

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: P573139

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-30 F4X-W-X-H-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573139
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-35-D010 FEU4C-X-90-30 F4X-W-X-H-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

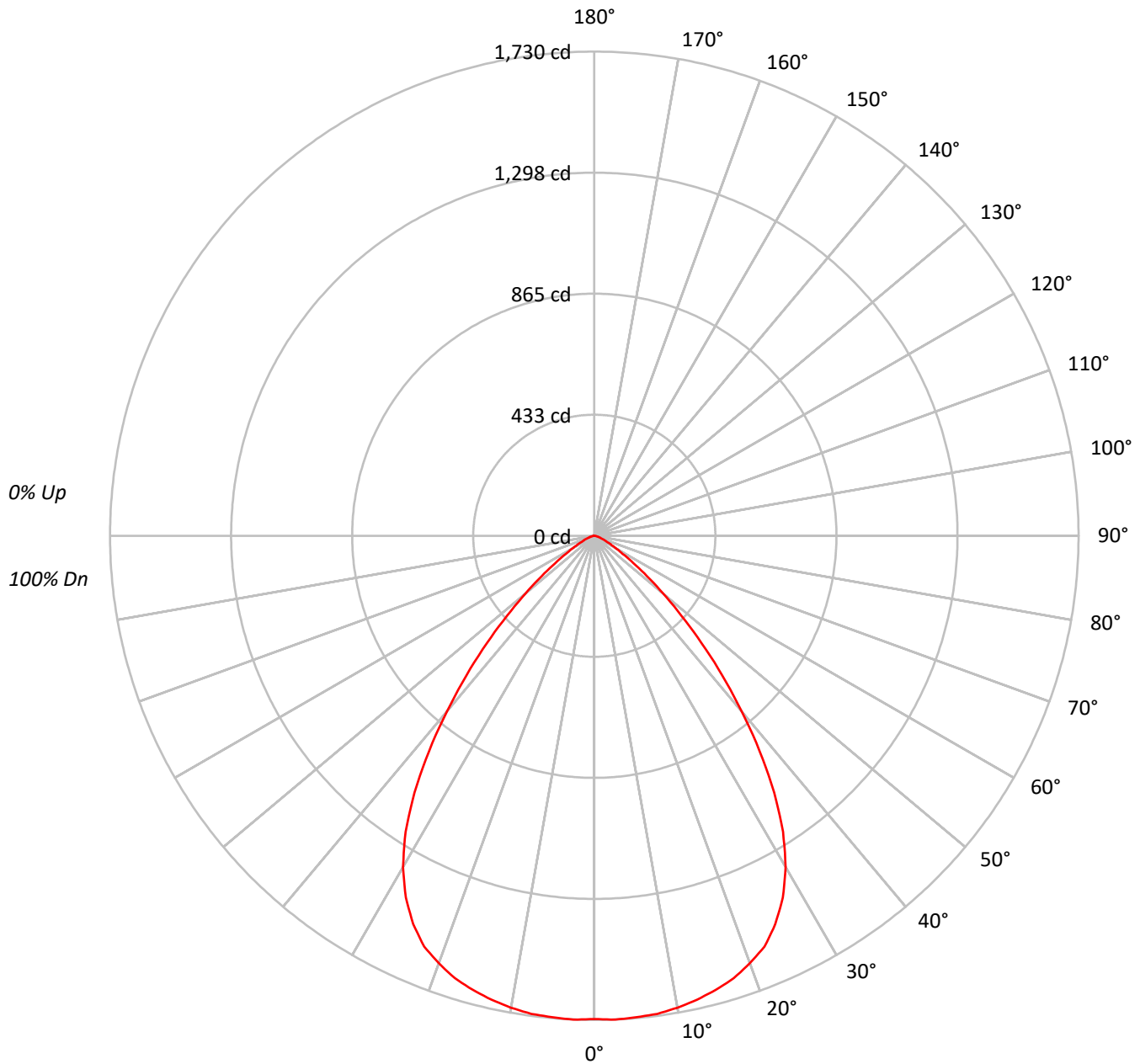
Lumens per Lamp: N/A
Luminaire Lumens: 2679.1 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	212143
5°	212954
10°	213595
15°	213611
20°	212436
25°	207452
30°	193907
35°	167914
40°	131170
45°	94116
50°	61141
55°	36605
60°	21426
65°	13750
70°	9160
75°	6930
80°	5165
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	6.1
10°-20°	473.8	17.7
20°-30°	699.2	26.1
30°-40°	690.0	25.8
40°-50°	422.3	15.8
50°-60°	161.9	6.0
60°-70°	50.6	1.9
70°-80°	14.9	0.6
80°-90°	2.0	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°	1337.5	49.9
0°-40°	2027.5	75.7
0°-60°	2611.6	97.5
0°-90°	2679.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2679.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1727	
5°	1727	164
15°	1680	474
25°	1530	699
35°	1120	690
45°	542	422
55°	171	162
65°	47	51
75°	15	15
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1726.8
2.5°	1730.4
5°	1726.8
7.5°	1723.1
10°	1712.2
12.5°	1697.7
15°	1679.5
17.5°	1657.6
20°	1624.9
22.5°	1588.7
25°	1530.4
27.5°	1457.7
30°	1366.9
32.5°	1254.2
35°	1119.6
37.5°	970.6
40°	817.9
42.5°	676.2
45°	541.7
47.5°	421.6
50°	319.9
52.5°	236.4
55°	170.9
57.5°	119.9
60°	87.2
62.5°	65.5
65°	47.3
67.5°	36.4
70°	25.5
72.5°	18.2
75°	14.6
77.5°	7.3
80°	7.3
82.5°	3.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)