

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: P573501

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-30 F4X-W-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573501
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-45-D010 FEU4C-X-90-30 F4X-W-X-H-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

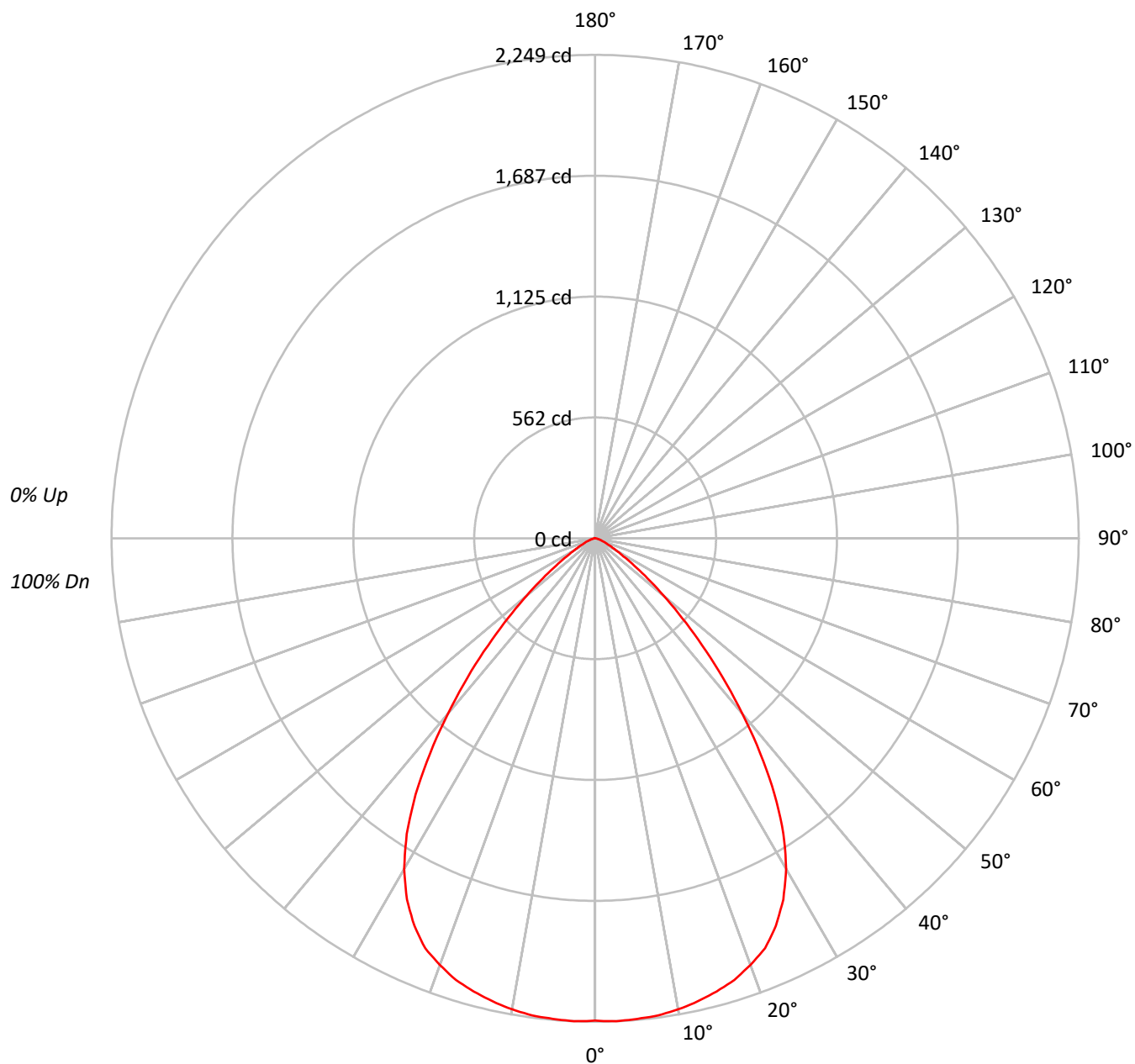
Lumens per Lamp: N/A
Luminaire Lumens: 3482.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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°	275732
5°	276786
10°	277616
15°	277637
20°	276105
25°	269644
30°	252027
35°	218246
40°	170493
45°	122314
50°	79470
55°	47571
60°	27839
65°	17878
70°	11890
75°	8971
80°	6721
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	6.1
10°-20°	615.8	17.7
20°-30°	908.8	26.1
30°-40°	896.8	25.8
40°-50°	548.8	15.8
50°-60°	210.4	6.0
60°-70°	65.8	1.9
70°-80°	19.3	0.6
80°-90°	2.6	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°	1738.4	49.9
0°-40°	2635.2	75.7
0°-60°	3394.4	97.5
0°-90°	3482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3482.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2244	
5°	2244	214
15°	2183	616
25°	1989	909
35°	1455	897
45°	704	549
55°	222	210
65°	62	66
75°	19	19
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2244.4
2.5°	2249.1
5°	2244.4
7.5°	2239.6
10°	2225.4
12.5°	2206.5
15°	2182.9
17.5°	2154.5
20°	2111.9
22.5°	2064.9
25°	1989.2
27.5°	1894.6
30°	1776.6
32.5°	1630.2
35°	1455.2
37.5°	1261.5
40°	1063.1
42.5°	878.8
45°	704.0
47.5°	548.0
50°	415.8
52.5°	307.2
55°	222.1
57.5°	155.9
60°	113.3
62.5°	85.1
65°	61.5
67.5°	47.3
70°	33.1
72.5°	23.6
75°	18.9
77.5°	9.5
80°	9.5
82.5°	4.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)