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: P573075

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86**

Issue Date: 3/1/2023

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P573075
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
Test Lab:	INNOVATION CENTER-P3
Issue Date:	3/1/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	FAIL-SAFE
Catalog Number:	FLD4C-30-D010 FEU4C-X-90-50 F4X-W-X-LI-BL86
Description:	4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWLI TRIM AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2695.0 lumens
Efficiency:	N/A
Efficacy:	85.3 lumens/watt
Spacing Criteria (0/90/45):	1.29 / 1.29 / 1.18
Luminous Opening:	Circular (Dia: 0.33' x H: 0')
CIE Type:	Direct

Input Watts (W):	31.6
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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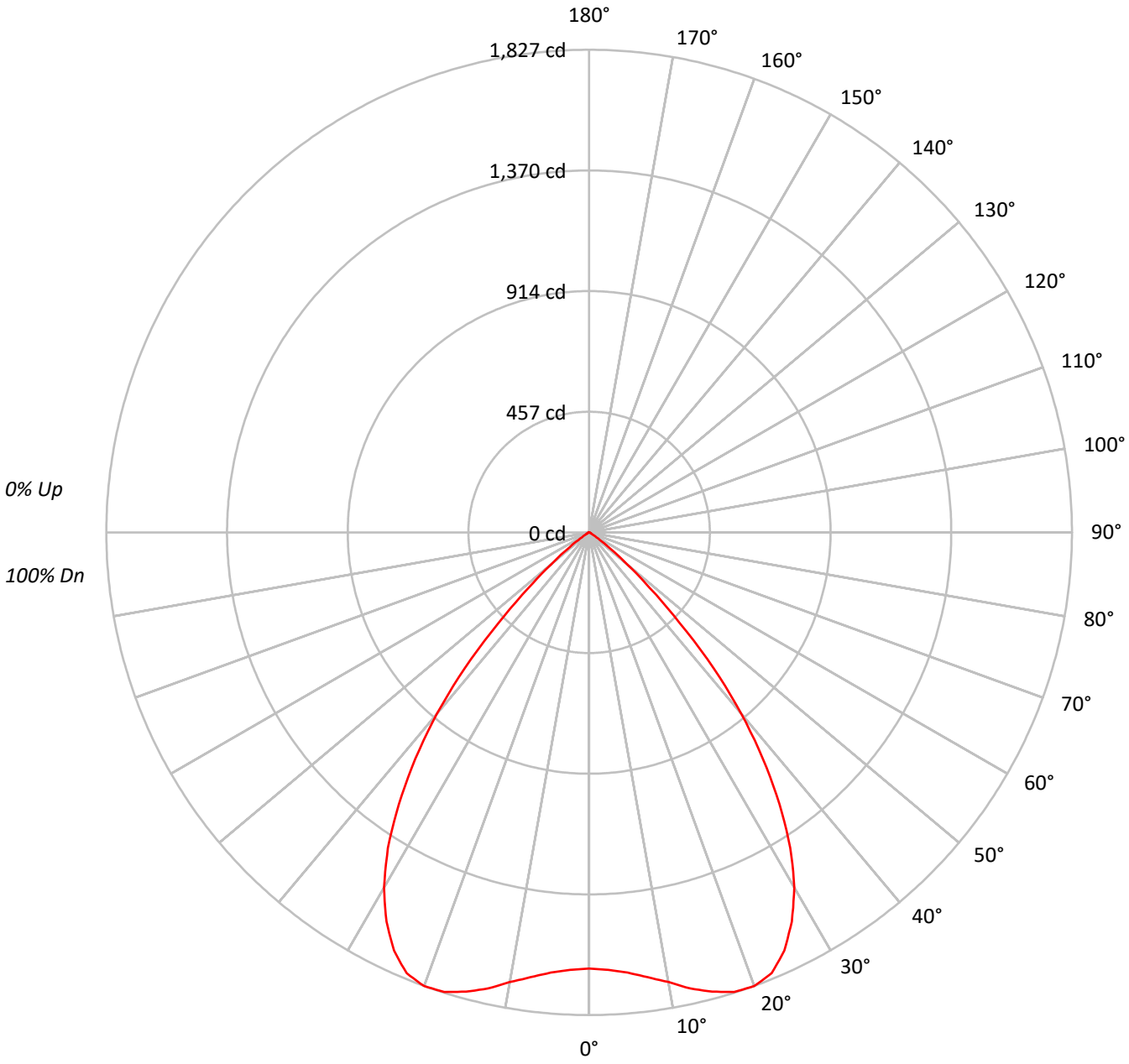
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	202856
5°	206294
10°	215628
15°	228861
20°	238884
25°	236813
30°	220236
35°	188400
40°	143551
45°	84195
50°	35970
55°	10581
60°	3047
65°	1802
70°	1114
75°	1471
80°	0
85°	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	6.0
10°-20°	509.6	18.9
20°-30°	795.0	29.5
30°-40°	773.5	28.7
40°-50°	386.4	14.3
50°-60°	59.8	2.2
60°-70°	7.3	0.3
70°-80°	2.0	0.1
80°-90°	0.0	0.0
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°	1466.1	54.4
0°-40°	2239.6	83.1
0°-60°	2685.7	99.7
0°-90°	2695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2695.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1651	
5°	1673	161
15°	1799	510
25°	1747	795
35°	1256	774
45°	485	386
55°	49	60
65°	6	7
75°	3	2
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1651.2
2.5°	1657.4
5°	1672.8
7.5°	1697.6
10°	1728.5
12.5°	1768.5
15°	1799.4
17.5°	1824.1
20°	1827.2
22.5°	1805.6
25°	1747.0
27.5°	1660.5
30°	1552.5
32.5°	1416.8
35°	1256.2
37.5°	1080.2
40°	895.1
42.5°	697.6
45°	484.6
47.5°	311.7
50°	188.2
52.5°	101.8
55°	49.4
57.5°	21.6
60°	12.4
62.5°	9.3
65°	6.2
67.5°	6.2
70°	3.1
72.5°	3.1
75°	3.1
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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0°-180°

(END OF REPORT)