

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: P573428

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-50 F4X-W-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573428
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-40-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

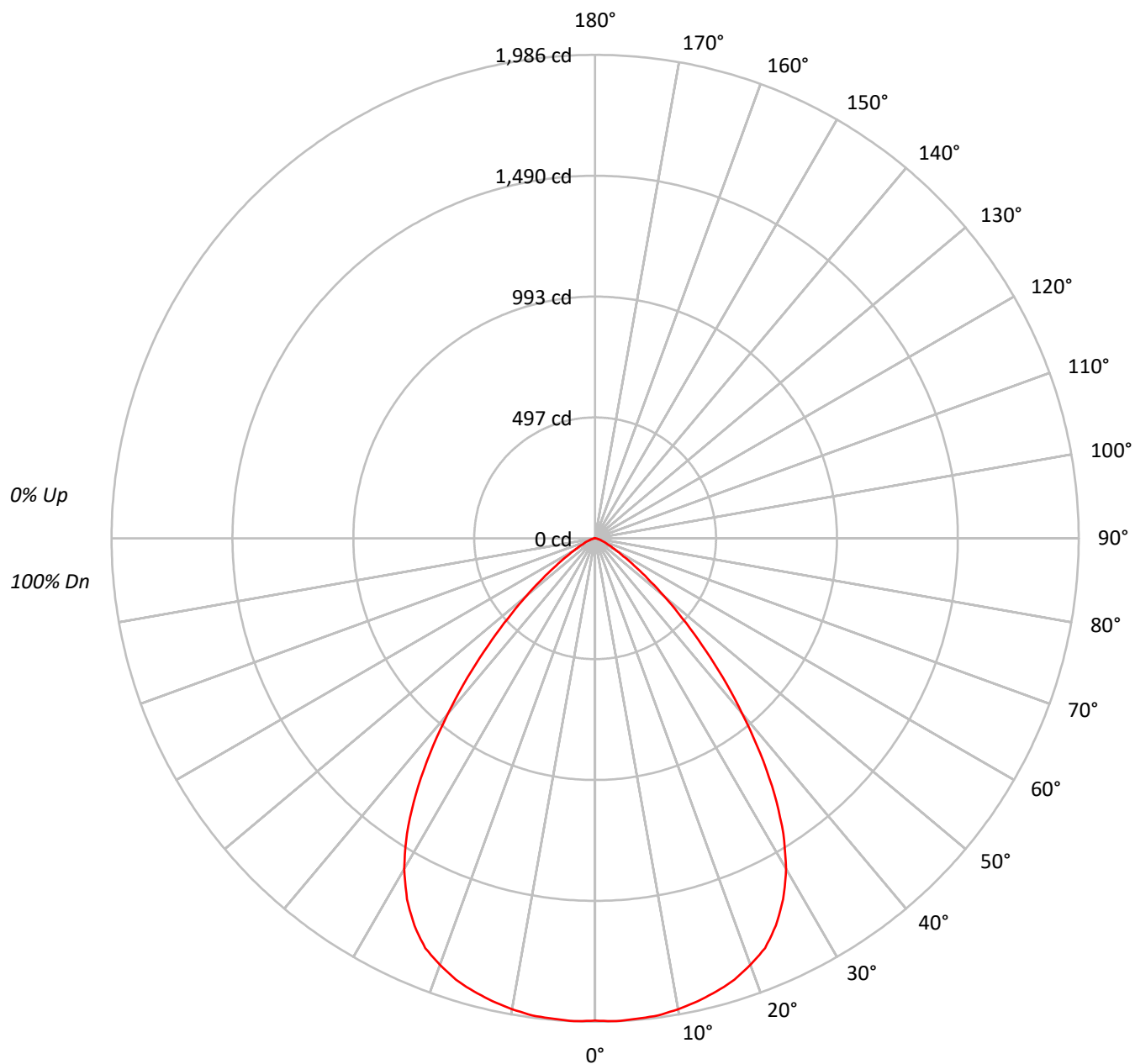
Lumens per Lamp: N/A
Luminaire Lumens: 3074.1 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	243422
5°	244352
10°	245094
15°	245103
20°	243761
25°	238046
30°	222492
35°	192675
40°	150511
45°	107997
50°	70143
55°	42002
60°	24571
65°	15785
70°	10489
75°	7927
80°	5943
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	6.1
10°-20°	543.7	17.7
20°-30°	802.3	26.1
30°-40°	791.7	25.8
40°-50°	484.5	15.8
50°-60°	185.7	6.0
60°-70°	58.1	1.9
70°-80°	17.1	0.6
80°-90°	2.3	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°	1534.7	49.9
0°-40°	2326.4	75.7
0°-60°	2996.7	97.5
0°-90°	3074.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3074.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1981	
5°	1981	189
15°	1927	544
25°	1756	802
35°	1285	792
45°	622	485
55°	196	186
65°	54	58
75°	17	17
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1981.4
2.5°	1985.6
5°	1981.4
7.5°	1977.2
10°	1964.7
12.5°	1948.0
15°	1927.1
17.5°	1902.0
20°	1864.5
22.5°	1822.9
25°	1756.1
27.5°	1672.6
30°	1568.4
32.5°	1439.2
35°	1284.7
37.5°	1113.7
40°	938.5
42.5°	775.8
45°	621.6
47.5°	483.8
50°	367.0
52.5°	271.2
55°	196.1
57.5°	137.6
60°	100.0
62.5°	75.2
65°	54.3
67.5°	41.8
70°	29.2
72.5°	20.9
75°	16.7
77.5°	8.4
80°	8.4
82.5°	4.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)