

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: P573785

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573785
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-50-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

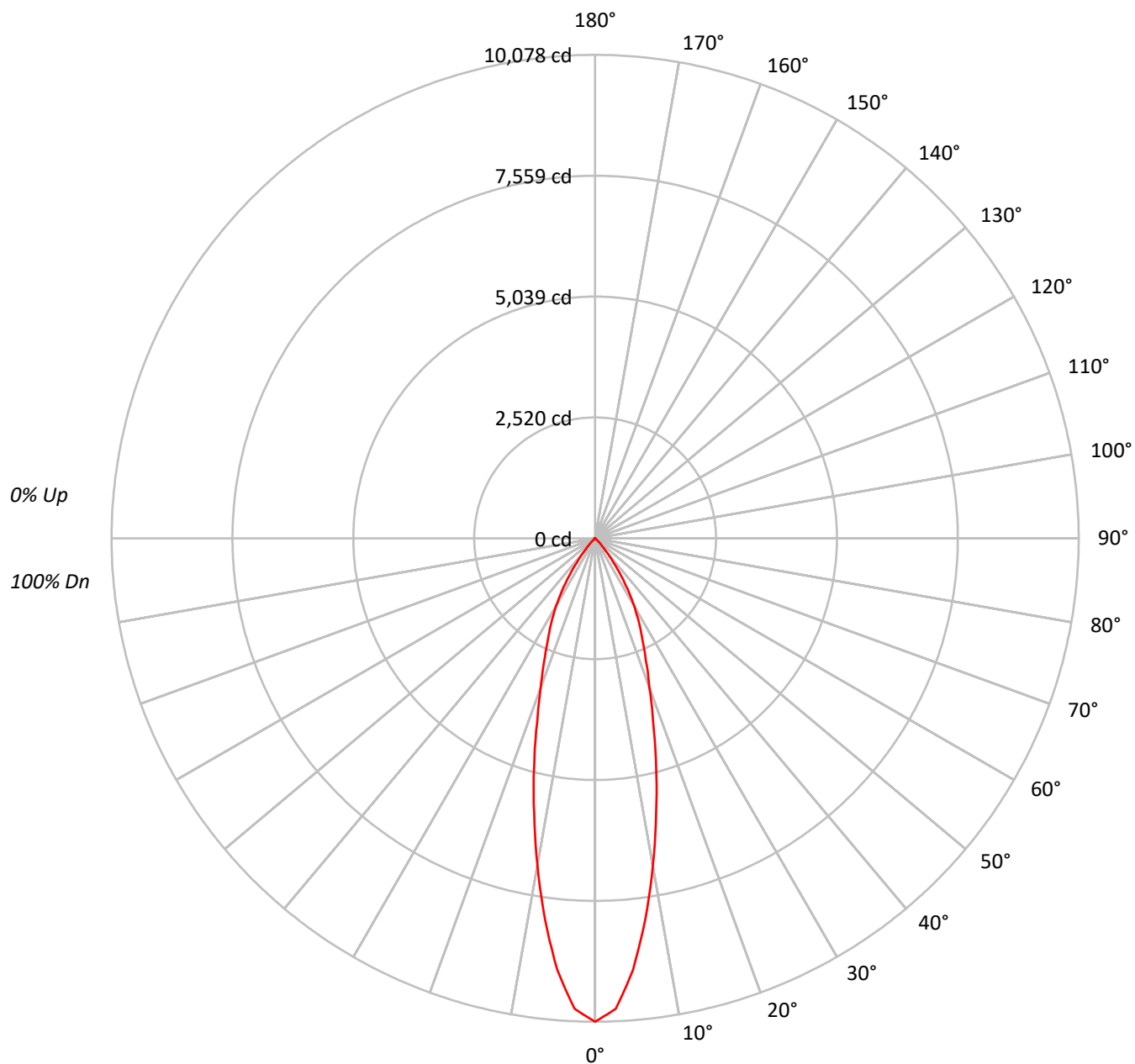
Lumens per Lamp: N/A
Luminaire Lumens: 3916.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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	112	110	108		112	110	108	106		106	104	103		102	101	100		99	98	97
2	109	105	102	99		107	103	100	98		100	98	95		97	95	93		95	93	92
3	105	99	95	92		103	98	94	91		95	92	89		93	90	88		91	89	87
4	101	94	89	86		99	93	88	85		91	87	84		89	86	83		87	84	82
5	96	89	84	80		95	88	84	80		87	82	79		85	81	79		83	80	78
6	92	85	80	76		91	84	79	76		83	78	75		81	78	75		80	77	74
7	89	81	76	72		88	80	75	72		79	75	71		78	74	71		77	73	71
8	85	77	72	68		84	77	72	68		76	71	68		75	71	68		74	70	67
9	82	74	69	65		81	73	68	65		72	68	65		72	68	65		71	67	64
10	79	71	66	62		78	70	65	62		69	65	62		69	65	62		68	64	62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1238056
5°	1114122
10°	863698
15°	625138
20°	432860
25°	315569
30°	229287
35°	135684
40°	57061
45°	17791
50°	2313
55°	1285
60°	1474
65°	1744
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.2	20.3
10°-20°	1359.6	34.7
20°-30°	1080.6	27.6
30°-40°	572.0	14.6
40°-50°	98.5	2.5
50°-60°	7.4	0.2
60°-70°	3.7	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°	3234.4	82.6
0°-40°	3806.4	97.2
0°-60°	3912.3	99.9
0°-90°	3916.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3916.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10078	
5°	9034	794
15°	4915	1360
25°	2328	1081
35°	905	572
45°	102	99
55°	6	7
65°	6	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10077.5
2.5°	9818.1
5°	9034.2
7.5°	8009.0
10°	6923.5
12.5°	5874.1
15°	4915.1
17.5°	4022.5
20°	3310.9
22.5°	2768.1
25°	2328.0
27.5°	1972.1
30°	1616.3
32.5°	1254.4
35°	904.7
37.5°	597.2
40°	355.8
42.5°	205.1
45°	102.4
47.5°	36.2
50°	12.1
52.5°	12.1
55°	6.0
57.5°	6.0
60°	6.0
62.5°	6.0
65°	6.0
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)