

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: P573589

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573589
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-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

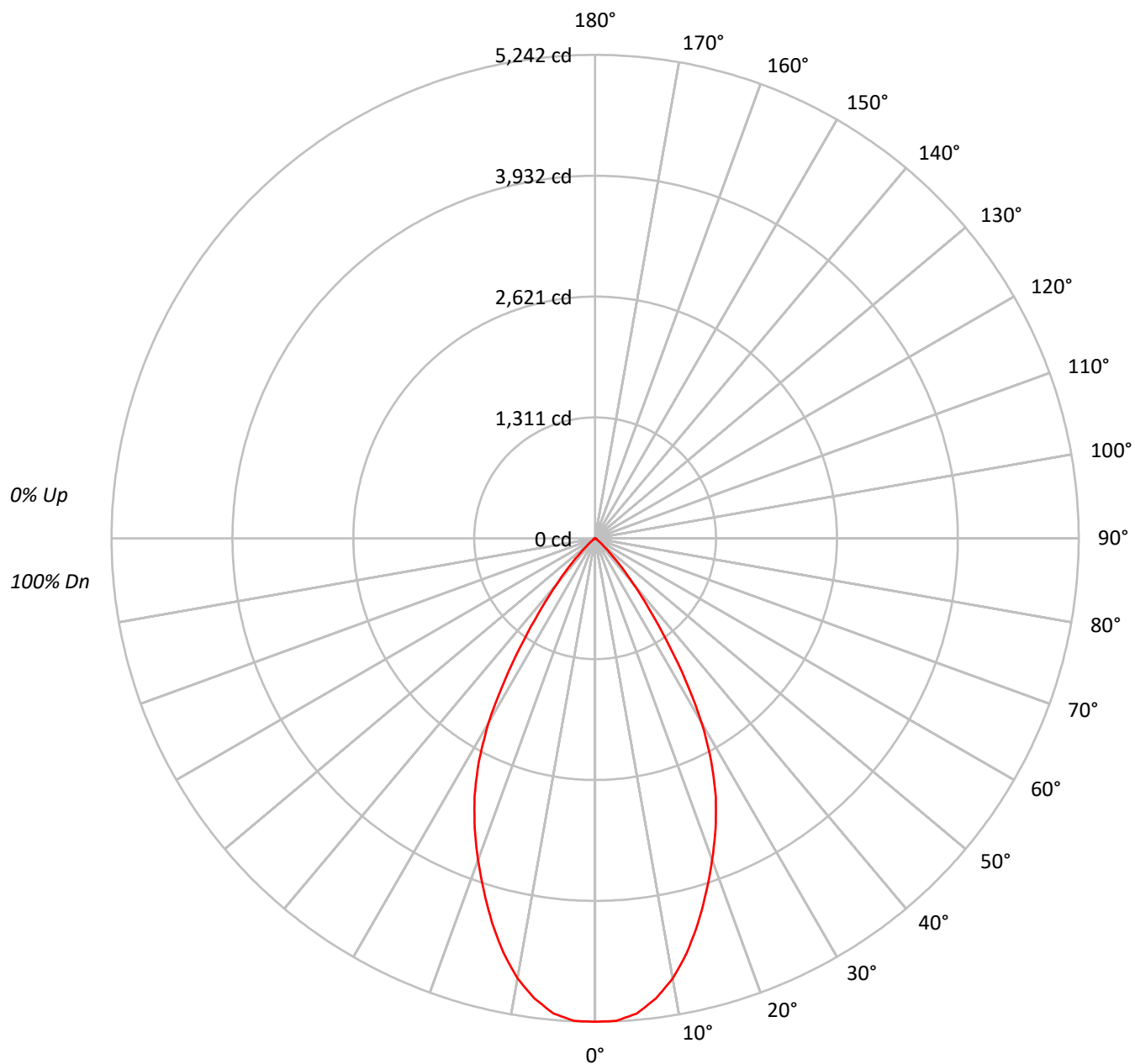
Lumens per Lamp: N/A
Luminaire Lumens: 4189.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	111	109	106		111	109	107	105		105	103	101			101	100	98			94
2	108	103	100	96		106	102	98	95		99	96	93			96	93	91			88
3	103	97	92	88		101	95	91	87		93	89	86			90	87	85			82
4	98	91	85	81		96	89	84	81		87	83	80			85	82	79			76
5	93	85	79	75		91	84	79	75		82	78	74			81	77	73			71
6	89	80	74	70		87	79	74	70		78	73	69			76	72	69			67
7	84	75	69	65		83	75	69	65		73	68	65			72	68	64			63
8	80	71	65	61		79	70	65	61		69	64	61			68	64	60			59
9	77	67	61	57		75	67	61	57		66	61	57			65	60	57			55
10	73	64	58	54		72	63	58	54		62	57	54			62	57	54			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	644035
5°	637912
10°	604482
15°	548813
20°	484959
25°	419254
30°	327737
35°	200983
40°	103152
45°	40986
50°	13302
55°	4584
60°	3931
65°	3140
70°	1940
75°	2563
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.9	11.5
10°-20°	1202.3	28.7
20°-30°	1397.7	33.4
30°-40°	855.9	20.4
40°-50°	212.5	5.1
50°-60°	24.8	0.6
60°-70°	9.3	0.2
70°-80°	3.5	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°	3082.9	73.6
0°-40°	3938.8	94.0
0°-60°	4176.2	99.7
0°-90°	4189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4189.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5242	
5°	5173	483
15°	4315	1202
25°	3093	1398
35°	1340	856
45°	236	213
55°	21	25
65°	11	9
75°	5	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5242.3
2.5°	5236.9
5°	5172.7
7.5°	5033.3
10°	4845.6
12.5°	4599.1
15°	4315.0
17.5°	4009.5
20°	3709.4
22.5°	3409.1
25°	3092.9
27.5°	2728.4
30°	2310.3
32.5°	1822.5
35°	1340.1
37.5°	943.3
40°	643.2
42.5°	402.0
45°	235.9
47.5°	134.0
50°	69.6
52.5°	32.2
55°	21.4
57.5°	16.0
60°	16.0
62.5°	10.8
65°	10.8
67.5°	5.4
70°	5.4
72.5°	5.4
75°	5.4
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)