

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: P572783

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-30 F4X-W-X-H-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572783
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-25-D010 FEU4C-X-90-30 F4X-W-X-H-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

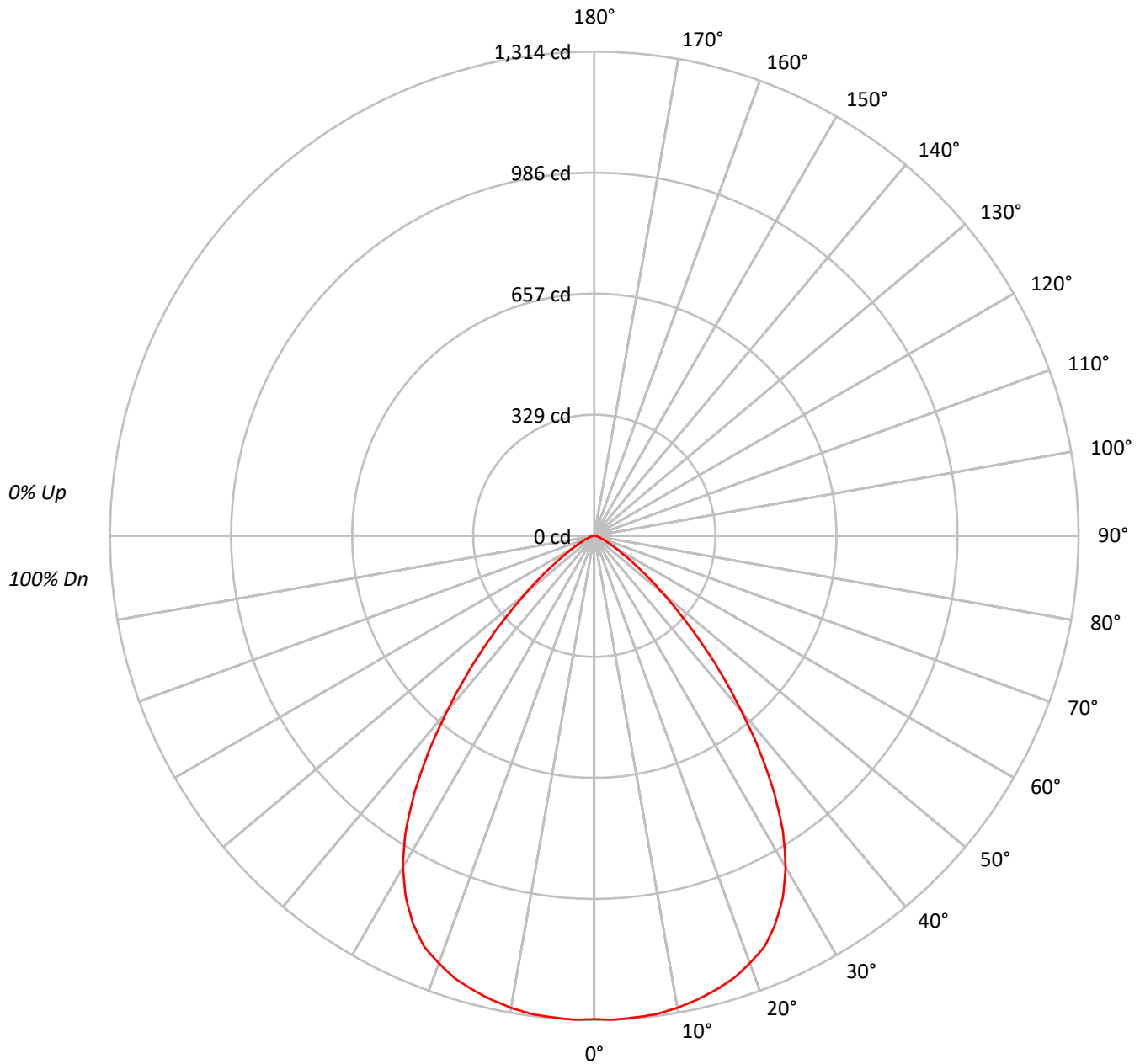
Lumens per Lamp: N/A
Luminaire Lumens: 2035.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	161147
5°	161762
10°	162248
15°	162253
20°	161370
25°	157581
30°	147292
35°	127555
40°	99640
45°	71494
50°	46444
55°	27802
60°	16266
65°	10436
70°	6933
75°	5269
80°	3891
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	6.1
10°-20°	359.9	17.7
20°-30°	531.1	26.1
30°-40°	524.1	25.8
40°-50°	320.8	15.8
50°-60°	123.0	6.0
60°-70°	38.4	1.9
70°-80°	11.3	0.6
80°-90°	1.5	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°	1016.0	49.9
0°-40°	1540.1	75.7
0°-60°	1983.8	97.5
0°-90°	2035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2035.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1312	
5°	1312	125
15°	1276	360
25°	1162	531
35°	850	524
45°	412	321
55°	130	123
65°	36	38
75°	11	11
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1311.7
2.5°	1314.4
5°	1311.7
7.5°	1308.9
10°	1300.6
12.5°	1289.6
15°	1275.7
17.5°	1259.2
20°	1234.3
22.5°	1206.8
25°	1162.5
27.5°	1107.3
30°	1038.3
32.5°	952.7
35°	850.5
37.5°	737.3
40°	621.3
42.5°	513.6
45°	411.5
47.5°	320.3
50°	243.0
52.5°	179.5
55°	129.8
57.5°	91.1
60°	66.2
62.5°	49.8
65°	35.9
67.5°	27.6
70°	19.3
72.5°	13.8
75°	11.1
77.5°	5.5
80°	5.5
82.5°	2.8
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)