

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: P573102

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-27 F4X-N-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-35-D010 FEU4C-X-90-27 F4X-N-X-LI
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNLI TRIM

Light Source: -
Ballast/Driver: -

Summary

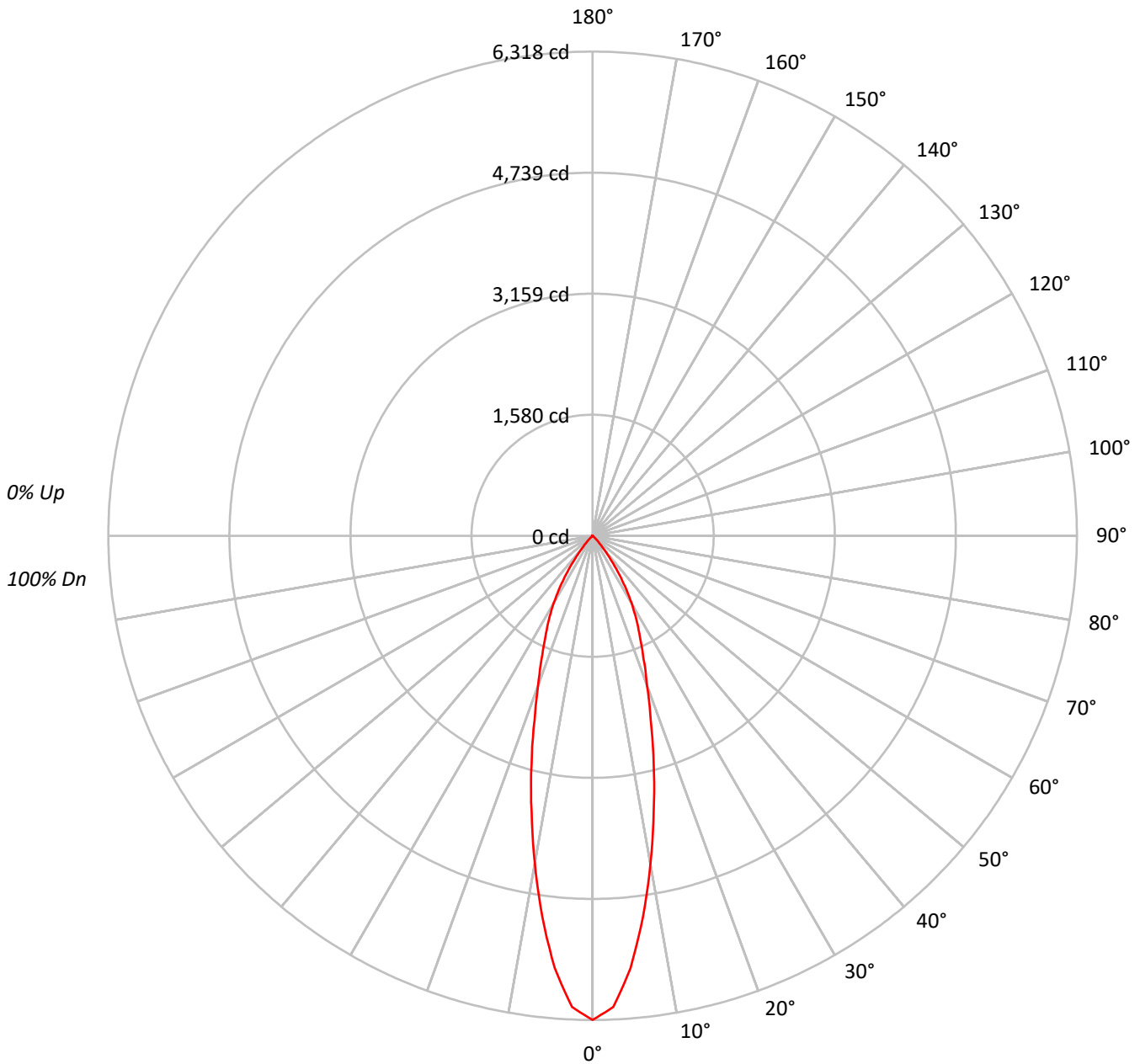
Lumens per Lamp: N/A
Luminaire Lumens: 2455.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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

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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									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	100	100	99	98	97	95	95	93	92	90																
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	93	92	90	88	85	85	83	82	81																
	2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90	90	88	87	85	83	81	80	78	77	73																
	3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	83	82	81	80	78	77	75	73	69																
	4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81	80	79	78	77	75	73	72	71	69	66																
	5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77	75	74	73	72	71	70	69	68	67	63																
	6	92	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73	72	71	70	69	68	67	66	65	64	60																
	7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	70	69	68	67	66	65	64	63	62	59	55																
	8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66	65	64	63	62	61	60	59	58	57	53																
	9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63	62	61	60	59	58	57	56	55	54	50																
	10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61	60	59	58	57	56	55	54	53	52	48																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	776164
5°	698463
10°	541459
15°	391902
20°	271360
25°	197827
30°	143746
35°	85052
40°	35779
45°	11154
50°	1453
55°	814
60°	934
65°	1105
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.9	20.3
10°-20°	852.4	34.7
20°-30°	677.4	27.6
30°-40°	358.6	14.6
40°-50°	61.8	2.5
50°-60°	4.6	0.2
60°-70°	2.3	0.1
70°-80°	0.0	0.0
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°	2027.7	82.6
0°-40°	2386.3	97.2
0°-60°	2452.7	99.9
0°-90°	2455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2455.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6318	
5°	5664	498
15°	3081	852
25°	1459	677
35°	567	359
45°	64	62
55°	4	5
65°	4	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6317.8
2.5°	6155.1
5°	5663.7
7.5°	5021.0
10°	4340.4
12.5°	3682.6
15°	3081.3
17.5°	2521.8
20°	2075.6
22.5°	1735.3
25°	1459.4
27.5°	1236.4
30°	1013.3
32.5°	786.4
35°	567.1
37.5°	374.4
40°	223.1
42.5°	128.6
45°	64.2
47.5°	22.7
50°	7.6
52.5°	7.6
55°	3.8
57.5°	3.8
60°	3.8
62.5°	3.8
65°	3.8
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)