

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: P572222

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-30 F4X-M-X-LI-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)
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-90-30 F4X-M-X-LI-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

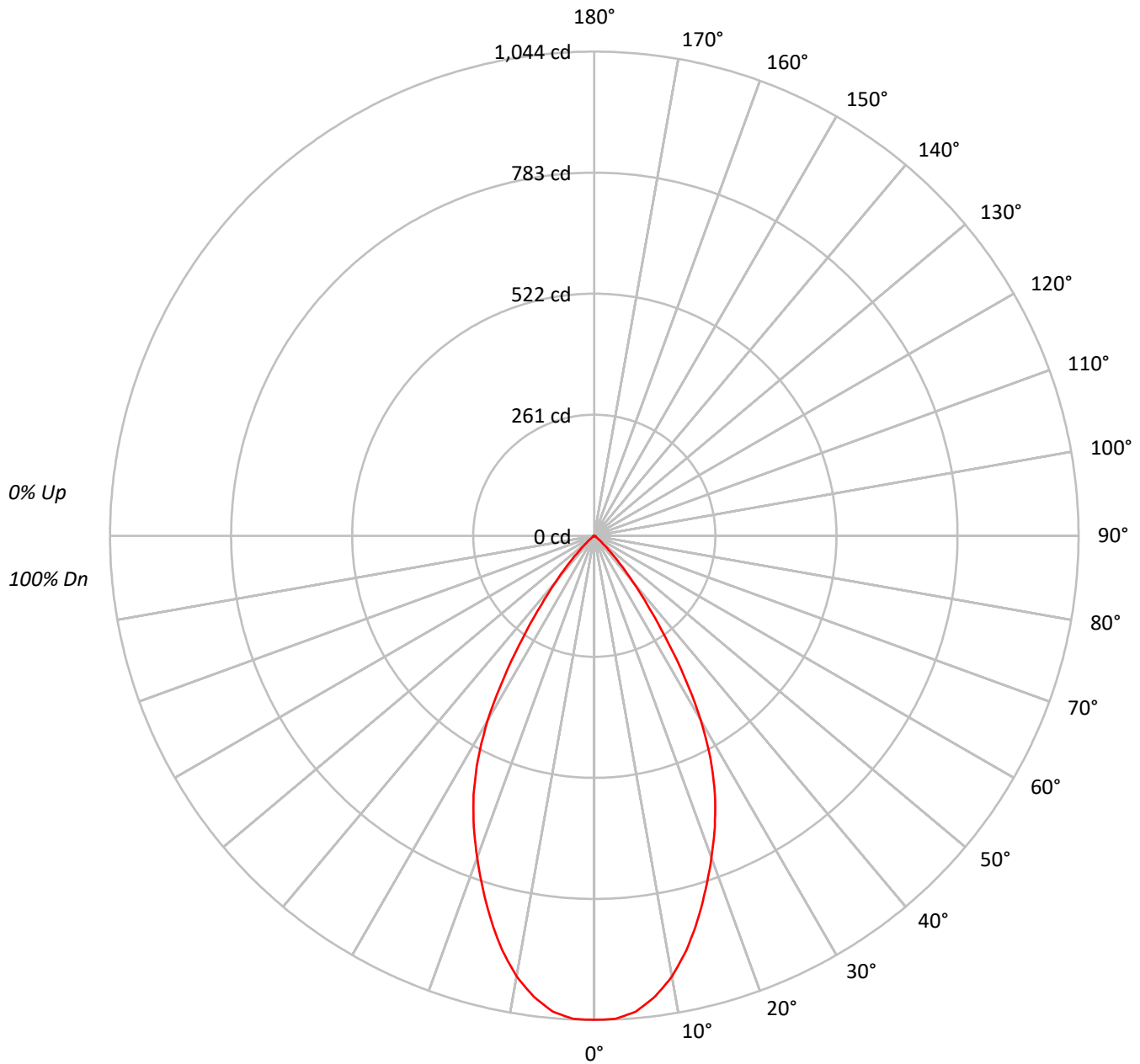
Lumens per Lamp: N/A
Luminaire Lumens: 834.1 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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	114	111	109	106		111	109	107	105		105	103	101		101	100	98		98	97	96
2	108	103	100	96		106	102	98	95		99	96	93		96	93	91		93	91	89
3	103	97	92	88		101	95	91	87		93	89	86		90	87	85		88	85	83
4	98	91	85	81		96	89	84	81		87	83	80		85	82	79		83	80	78
5	93	85	79	75		91	84	79	75		82	78	74		81	77	73		79	76	73
6	89	80	74	70		87	79	74	70		78	73	69		76	72	69		75	71	68
7	84	75	69	65		83	75	69	65		73	68	65		72	68	64		71	67	64
8	80	71	65	61		79	70	65	61		69	64	61		68	64	60		67	63	60
9	77	67	61	57		75	67	61	57		66	61	57		65	60	57		64	60	57
10	73	64	58	54		72	63	58	54		62	57	54		62	57	54		61	57	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	128222
5°	126998
10°	120345
15°	109267
20°	96550
25°	83474
30°	65255
35°	40014
40°	20544
45°	8166
50°	2657
55°	921
60°	786
65°	640
70°	395
75°	522
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	11.5
10°-20°	239.4	28.7
20°-30°	278.3	33.4
30°-40°	170.4	20.4
40°-50°	42.3	5.1
50°-60°	5.0	0.6
60°-70°	1.9	0.2
70°-80°	0.7	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°	613.8	73.6
0°-40°	784.2	94.0
0°-60°	831.5	99.7
0°-90°	834.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1044	
5°	1030	96
15°	859	239
25°	616	278
35°	267	170
45°	47	42
55°	4	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1043.7
2.5°	1042.6
5°	1029.8
7.5°	1002.1
10°	964.7
12.5°	915.6
15°	859.1
17.5°	798.3
20°	738.5
22.5°	678.7
25°	615.8
27.5°	543.2
30°	460.0
32.5°	362.8
35°	266.8
37.5°	187.8
40°	128.1
42.5°	80.0
45°	47.0
47.5°	26.7
50°	13.9
52.5°	6.4
55°	4.3
57.5°	3.2
60°	3.2
62.5°	2.2
65°	2.2
67.5°	1.1
70°	1.1
72.5°	1.1
75°	1.1
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)