

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: P572568

Luminaire Tested: **FLD4C-20-D010 FEU4C-X-90-27 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572568
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-20-D010 FEU4C-X-90-27 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

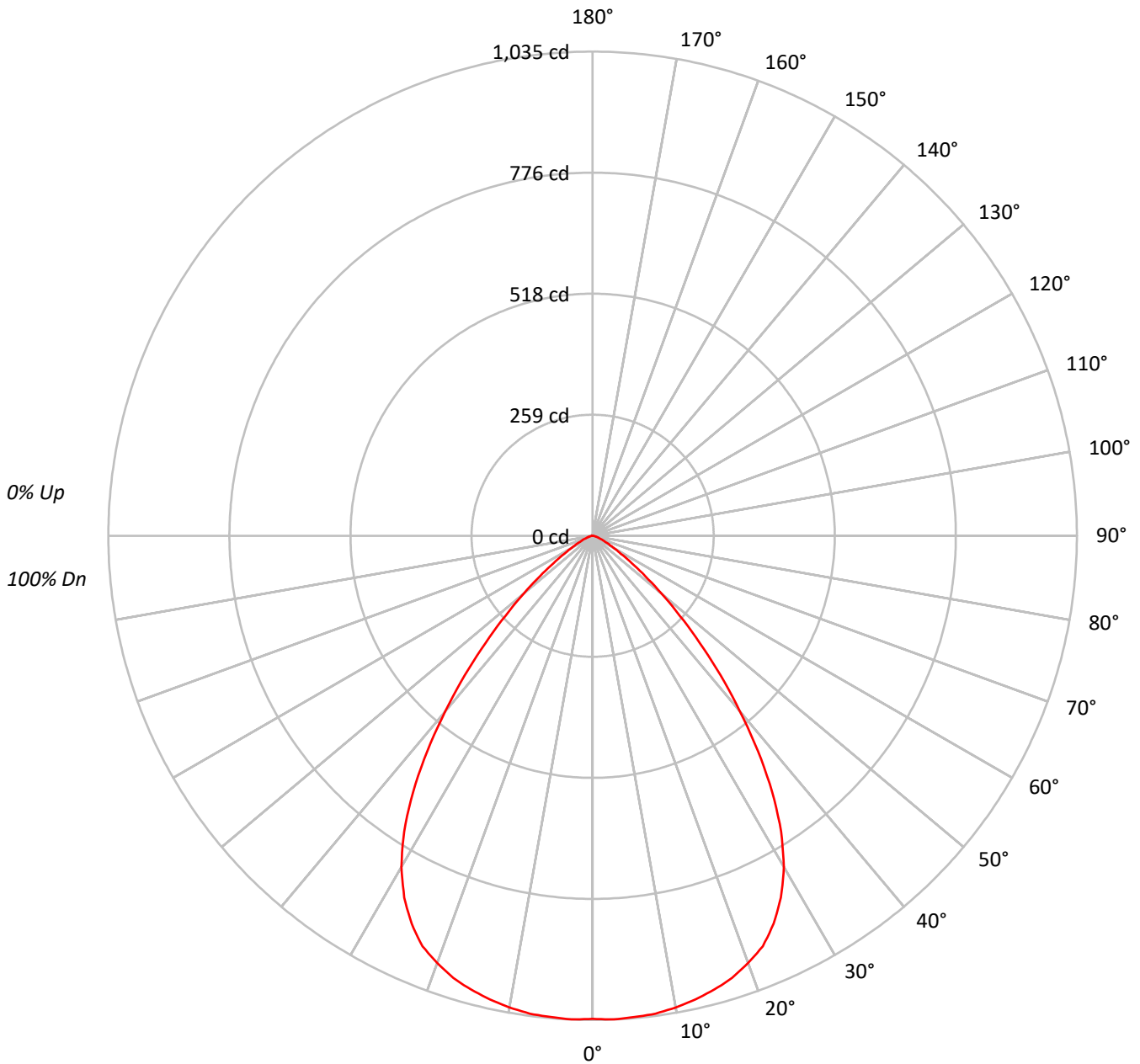
Lumens per Lamp: N/A
Luminaire Lumens: 1602.1 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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: P572568

CATALOG NUMBER: FLD4C-20-D010 FEU4C-X-90-27 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	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°	126858
5°	127343
10°	127730
15°	127734
20°	127038
25°	124059
30°	115956
35°	100409
40°	78439
45°	56275
50°	36562
55°	21890
60°	12801
65°	8227
70°	5460
75°	4130
80°	3113
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	6.1
10°-20°	283.3	17.7
20°-30°	418.1	26.1
30°-40°	412.6	25.8
40°-50°	252.5	15.8
50°-60°	96.8	6.0
60°-70°	30.3	1.9
70°-80°	8.9	0.6
80°-90°	1.2	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°	799.8	49.9
0°-40°	1212.4	75.7
0°-60°	1561.7	97.5
0°-90°	1602.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1602.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1033	
5°	1033	98
15°	1004	283
25°	915	418
35°	670	413
45°	324	252
55°	102	97
65°	28	30
75°	9	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1032.6
2.5°	1034.8
5°	1032.6
7.5°	1030.4
10°	1023.9
12.5°	1015.2
15°	1004.3
17.5°	991.2
20°	971.7
22.5°	950.0
25°	915.2
27.5°	871.7
30°	817.4
32.5°	750.0
35°	669.5
37.5°	580.4
40°	489.1
42.5°	404.3
45°	323.9
47.5°	252.1
50°	191.3
52.5°	141.3
55°	102.2
57.5°	71.7
60°	52.1
62.5°	39.2
65°	28.3
67.5°	21.8
70°	15.2
72.5°	10.9
75°	8.7
77.5°	4.4
80°	4.4
82.5°	2.2
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)