

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: P577028

Luminaire Tested: **FLD6C-35-D010 FEU6C-X-90-40 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577028
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-35-D010 FEU6C-X-90-40 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

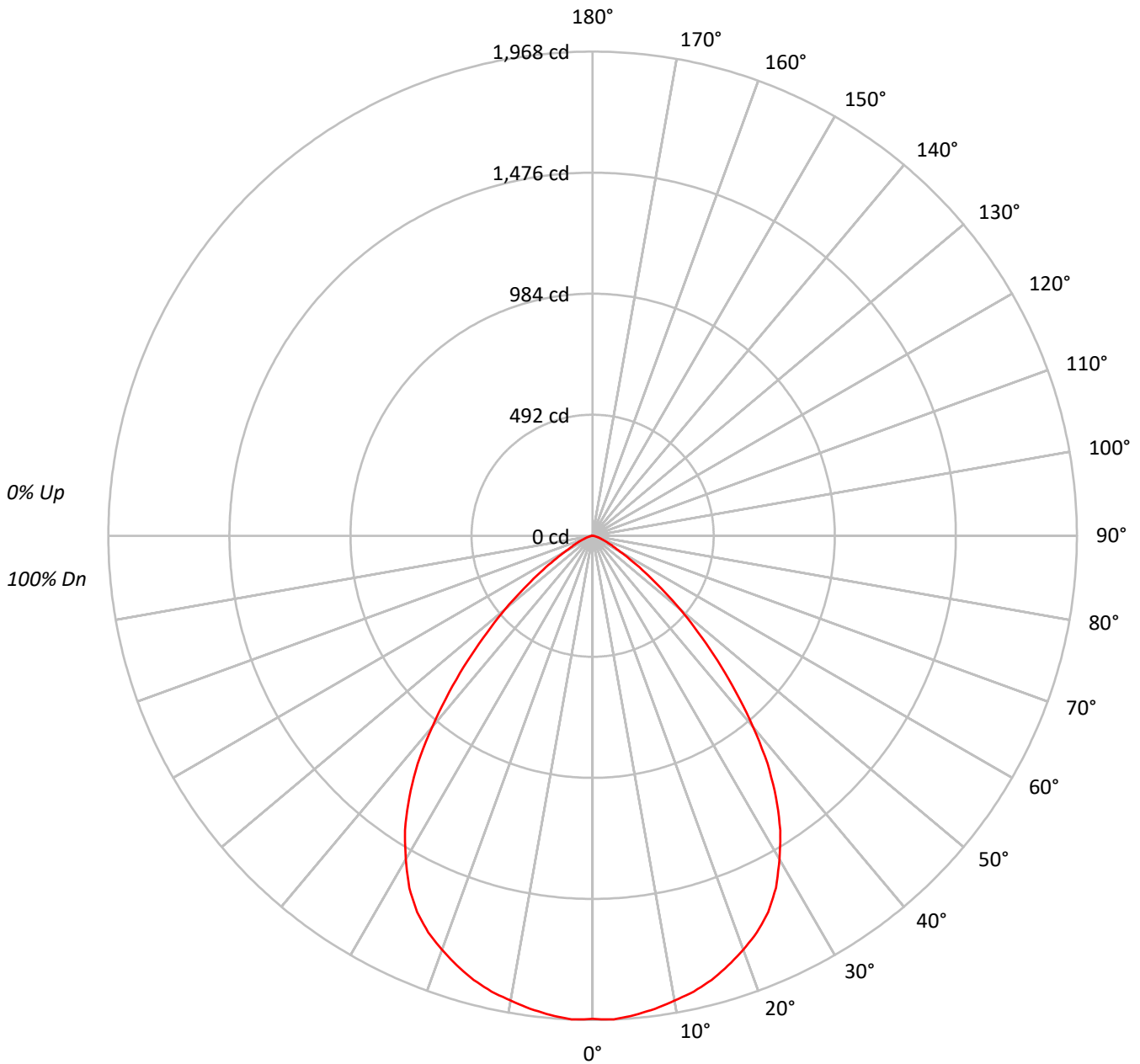
Lumens per Lamp: N/A
Luminaire Lumens: 3184.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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: P577028

CATALOG NUMBER: FLD6C-35-D010 FEU6C-X-90-40 F6X-W-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P577028

CATALOG NUMBER: FLD6C-35-D010 FEU6C-X-90-40 F6X-W-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
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°	107656
5°	107616
10°	106789
15°	106073
20°	104455
25°	102072
30°	96110
35°	86973
40°	72629
45°	55649
50°	39410
55°	24850
60°	14012
65°	9106
70°	5947
75°	4363
80°	2620
85°	2642



TEST NUMBER: P577028

CATALOG NUMBER: FLD6C-35-D010 FEU6C-X-90-40 F6X-W-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	5.8
10°-20°	526.3	16.5
20°-30°	771.7	24.2
30°-40°	803.1	25.2
40°-50°	555.7	17.5
50°-60°	241.9	7.6
60°-70°	74.2	2.3
70°-80°	22.2	0.7
80°-90°	3.4	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°	1483.5	46.6
0°-40°	2286.6	71.8
0°-60°	3084.2	96.9
0°-90°	3184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3184.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1964	
5°	1956	185
15°	1869	526
25°	1688	772
35°	1300	803
45°	718	556
55°	260	242
65°	70	74
75°	21	22
85°	4	3
90°	0	



TEST NUMBER: P577028

CATALOG NUMBER: FLD6C-35-D010 FEU6C-X-90-40 F6X-W-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	1963.8
2.5°	1967.9
5°	1955.6
7.5°	1939.2
10°	1918.4
12.5°	1897.8
15°	1869.0
17.5°	1831.8
20°	1790.5
22.5°	1745.2
25°	1687.5
27.5°	1613.2
30°	1518.3
32.5°	1419.2
35°	1299.6
37.5°	1167.6
40°	1014.9
42.5°	862.3
45°	717.8
47.5°	581.7
50°	462.1
52.5°	350.8
55°	260.0
57.5°	185.7
60°	127.8
62.5°	94.9
65°	70.2
67.5°	53.7
70°	37.1
72.5°	28.9
75°	20.6
77.5°	12.3
80°	8.3
82.5°	4.2
85°	4.2
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)