

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: P572345

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-50 F4X-N-X-LI-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
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-90-50 F4X-N-X-LI-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNLI TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

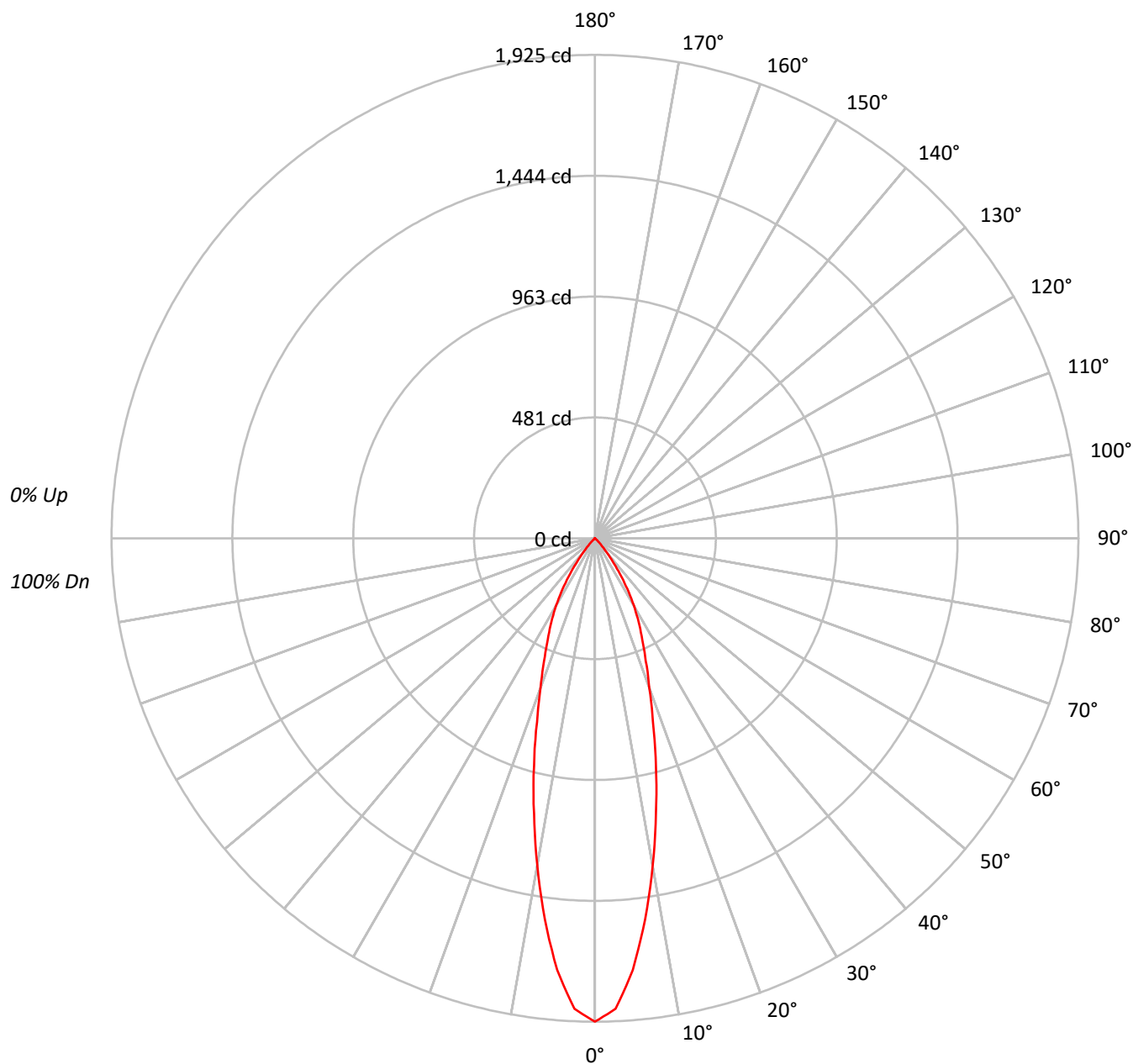
Lumens per Lamp: N/A
Luminaire Lumens: 748.1 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	114	112	110	108	112	110	108	106	106	104	103		102	101	100		99
2	109	105	102	99	107	103	100	98	100	98	95		97	95	93		95
3	105	99	95	92	103	98	94	91	95	92	89		93	90	88		91
4	101	94	89	86	99	93	88	85	91	87	84		89	86	83		87
5	96	89	84	80	95	88	84	80	87	82	79		85	81	79		83
6	92	85	80	76	91	84	79	76	83	78	75		81	78	75		80
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77
8	85	77	72	68	84	77	72	68	76	71	68		75	71	68		74
9	82	74	69	65	81	73	68	65	72	68	65		72	68	65		71
10	79	71	66	62	78	70	65	62	69	65	62		69	65	62		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	236481
5°	212806
10°	164980
15°	119403
20°	82679
25°	60281
30°	43792
35°	25916
40°	10905
45°	3405
50°	440
55°	257
60°	295
65°	349
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	20.3
10°-20°	259.7	34.7
20°-30°	206.4	27.6
30°-40°	109.3	14.6
40°-50°	18.8	2.5
50°-60°	1.4	0.2
60°-70°	0.7	0.1
70°-80°	0.0	0.0
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°	617.8	82.6
0°-40°	727.1	97.2
0°-60°	747.3	99.9
0°-90°	748.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	748.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1925	
5°	1726	152
15°	939	260
25°	445	206
35°	173	109
45°	20	19
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1924.9
2.5°	1875.4
5°	1725.6
7.5°	1529.8
10°	1322.5
12.5°	1122.0
15°	938.8
17.5°	768.3
20°	632.4
22.5°	528.7
25°	444.7
27.5°	376.7
30°	308.7
32.5°	239.6
35°	172.8
37.5°	114.1
40°	68.0
42.5°	39.2
45°	19.6
47.5°	6.9
50°	2.3
52.5°	2.3
55°	1.2
57.5°	1.2
60°	1.2
62.5°	1.2
65°	1.2
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)