

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: P574608

Luminaire Tested: **FLD6C-08-D010 FEU6C-X-90-40 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P574608
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-08-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

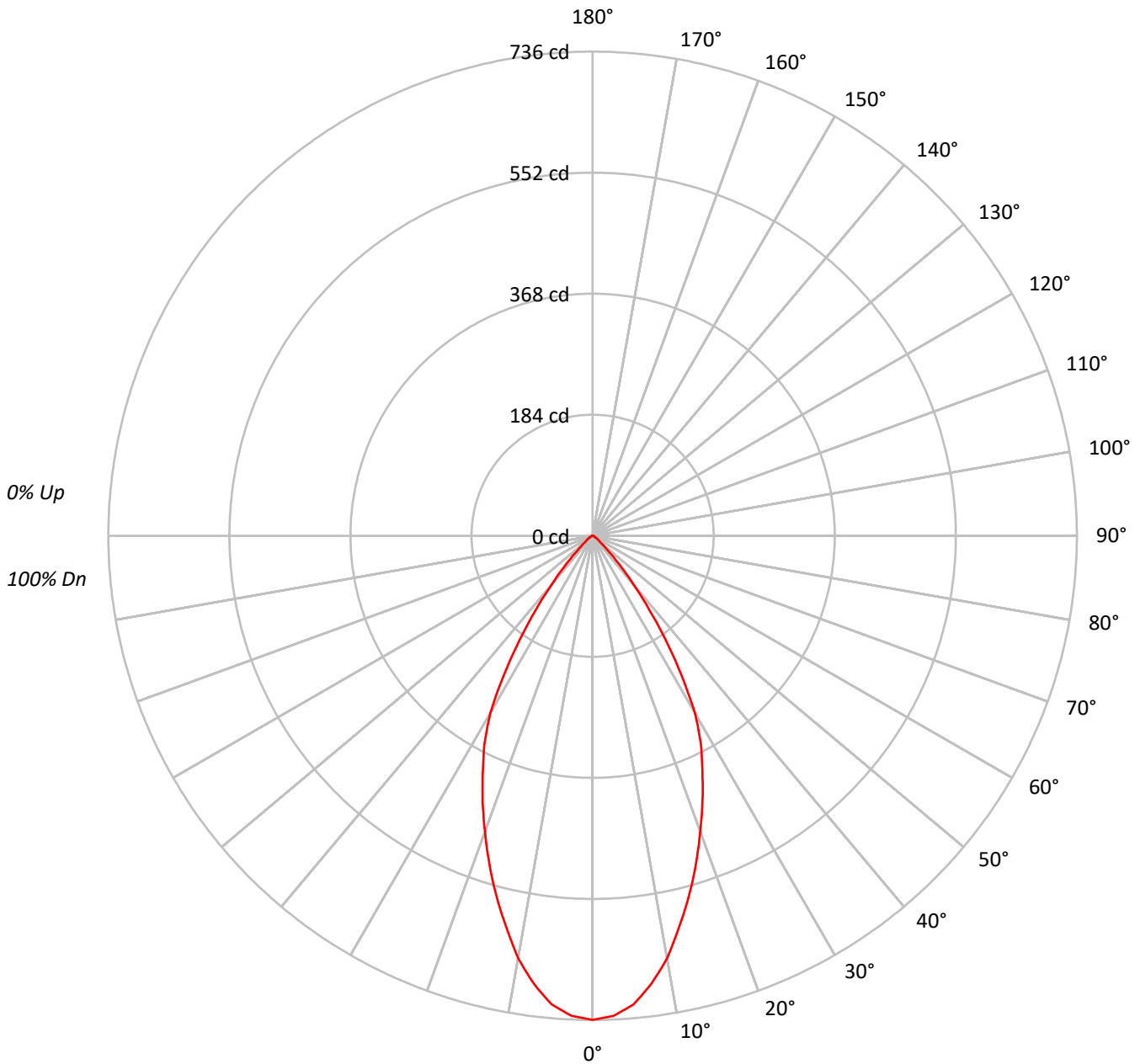
Lumens per Lamp: N/A
Luminaire Lumens: 574.1 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.87
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: P574608

CATALOG NUMBER: FLD6C-08-D010 FEU6C-X-90-40 F6X-N-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P574608

CATALOG NUMBER: FLD6C-08-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	56	53	61	56	53	60	56	52	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40337
5°	39341
10°	36300
15°	32134
20°	27903
25°	23868
30°	19680
35°	12956
40°	6963
45°	3086
50°	1254
55°	898
60°	570
65°	415
70°	337
75°	233
80°	347
85°	0



TEST NUMBER: P574608

CATALOG NUMBER: FLD6C-08-D010 FEU6C-X-90-40 F6X-N-X-H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	11.5
10°-20°	157.8	27.5
20°-30°	180.8	31.5
30°-40°	121.5	21.2
40°-50°	34.7	6.0
50°-60°	8.5	1.5
60°-70°	3.2	0.6
70°-80°	1.3	0.2
80°-90°	0.1	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°	404.7	70.5
0°-40°	526.2	91.7
0°-60°	569.4	99.2
0°-90°	574.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	574.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	736	
5°	715	66
15°	566	158
25°	395	181
35°	194	121
45°	40	35
55°	9	8
65°	3	3
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P574608

CATALOG NUMBER: FLD6C-08-D010 FEU6C-X-90-40 F6X-N-X-H

CANDELA DISTRIBUTION (FULL):

	0°
0°	735.8
2.5°	730.6
5°	714.9
7.5°	686.6
10°	652.1
12.5°	608.1
15°	566.2
17.5°	522.3
20°	478.3
22.5°	436.5
25°	394.6
27.5°	355.9
30°	310.9
32.5°	251.2
35°	193.6
37.5°	141.3
40°	97.3
42.5°	63.8
45°	39.8
47.5°	24.1
50°	14.7
52.5°	11.5
55°	9.4
57.5°	7.3
60°	5.2
62.5°	4.2
65°	3.2
67.5°	2.1
70°	2.1
72.5°	1.1
75°	1.1
77.5°	1.1
80°	1.1
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)