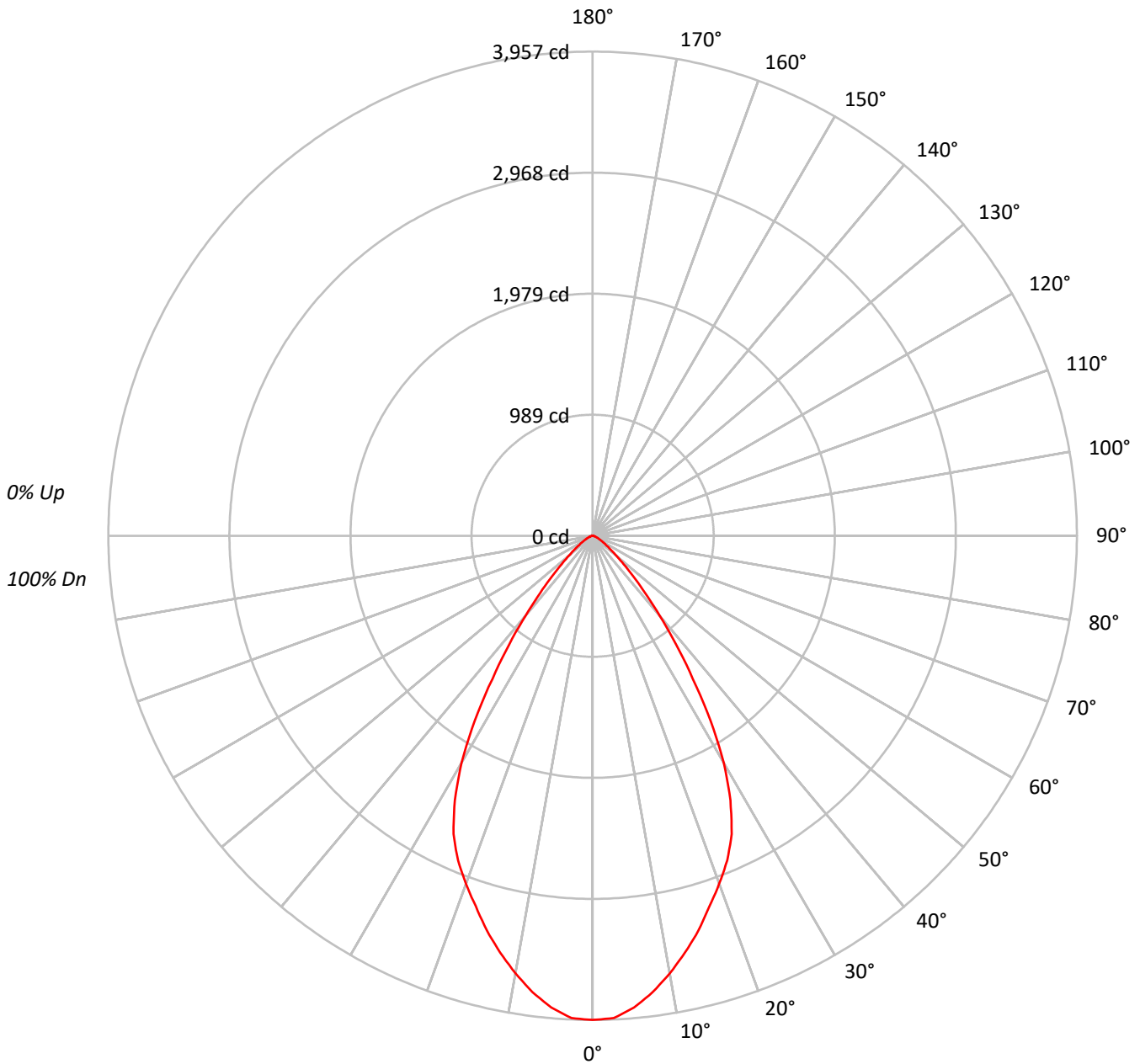
Lumens per Lamp: N/A
Luminaire Lumens: 3998.0 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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: P577828

CATALOG NUMBER: FLD6C-50-D010 FEU6C-X-90-35 F6X-M-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P577828

CATALOG NUMBER: FLD6C-50-D010 FEU6C-X-90-35 F6X-M-X-H

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	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°	216901
5°	213019
10°	202134
15°	189553
20°	176532
25°	162657
30°	135527
35°	95519
40°	60878
45°	36306
50°	21432
55°	13629
60°	9385
65°	6667
70°	4584
75°	3622
80°	1768
85°	0



TEST NUMBER: P577828

CATALOG NUMBER: FLD6C-50-D010 FEU6C-X-90-35 F6X-M-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.8	9.0
10°-20°	935.9	23.4
20°-30°	1212.7	30.3
30°-40°	900.3	22.5
40°-50°	380.1	9.5
50°-60°	134.9	3.4
60°-70°	52.1	1.3
70°-80°	18.0	0.5
80°-90°	2.3	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°	2510.3	62.8
0°-40°	3410.6	85.3
0°-60°	3925.6	98.2
0°-90°	3998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3998.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3957	
5°	3871	362
15°	3340	936
25°	2689	1213
35°	1427	900
45°	468	380
55°	143	135
65°	51	52
75°	17	18
85°	0	2
90°	0	



TEST NUMBER: P577828

CATALOG NUMBER: FLD6C-50-D010 FEU6C-X-90-35 F6X-M-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	3956.6
2.5°	3945.1
5°	3871.0
7.5°	3762.4
10°	3631.2
12.5°	3488.4
15°	3339.9
17.5°	3174.5
20°	3026.0
22.5°	2871.8
25°	2689.1
27.5°	2437.8
30°	2141.0
32.5°	1792.6
35°	1427.3
37.5°	1119.1
40°	850.7
42.5°	633.7
45°	468.3
47.5°	342.5
50°	251.3
52.5°	188.4
55°	142.6
57.5°	108.4
60°	85.6
62.5°	62.9
65°	51.4
67.5°	39.9
70°	28.6
72.5°	22.8
75°	17.1
77.5°	11.5
80°	5.6
82.5°	5.6
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)