

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: P573788

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-50 F4X-W-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
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-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

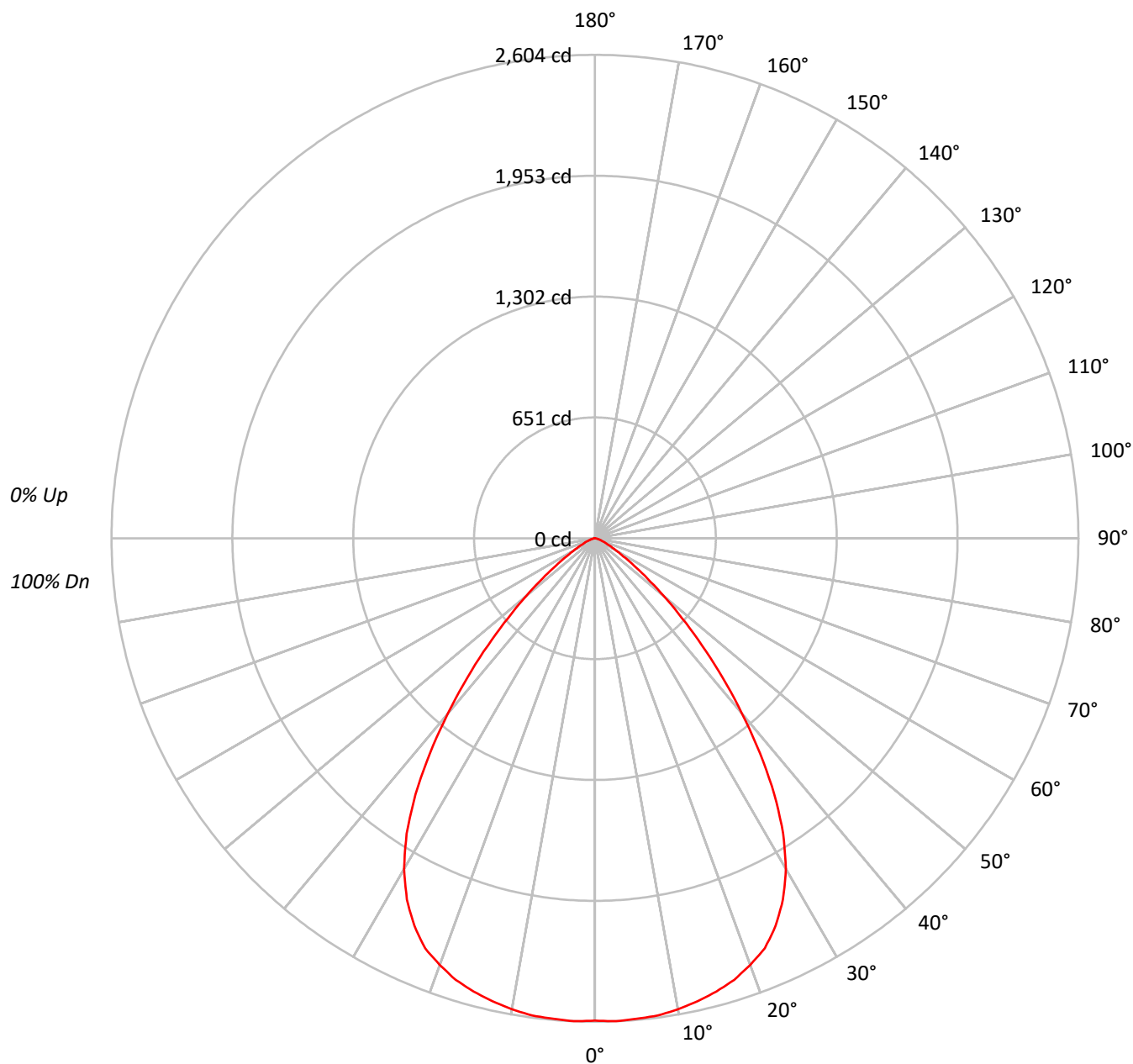
Lumens per Lamp: N/A
Luminaire Lumens: 4031.1 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	112	109	106	104		110	107	104	102		103	101	99			99	97	96			96
2	105	100	95	91		103	98	93	90		95	91	88			91	88	86			89
3	99	91	85	80		97	90	84	80		87	82	78			84	80	77			82
4	92	83	77	72		90	82	76	71		80	75	70			78	73	70			76
5	87	77	70	65		85	76	69	64		74	68	64			72	67	63			70
6	81	71	64	58		80	70	63	58		68	62	58			67	61	57			65
7	76	65	58	53		75	65	58	53		63	57	53			62	56	52			61
8	72	60	53	49		70	60	53	49		59	53	48			58	52	48			57
9	68	56	49	45		66	56	49	45		55	49	44			54	48	44			53
10	64	52	46	41		63	52	46	41		51	45	41			50	45	41			49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	319198
5°	320417
10°	321390
15°	321402
20°	319641
25°	312153
30°	291761
35°	252650
40°	197372
45°	141616
50°	91989
55°	55068
60°	32237
65°	20698
70°	13757
75°	10395
80°	7782
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	6.1
10°-20°	712.9	17.7
20°-30°	1052.0	26.1
30°-40°	1038.2	25.8
40°-50°	635.4	15.8
50°-60°	243.6	6.0
60°-70°	76.2	1.9
70°-80°	22.4	0.6
80°-90°	3.0	0.1
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°	2012.4	49.9
0°-40°	3050.6	75.7
0°-60°	3929.5	97.5
0°-90°	4031.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4031.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2598	
5°	2598	247
15°	2527	713
25°	2303	1052
35°	1685	1038
45°	815	635
55°	257	244
65°	71	76
75°	22	22
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2598.2
2.5°	2603.7
5°	2598.2
7.5°	2592.7
10°	2576.3
12.5°	2554.4
15°	2527.0
17.5°	2494.2
20°	2444.9
22.5°	2390.4
25°	2302.8
27.5°	2193.3
30°	2056.7
32.5°	1887.2
35°	1684.6
37.5°	1460.4
40°	1230.7
42.5°	1017.4
45°	815.1
47.5°	634.4
50°	481.3
52.5°	355.6
55°	257.1
57.5°	180.4
60°	131.2
62.5°	98.6
65°	71.2
67.5°	54.8
70°	38.3
72.5°	27.4
75°	21.9
77.5°	11.0
80°	11.0
82.5°	5.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)