

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: P573795

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

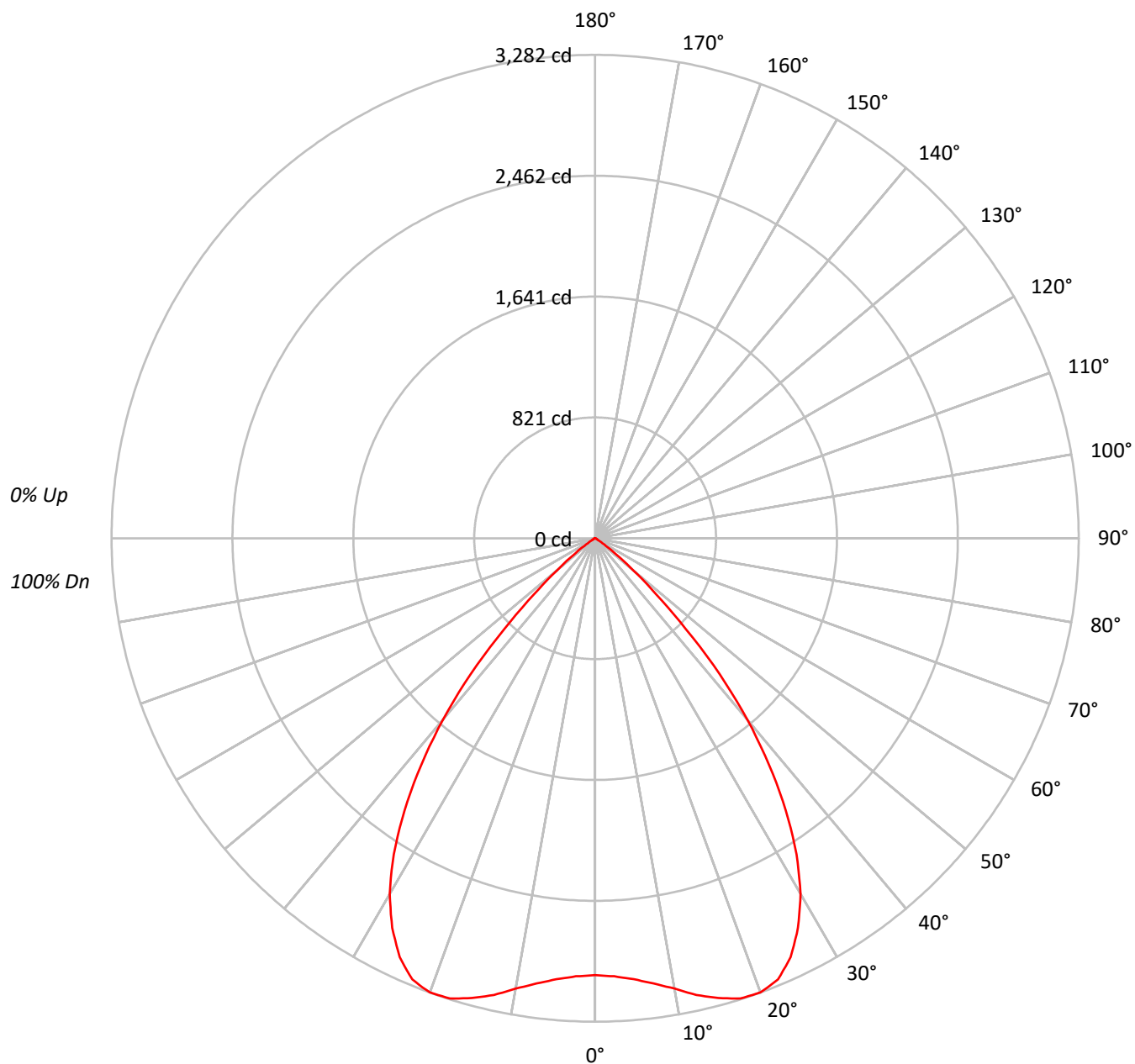
Lumens per Lamp: N/A
Luminaire Lumens: 4840.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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: P573795

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86

Luminous Intensity Polar Plot





TEST NUMBER: P573795

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		110	108	105	103		104	102	100		100	98	97		96	95	94
2	106	101	97	93		104	99	95	92		96	93	90		93	90	88		90	88	86
3	100	93	87	83		98	92	86	82		89	85	81		86	83	80		84	81	78
4	94	86	79	75		92	84	79	74		82	77	73		80	76	72		78	75	72
5	88	79	72	68		87	78	72	67		76	71	67		74	70	66		73	69	65
6	83	73	66	62		82	72	66	61		71	65	61		69	64	60		68	63	60
7	78	68	61	56		77	67	61	56		66	60	56		64	59	55		63	59	55
8	74	63	56	52		72	62	56	51		61	55	51		60	55	51		59	54	51
9	69	59	52	48		68	58	52	47		57	51	47		56	51	47		55	50	47
10	66	55	48	44		65	54	48	44		53	48	44		53	47	44		52	47	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	364310
5°	370499
10°	387245
15°	411018
20°	429017
25°	425300
30°	395517
35°	338362
40°	257801
45°	151207
50°	64601
55°	19020
60°	5455
65°	3227
70°	1976
75°	2611
80°	0
85°	0



TEST NUMBER: P573795

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.0	6.0
10°-20°	915.2	18.9
20°-30°	1427.7	29.5
30°-40°	1389.2	28.7
40°-50°	693.9	14.3
50°-60°	107.4	2.2
60°-70°	13.0	0.3
70°-80°	3.6	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°	2632.9	54.4
0°-40°	4022.1	83.1
0°-60°	4823.4	99.7
0°-90°	4840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4840.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2965	
5°	3004	290
15°	3232	915
25°	3138	1428
35°	2256	1389
45°	870	694
55°	89	107
65°	11	13
75°	6	4
85°	0	0
90°	0	



TEST NUMBER: P573795

CATALOG NUMBER: FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86

CANDELA DISTRIBUTION (FULL):

	0°
0°	2965.4
2.5°	2976.5
5°	3004.3
7.5°	3048.7
10°	3104.2
12.5°	3176.1
15°	3231.6
17.5°	3276.0
20°	3281.5
22.5°	3242.7
25°	3137.5
27.5°	2982.1
30°	2788.1
32.5°	2544.4
35°	2256.1
37.5°	1940.0
40°	1607.5
42.5°	1252.8
45°	870.3
47.5°	559.8
50°	338.0
52.5°	182.9
55°	88.8
57.5°	38.8
60°	22.2
62.5°	16.6
65°	11.1
67.5°	11.1
70°	5.5
72.5°	5.5
75°	5.5
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)