Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P573286

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-27 F4X-W-X-H-BL89AM**

Issue Date: 3/1/2023

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P573286
	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-90-27 F4X-W-X-H-BL89AM
Description:	4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1298.0 lumens
Efficiency:	N/A
Efficacy:	27.6 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):	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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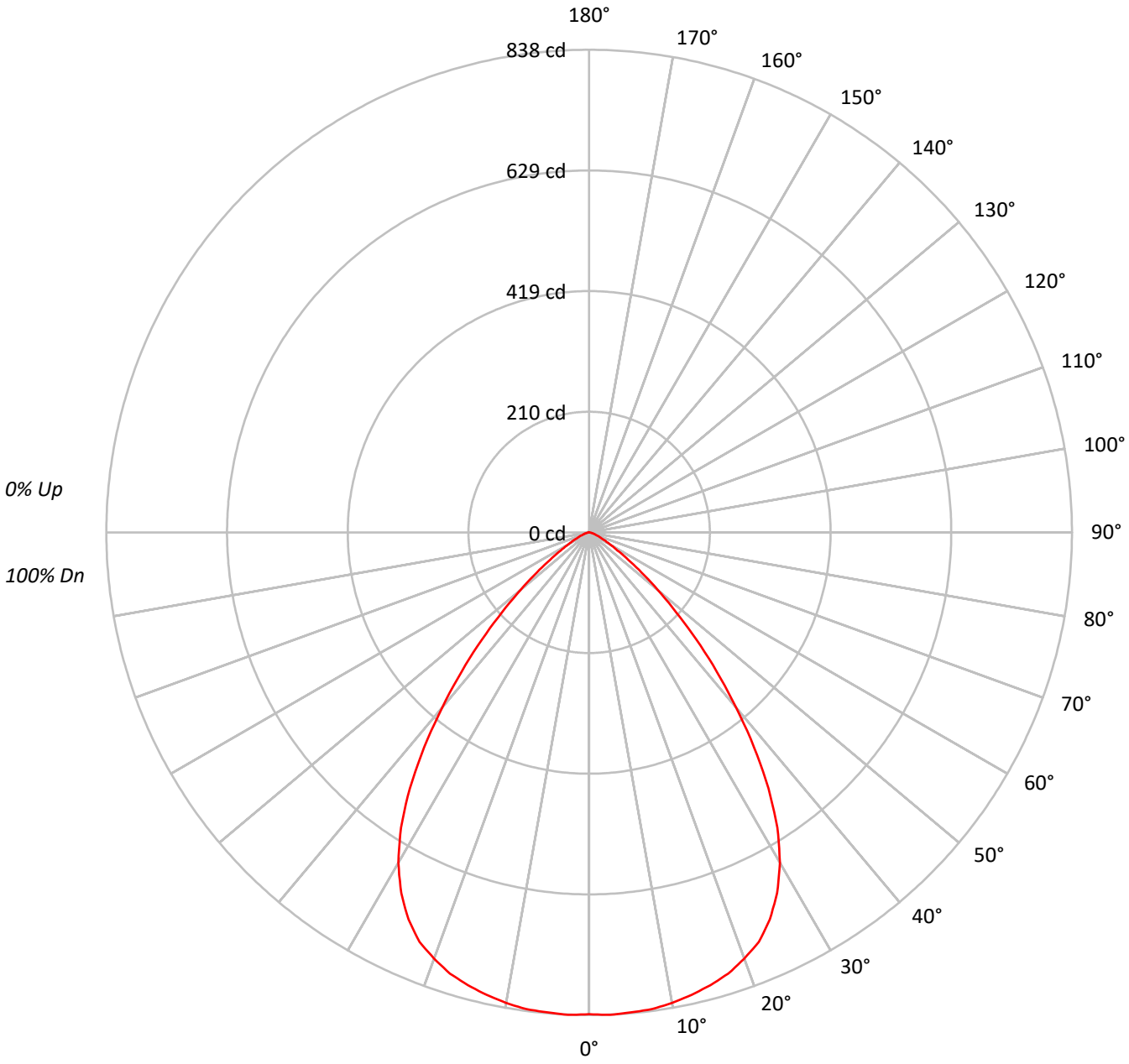
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	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°	102779
5°	103172
10°	103492
15°	103492
20°	102930
25°	100513
30°	93953
35°	81362
40°	63556
45°	45607
50°	29625
55°	17735
60°	10369
65°	6657
70°	4418
75°	3370
80°	2476
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	6.1
10°-20°	229.6	17.7
20°-30°	338.8	26.1
30°-40°	334.3	25.8
40°-50°	204.6	15.8
50°-60°	78.4	6.0
60°-70°	24.5	1.9
70°-80°	7.2	0.6
80°-90°	1.0	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°	648.0	49.9
0°-40°	982.3	75.7
0°-60°	1265.4	97.5
0°-90°	1298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1298.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	837	
5°	837	80
15°	814	230
25°	742	339
35°	542	334
45°	262	205
55°	83	78
65°	23	24
75°	7	7
85°	0	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	836.6
2.5°	838.4
5°	836.6
7.5°	834.9
10°	829.6
12.5°	822.5
15°	813.7
17.5°	803.1
20°	787.3
22.5°	769.7
25°	741.5
27.5°	706.3
30°	662.3
32.5°	607.7
35°	542.5
37.5°	470.2
40°	396.3
42.5°	327.6
45°	262.5
47.5°	204.3
50°	155.0
52.5°	114.5
55°	82.8
57.5°	58.1
60°	42.2
62.5°	31.7
65°	22.9
67.5°	17.6
70°	12.3
72.5°	8.8
75°	7.1
77.5°	3.5
80°	3.5
82.5°	1.8
85°	0.0
87.5°	0.0
90°	0.0

Report Generated By 670246072 / DESKTOP-MV3F9LC

0°-180°

(END OF REPORT)