

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: P573612

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573612
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-90-50 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

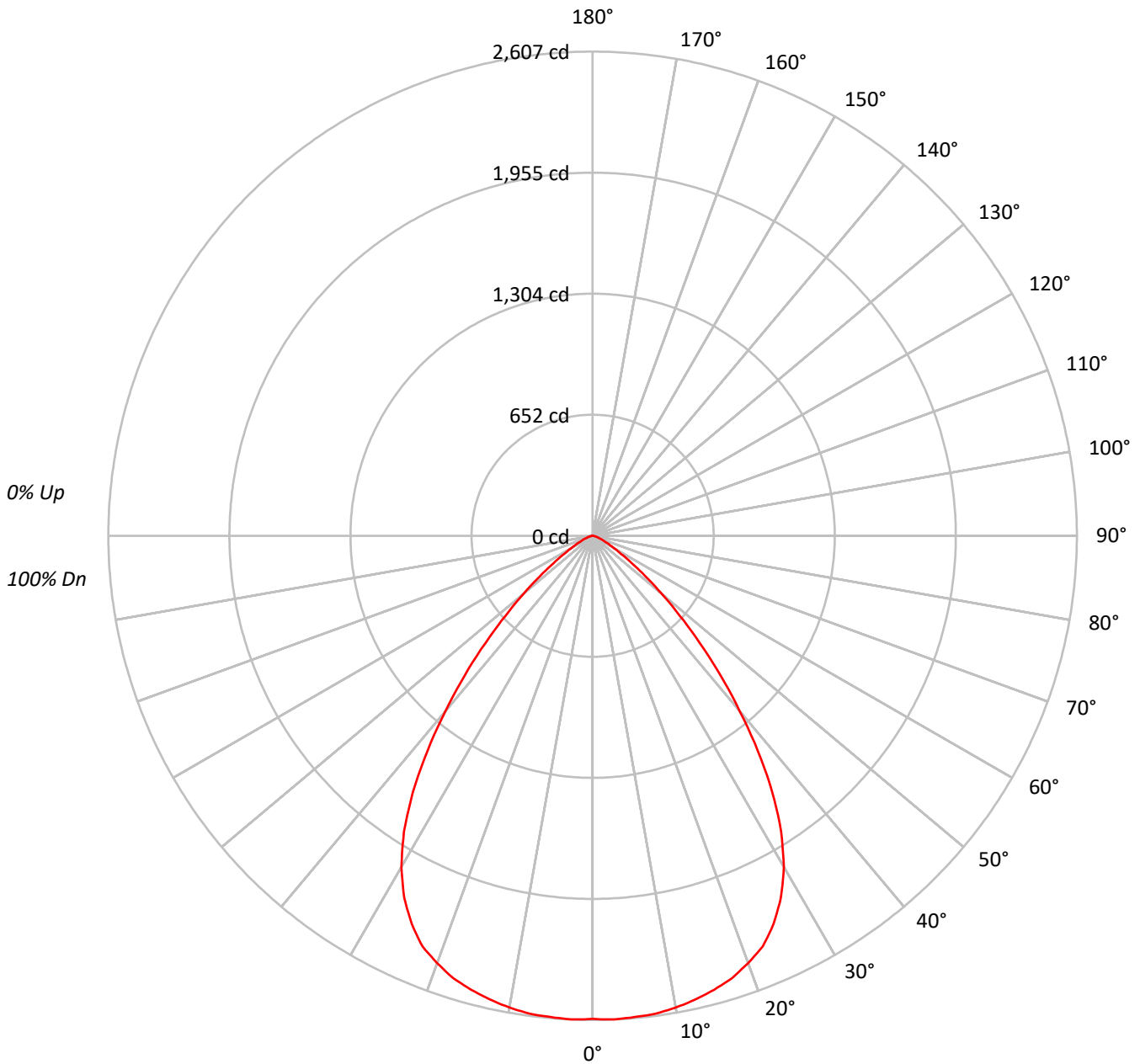
Lumens per Lamp: N/A
Luminaire Lumens: 4036.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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

TEST NUMBER: P573612

CATALOG NUMBER: FLD4C-45-D010 FEU4C-X-90-50 F4X-W-X-H

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																			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91																			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82																			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74																			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61																			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55																			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50																			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43																			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	319591
5°	320812
10°	321789
15°	321809
20°	320033
25°	312546
30°	292116
35°	252965
40°	197613
45°	141790
50°	92104
55°	55132
60°	32261
65°	20727
70°	13793
75°	10395
80°	7782
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.7	6.1
10°-20°	713.8	17.7
20°-30°	1053.4	26.1
30°-40°	1039.5	25.8
40°-50°	636.1	15.8
50°-60°	243.9	6.0
60°-70°	76.3	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°	2014.9	49.9
0°-40°	3054.4	75.7
0°-60°	3934.4	97.5
0°-90°	4036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4036.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2601	
5°	2601	248
15°	2530	714
25°	2306	1053
35°	1687	1039
45°	816	636
55°	257	244
65°	71	76
75°	22	22
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2601.4
2.5°	2606.9
5°	2601.4
7.5°	2596.0
10°	2579.5
12.5°	2557.6
15°	2530.2
17.5°	2497.3
20°	2447.9
22.5°	2393.4
25°	2305.7
27.5°	2196.0
30°	2059.2
32.5°	1889.5
35°	1686.7
37.5°	1462.2
40°	1232.2
42.5°	1018.6
45°	816.1
47.5°	635.2
50°	481.9
52.5°	356.1
55°	257.4
57.5°	180.7
60°	131.3
62.5°	98.7
65°	71.3
67.5°	54.8
70°	38.4
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)