

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: P574108

Luminaire Tested: **FLD6C-05-D010 FEU6C-X-90-27 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P574108
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-05-D010 FEU6C-X-90-27 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

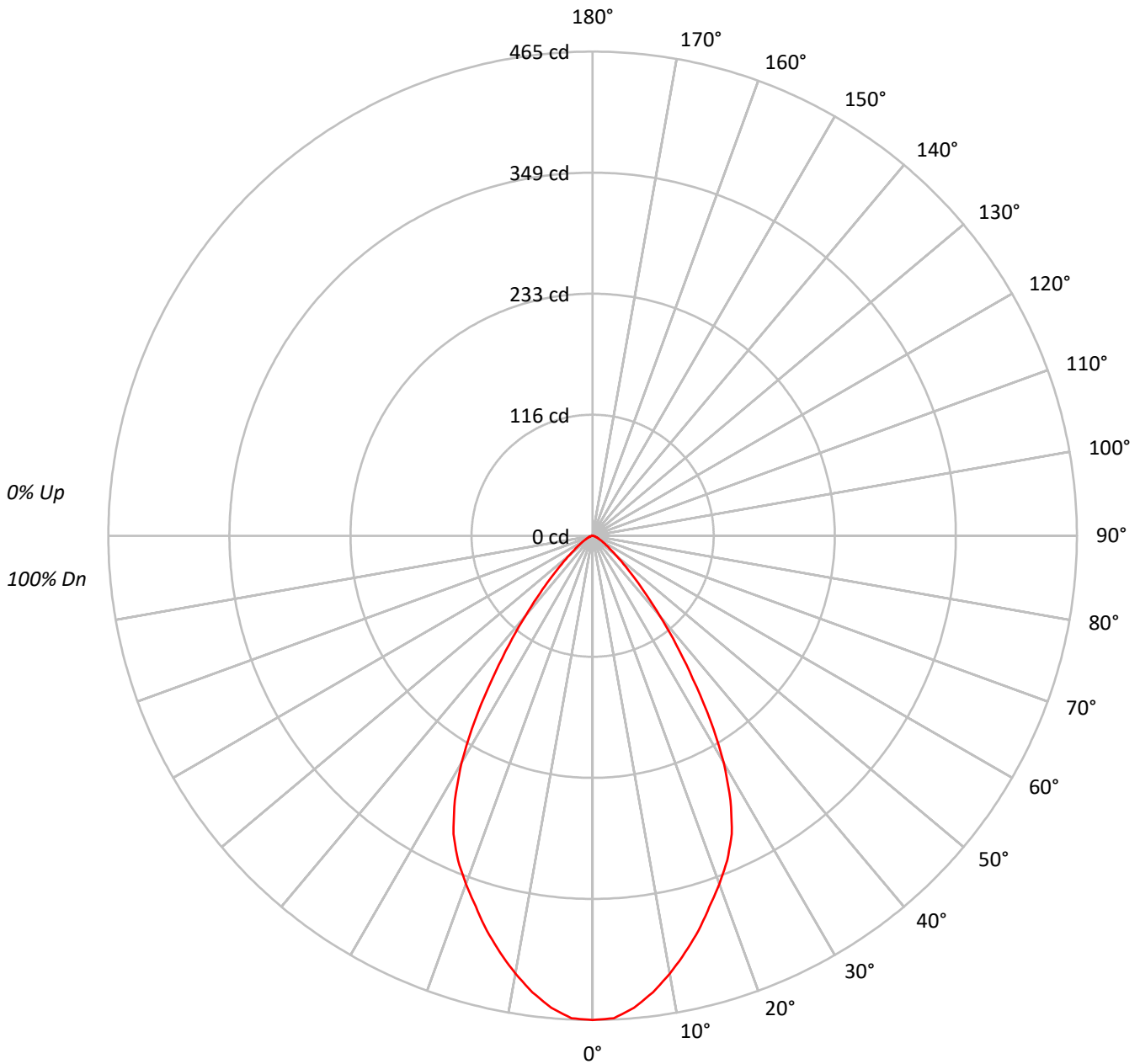
Lumens per Lamp: N/A
Luminaire Lumens: 470.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P574108

CATALOG NUMBER: FLD6C-05-D010 FEU6C-X-90-27 F6X-M-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P574108

CATALOG NUMBER: FLD6C-05-D010 FEU6C-X-90-27 F6X-M-X-H

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	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	83	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	68	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°	25497
5°	25044
10°	23764
15°	22282
20°	20751
25°	19120
30°	15933
35°	11230
40°	7156
45°	4264
50°	2516
55°	1606
60°	1107
65°	778
70°	545
75°	424
80°	221
85°	0



TEST NUMBER: P574108

CATALOG NUMBER: FLD6C-05-D010 FEU6C-X-90-27 F6X-M-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	9.0
10°-20°	110.0	23.4
20°-30°	142.6	30.3
30°-40°	105.8	22.5
40°-50°	44.7	9.5
50°-60°	15.8	3.4
60°-70°	6.1	1.3
70°-80°	2.1	0.5
80°-90°	0.3	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°	295.1	62.8
0°-40°	400.9	85.3
0°-60°	461.5	98.2
0°-90°	470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	470.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	465	
5°	455	43
15°	393	110
25°	316	143
35°	168	106
45°	55	45
55°	17	16
65°	6	6
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P574108

CATALOG NUMBER: FLD6C-05-D010 FEU6C-X-90-27 F6X-M-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	465.1
2.5°	463.8
5°	455.1
7.5°	442.3
10°	426.9
12.5°	410.1
15°	392.6
17.5°	373.2
20°	355.7
22.5°	337.6
25°	316.1
27.5°	286.6
30°	251.7
32.5°	210.7
35°	167.8
37.5°	131.6
40°	100.0
42.5°	74.5
45°	55.0
47.5°	40.3
50°	29.5
52.5°	22.1
55°	16.8
57.5°	12.7
60°	10.1
62.5°	7.4
65°	6.0
67.5°	4.7
70°	3.4
72.5°	2.7
75°	2.0
77.5°	1.4
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)