

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: P573798

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
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-W-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

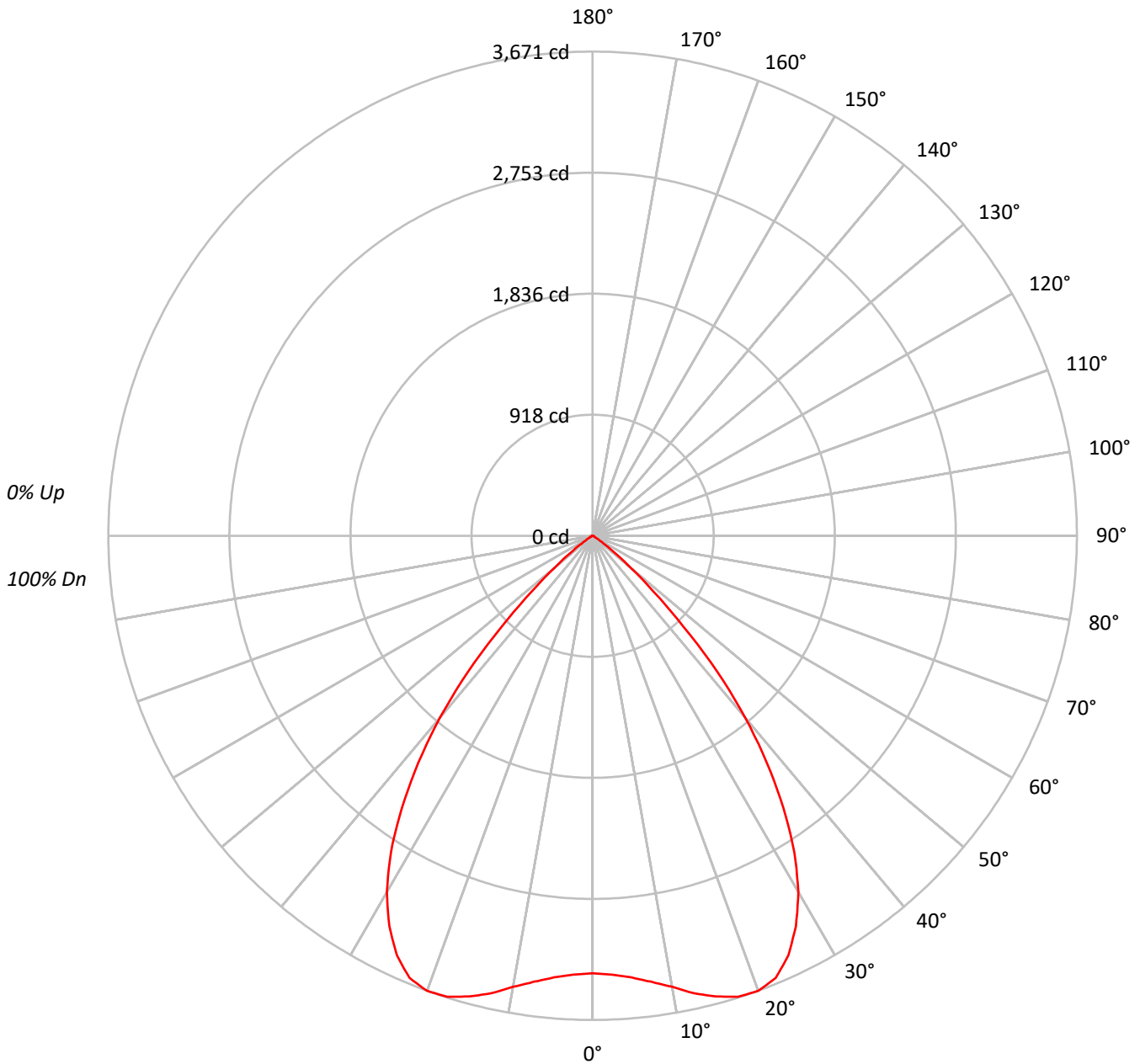
Lumens per Lamp: N/A
Luminaire Lumens: 5414.9 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100				100															
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84															
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77				77															
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70				70															
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				64															
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58				58															
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54				54															
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49				49															
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45															
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	407591
5°	414512
10°	433252
15°	459846
20°	479991
25°	475821
30°	442501
35°	378555
40°	288416
45°	169172
50°	72284
55°	21269
60°	6094
65°	3605
70°	2227
75°	2943
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.5	6.0
10°-20°	1023.9	18.9
20°-30°	1597.3	29.5
30°-40°	1554.2	28.7
40°-50°	776.3	14.3
50°-60°	120.2	2.2
60°-70°	14.5	0.3
70°-80°	4.1	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°	2945.7	54.4
0°-40°	4499.9	83.1
0°-60°	5396.4	99.7
0°-90°	5414.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5414.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3318	
5°	3361	324
15°	3616	1024
25°	3510	1597
35°	2524	1554
45°	974	776
55°	99	120
65°	12	15
75°	6	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3317.7
2.5°	3330.2
5°	3361.2
7.5°	3410.9
10°	3473.0
12.5°	3553.4
15°	3615.5
17.5°	3665.2
20°	3671.4
22.5°	3627.9
25°	3510.2
27.5°	3336.4
30°	3119.3
32.5°	2846.7
35°	2524.1
37.5°	2170.4
40°	1798.4
42.5°	1401.6
45°	973.7
47.5°	626.3
50°	378.2
52.5°	204.6
55°	99.3
57.5°	43.5
60°	24.8
62.5°	18.6
65°	12.4
67.5°	12.4
70°	6.2
72.5°	6.2
75°	6.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)