

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: P572924

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-27 F4X-W-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572924
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-30-D010 FEU4C-X-90-27 F4X-W-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

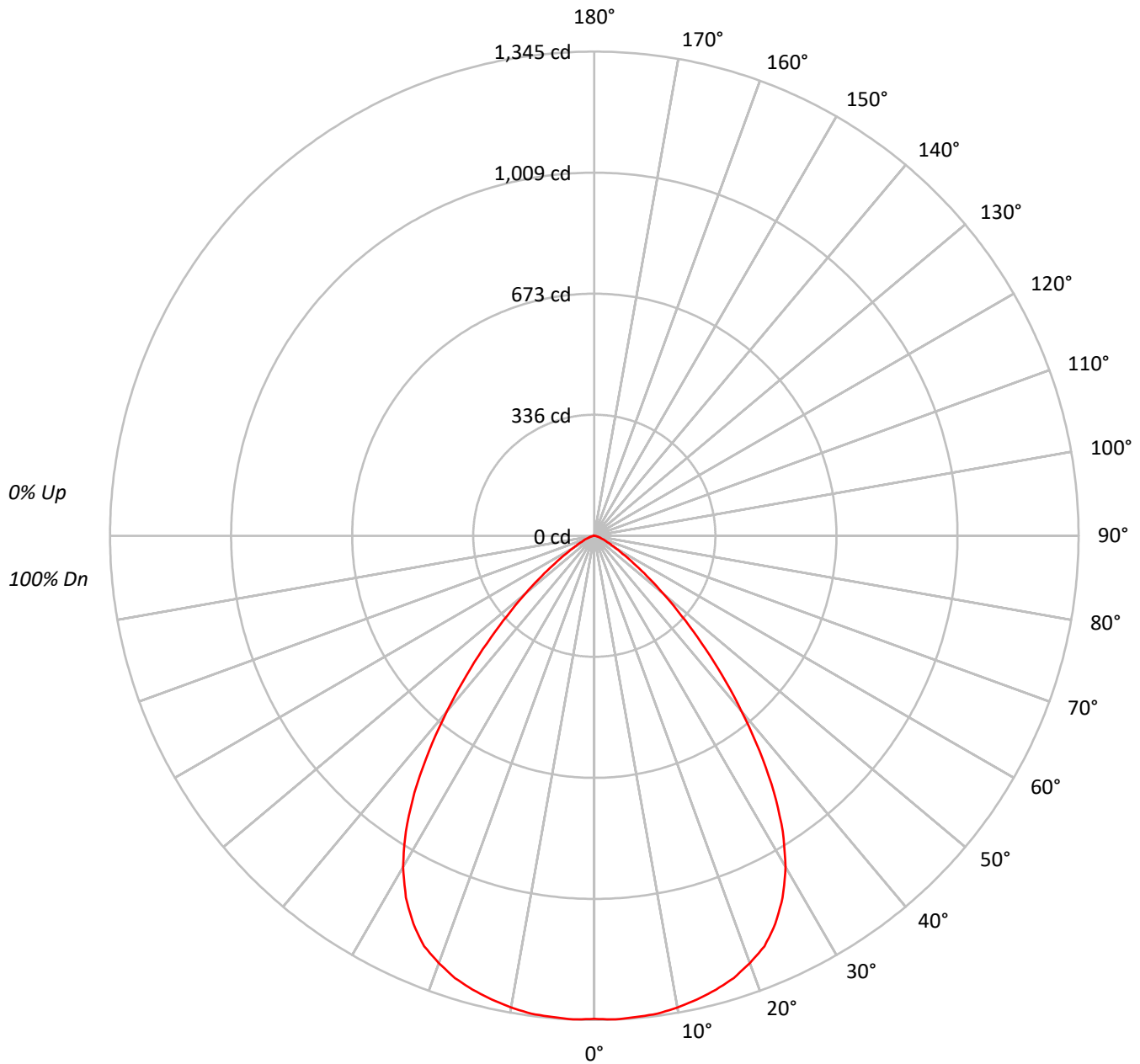
Lumens per Lamp: N/A
Luminaire Lumens: 2082.0 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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: P572924

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-27 F4X-W-X-H-BL85

Luminous Intensity Polar Plot





TEST NUMBER: P572924

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-27 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	68	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°	164869
5°	165499
10°	166003
15°	166005
20°	165096
25°	161228
30°	150697
35°	130494
40°	101934
45°	73145
50°	47514
55°	28444
60°	16634
65°	10698
70°	7112
75°	5364
80°	4033
85°	0



TEST NUMBER: P572924

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-27 F4X-W-X-H-BL85

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	6.1
10°-20°	368.2	17.7
20°-30°	543.4	26.1
30°-40°	536.2	25.8
40°-50°	328.2	15.8
50°-60°	125.8	6.0
60°-70°	39.3	1.9
70°-80°	11.5	0.6
80°-90°	1.5	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°	1039.4	49.9
0°-40°	1575.6	75.7
0°-60°	2029.6	97.5
0°-90°	2082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2082.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1342	
5°	1342	128
15°	1305	368
25°	1189	543
35°	870	536
45°	421	328
55°	133	126
65°	37	39
75°	11	12
85°	0	2
90°	0	



TEST NUMBER: P572924

CATALOG NUMBER: FLD4C-30-D010 FEU4C-X-90-27 F4X-W-X-H-BL85

CANDELA DISTRIBUTION (FULL):

0°	
0°	1342.0
2.5°	1344.8
5°	1342.0
7.5°	1339.1
10°	1330.7
12.5°	1319.4
15°	1305.2
17.5°	1288.2
20°	1262.8
22.5°	1234.6
25°	1189.4
27.5°	1132.8
30°	1062.3
32.5°	974.7
35°	870.1
37.5°	754.3
40°	635.6
42.5°	525.5
45°	421.0
47.5°	327.7
50°	248.6
52.5°	183.7
55°	132.8
57.5°	93.2
60°	67.7
62.5°	50.9
65°	36.8
67.5°	28.3
70°	19.8
72.5°	14.1
75°	11.3
77.5°	5.7
80°	5.7
82.5°	2.8
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)