

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: P577608

Luminaire Tested: **FLD6C-45-D010 FEU6C-X-90-40 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)
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-90-40 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

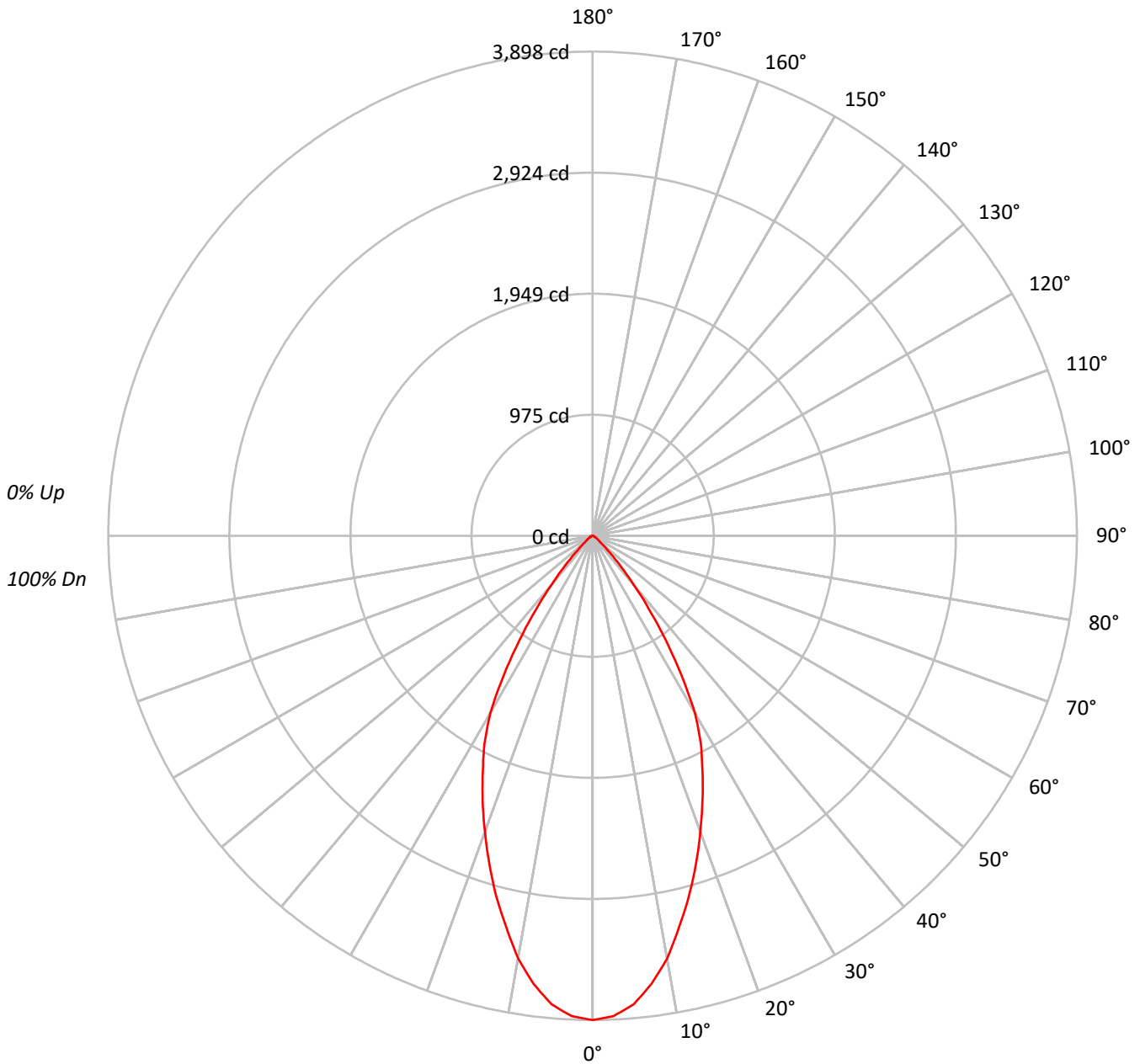
Lumens per Lamp: N/A
Luminaire Lumens: 3041.0 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (Ain): 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: P577608

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-40 F6X-N-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P577608

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-40 F6X-N-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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213705
5°	208414
10°	192309
15°	170256
20°	147830
25°	126443
30°	104250
35°	68650
40°	36905
45°	16335
50°	6627
55°	4779
60°	3037
65°	2166
70°	1795
75°	1186
80°	1768
85°	0



TEST NUMBER: P577608

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-40 F6X-N-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.6	11.5
10°-20°	836.0	27.5
20°-30°	957.7	31.5
30°-40°	643.5	21.2
40°-50°	183.8	6.0
50°-60°	45.0	1.5
60°-70°	17.1	0.6
70°-80°	6.7	0.2
80°-90°	0.8	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°	2144.2	70.5
0°-40°	2787.7	91.7
0°-60°	3016.5	99.2
0°-90°	3041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3041.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3898	
5°	3787	351
15°	3000	836
25°	2090	958
35°	1026	643
45°	211	184
55°	50	45
65°	17	17
75°	6	7
85°	0	1
90°	0	



TEST NUMBER: P577608

CATALOG NUMBER: FLD6C-45-D010 FEU6C-X-90-40 F6X-N-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	3898.3
2.5°	3870.6
5°	3787.3
7.5°	3637.5
10°	3454.7
12.5°	3221.6
15°	2999.9
17.5°	2767.1
20°	2534.0
22.5°	2312.3
25°	2090.4
27.5°	1885.3
30°	1646.9
32.5°	1330.8
35°	1025.8
37.5°	748.5
40°	515.7
42.5°	338.2
45°	210.7
47.5°	127.5
50°	77.7
52.5°	61.0
55°	50.0
57.5°	38.8
60°	27.7
62.5°	22.1
65°	16.7
67.5°	11.2
70°	11.2
72.5°	5.6
75°	5.6
77.5°	5.6
80°	5.6
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)