

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: P577318

Luminaire Tested: **FLD6C-40-D010 FEU6C-X-90-40 F6X-N-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205310)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-40-D010 FEU6C-X-90-40 F6X-N-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBNLI TRIM

Light Source: -
Ballast/Driver: -

Summary

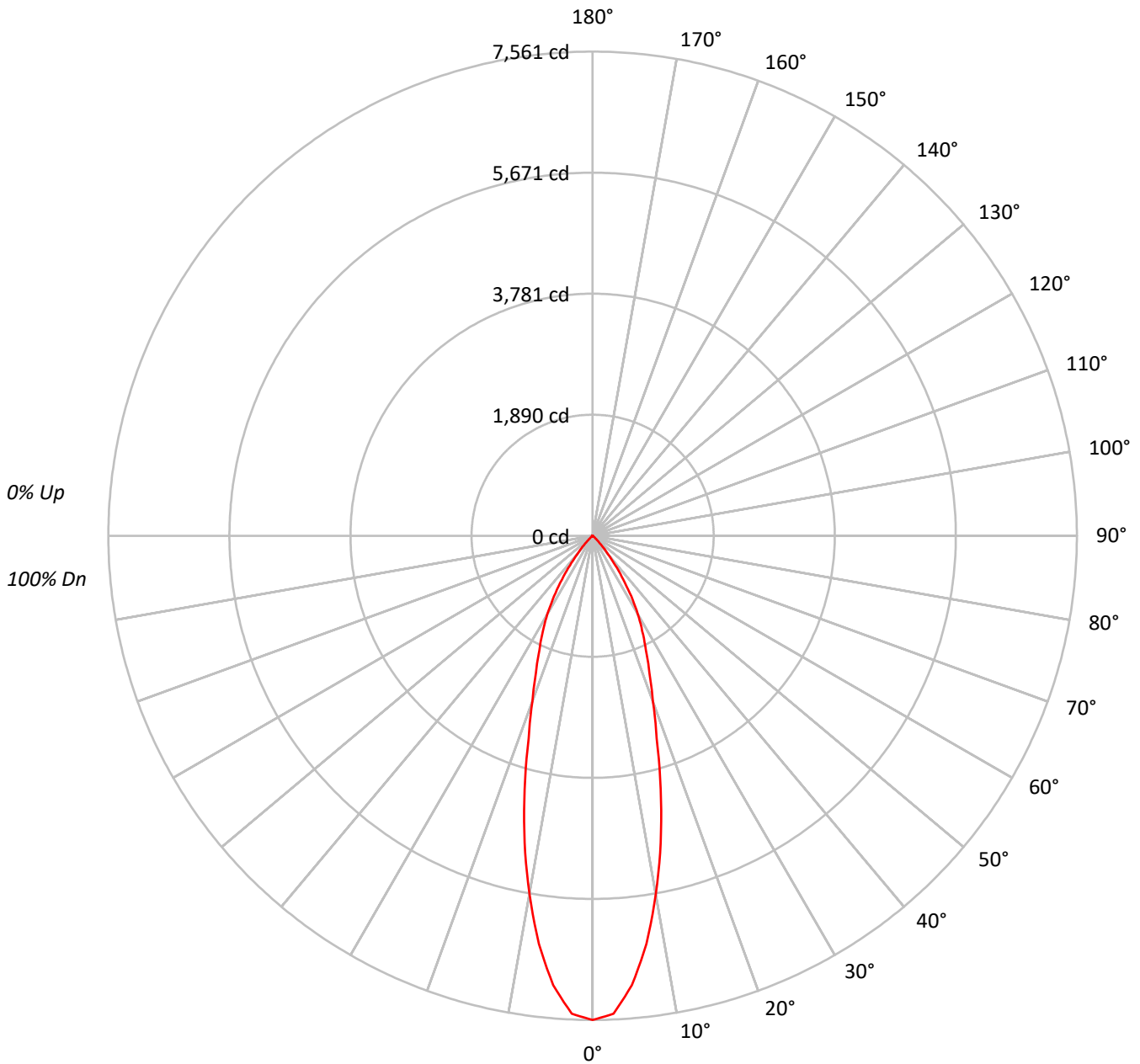
Lumens per Lamp: N/A
Luminaire Lumens: 3321.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.58
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P577318

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-40 F6X-N-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P577318

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-40 F6X-N-X-LI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95				95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89				89
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85				85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80				80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76				76
6	92	84	79	75	90	83	78	75	82	77	74	80	76	74	79	76	73	72				72
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68				68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65				65
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62				62
10	78	69	64	61	77	69	64	61	68	64	61	67	63	60	67	63	60	59				59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	414501
5°	387628
10°	316143
15°	232640
20°	160349
25°	119045
30°	89419
35°	55760
40°	27065
45°	9288
50°	1220
55°	918
60°	526
65°	623
70°	769
75°	0
80°	0
85°	0



TEST NUMBER: P577318

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-40 F6X-N-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.7	18.9
10°-20°	1128.4	34.0
20°-30°	912.3	27.5
30°-40°	525.6	15.8
40°-50°	111.1	3.3
50°-60°	9.6	0.3
60°-70°	4.8	0.1
70°-80°	0.6	0.0
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°	2669.4	80.4
0°-40°	3194.9	96.2
0°-60°	3315.6	99.8
0°-90°	3321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7561	
5°	7044	629
15°	4099	1128
25°	1968	912
35°	833	526
45°	120	111
55°	10	10
65°	5	5
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P577318

CATALOG NUMBER: FLD6C-40-D010 FEU6C-X-90-40 F6X-N-X-LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	7561.1
2.5°	7470.3
5°	7044.0
7.5°	6431.1
10°	5679.3
12.5°	4908.4
15°	4099.1
17.5°	3318.5
20°	2748.6
22.5°	2312.9
25°	1968.1
27.5°	1676.0
30°	1412.6
32.5°	1120.6
35°	833.2
37.5°	579.4
40°	378.2
42.5°	229.9
45°	119.8
47.5°	47.8
50°	14.3
52.5°	14.3
55°	9.6
57.5°	9.6
60°	4.8
62.5°	4.8
65°	4.8
67.5°	4.8
70°	4.8
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)