

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: P577538

Luminaire Tested: **FLD6C-45-D010 FEU6C-X-90-35 F6X-M-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-45-D010 FEU6C-X-90-35 F6X-M-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBMLI TRIM

Light Source: -
Ballast/Driver: -

Summary

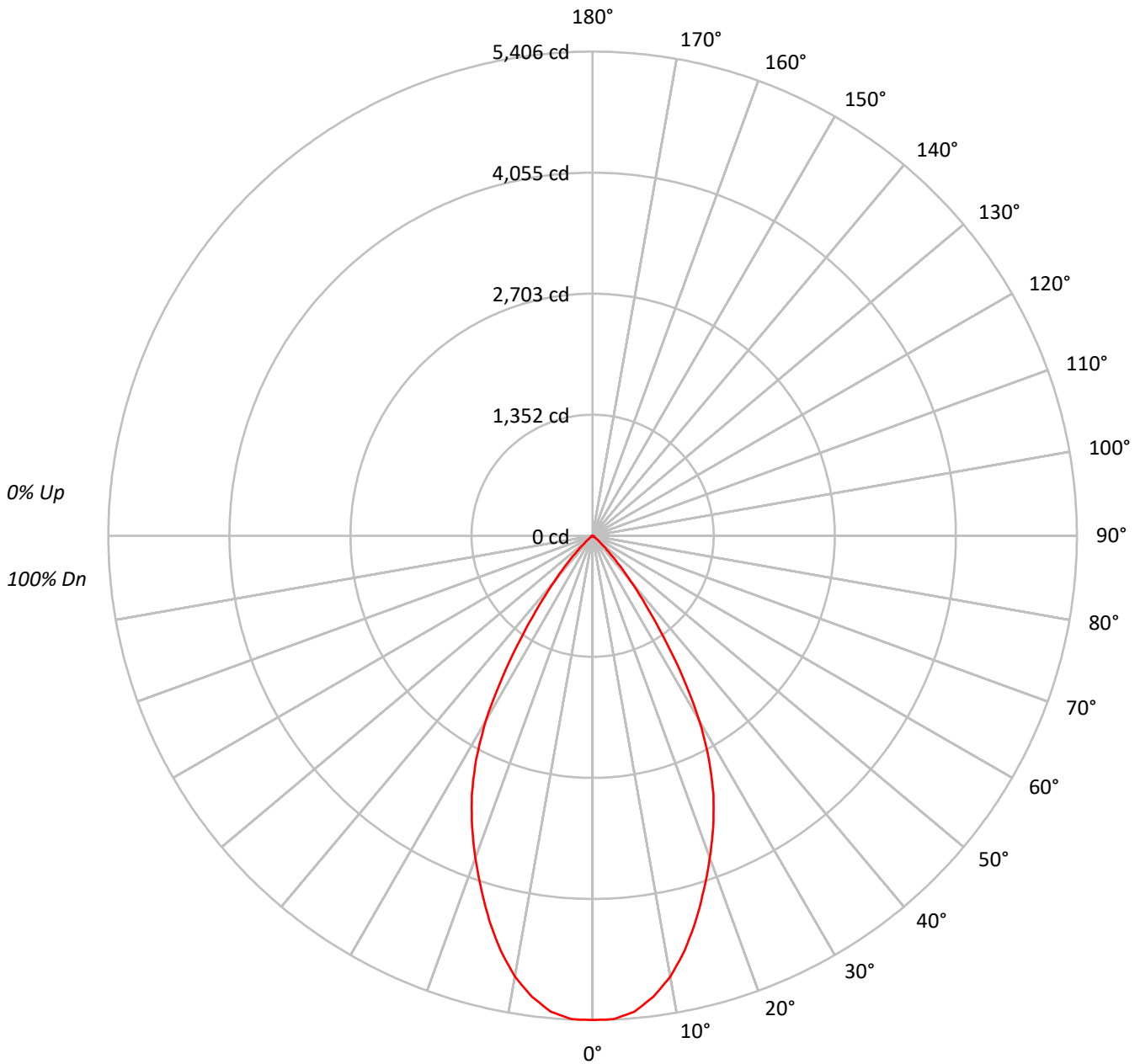
Lumens per Lamp: N/A
Luminaire Lumens: 4320.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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: P577538

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-35 F6X-M-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P577538

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-35 F6X-M-X-LI

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			
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94			
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82			
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76			
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	296374
5°	293555
10°	278168
15°	252550
20°	223168
25°	192937
30°	150814
35°	92488
40°	47475
45°	18862
50°	6123
55°	2112
60°	1809
65°	1440
70°	898
75°	1186
80°	0
85°	0



TEST NUMBER: P577538

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-35 F6X-M-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.0	11.5
10°-20°	1239.9	28.7
20°-30°	1441.4	33.4
30°-40°	882.7	20.4
40°-50°	219.2	5.1
50°-60°	25.6	0.6
60°-70°	9.6	0.2
70°-80°	3.7	0.1
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°	3179.3	73.6
0°-40°	4062.0	94.0
0°-60°	4306.8	99.7
0°-90°	4320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5406	
5°	5334	498
15°	4450	1240
25°	3190	1441
35°	1382	883
45°	243	219
55°	22	26
65°	11	10
75°	6	4
85°	0	0
90°	0	



TEST NUMBER: P577538

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-35 F6X-M-X-LI

CANDELA DISTRIBUTION (FULL):

0°	
0°	5406.3
2.5°	5400.7
5°	5334.5
7.5°	5190.7
10°	4997.1
12.5°	4742.9
15°	4449.9
17.5°	4134.9
20°	3825.4
22.5°	3515.7
25°	3189.7
27.5°	2813.7
30°	2382.5
32.5°	1879.5
35°	1382.0
37.5°	972.9
40°	663.4
42.5°	414.5
45°	243.3
47.5°	138.2
50°	71.8
52.5°	33.2
55°	22.1
57.5°	16.5
60°	16.5
62.5°	11.1
65°	11.1
67.5°	5.6
70°	5.6
72.5°	5.6
75°	5.6
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)