

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: P572312

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-40 F4X-W-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-10-D010 FEU4C-X-90-40 F4X-W-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

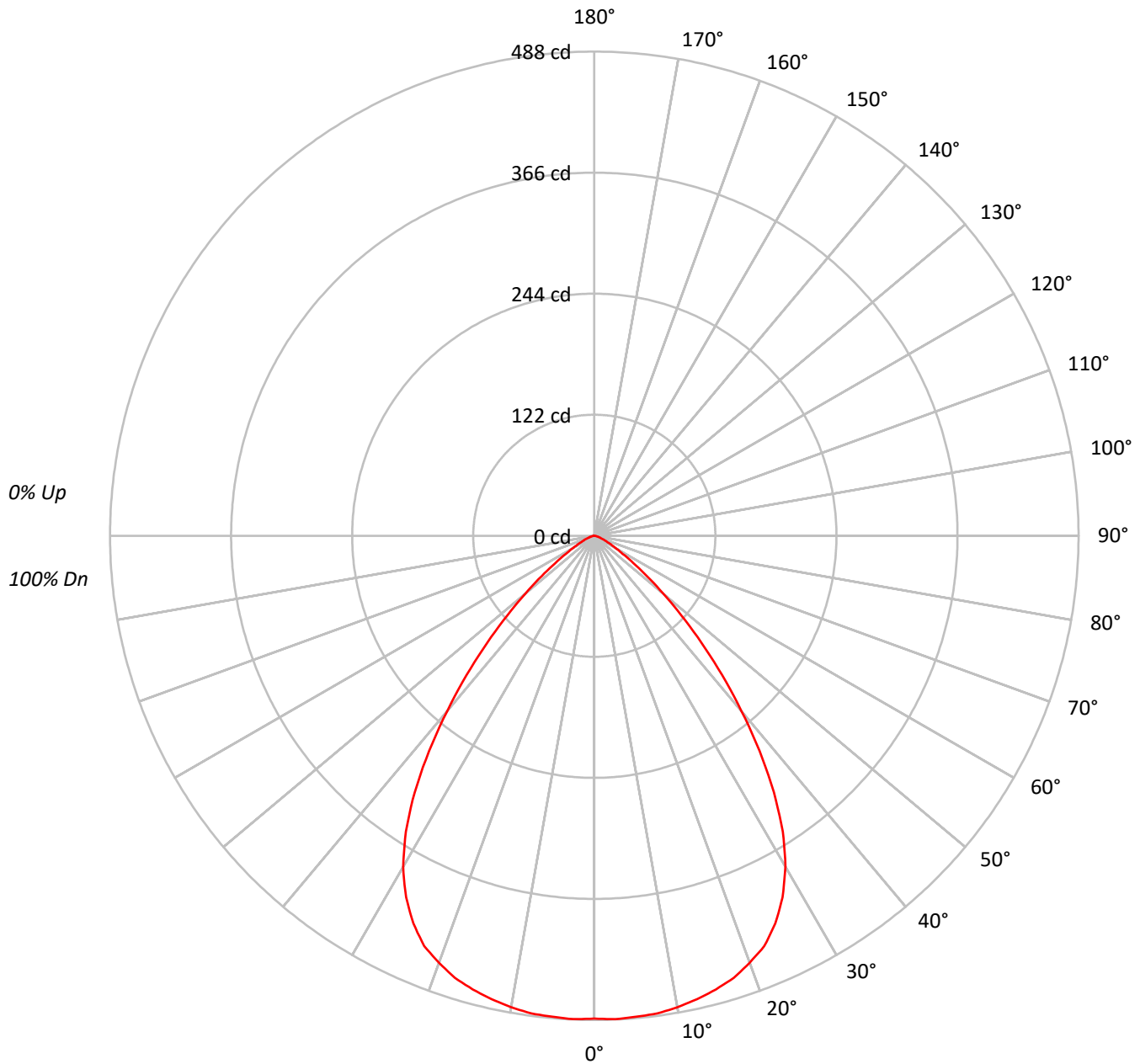
Lumens per Lamp: N/A
Luminaire Lumens: 755.1 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
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: P572312

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-40 F4X-W-X-H-BL85

Luminous Intensity Polar Plot





TEST NUMBER: P572312

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-40 F4X-W-X-H-BL85

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	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91		103	98	93	90		95	91	88		91	88	86		89	86	84
3	99	91	85	80		97	90	84	80		87	82	78		84	80	77		82	79	76
4	92	83	77	72		90	82	76	71		80	75	70		78	73	70		76	72	69
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	62
6	81	71	64	58		80	70	63	58		68	62	58		67	61	57		65	61	57
7	76	65	58	53		75	65	58	53		63	57	53		62	56	52		61	56	52
8	72	60	53	49		70	60	53	49		59	53	48		58	52	48		57	52	48
9	67	56	49	45		66	56	49	45		55	49	44		54	48	44		53	48	44
10	64	52	46	41		63	52	46	41		51	45	41		50	45	41		49	44	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59781
5°	60009
10°	60191
15°	60198
20°	59865
25°	58464
30°	54644
35°	47318
40°	36966
45°	26530
50°	17240
55°	10324
60°	6044
65°	3866
70°	2586
75°	1946
80°	1486
85°	0



TEST NUMBER: P572312

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-40 F4X-W-X-H-BL85

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	6.1
10°-20°	133.5	17.7
20°-30°	197.0	26.1
30°-40°	194.4	25.8
40°-50°	119.0	15.8
50°-60°	45.6	6.0
60°-70°	14.3	1.9
70°-80°	4.2	0.6
80°-90°	0.6	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°	376.9	49.9
0°-40°	571.4	75.7
0°-60°	736.0	97.5
0°-90°	755.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	487	
5°	487	46
15°	473	134
25°	431	197
35°	316	194
45°	153	119
55°	48	46
65°	13	14
75°	4	4
85°	0	1
90°	0	



TEST NUMBER: P572312

CATALOG NUMBER: FLD4C-10-D010 FEU4C-X-90-40 F4X-W-X-H-BL85

CANDELA DISTRIBUTION (FULL):

	0°
0°	486.6
2.5°	487.7
5°	486.6
7.5°	485.6
10°	482.5
12.5°	478.4
15°	473.3
17.5°	467.2
20°	457.9
22.5°	447.7
25°	431.3
27.5°	410.8
30°	385.2
32.5°	353.5
35°	315.5
37.5°	273.5
40°	230.5
42.5°	190.6
45°	152.7
47.5°	118.8
50°	90.2
52.5°	66.6
55°	48.2
57.5°	33.8
60°	24.6
62.5°	18.5
65°	13.3
67.5°	10.3
70°	7.2
72.5°	5.1
75°	4.1
77.5°	2.1
80°	2.1
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)