

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: P572968

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-30 F4X-W-X-LI-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572968
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-90-30 F4X-W-X-LI-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

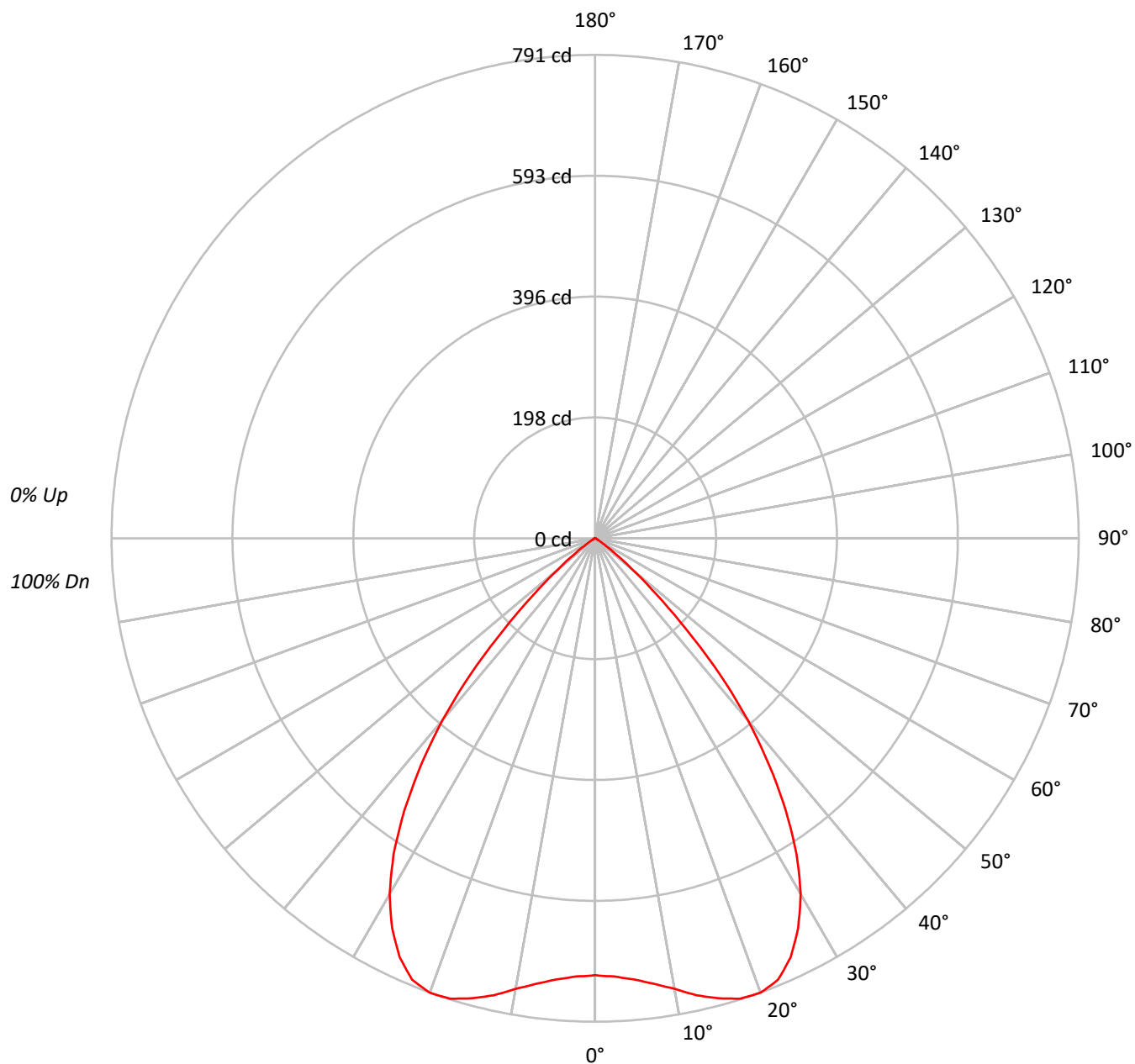
Lumens per Lamp: N/A
Luminaire Lumens: 1167.0 lumens
Efficiency: N/A
Efficacy: 36.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RC	80					70					50					30					10
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		110	108	105	103		104	102	100		100	98	97		96	95	94
2	106	101	97	93		104	99	95	92		96	93	90		93	90	88		90	88	86
3	100	93	87	83		98	92	86	82		89	85	81		86	83	80		84	81	78
4	94	86	79	75		92	84	79	74		82	77	73		80	76	72		78	75	72
5	88	79	72	68		87	78	72	67		76	71	67		74	70	66		73	69	65
6	83	73	66	62		82	72	66	61		71	65	61		69	64	60		68	63	60
7	78	68	61	56		77	67	61	56		66	60	56		64	59	55		63	59	55
8	74	63	56	52		72	62	56	51		61	55	51		60	55	51		59	54	51
9	69	59	52	48		68	58	52	47		57	51	47		56	51	47		55	50	47
10	66	55	48	44		65	54	48	44		53	48	44		53	47	44		52	47	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87840
5°	89335
10°	93374
15°	99104
20°	103440
25°	102546
30°	95372
35°	81587
40°	62161
45°	36468
50°	15577
55°	4584
60°	1327
65°	785
70°	467
75°	617
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	6.0
10°-20°	220.7	18.9
20°-30°	344.2	29.5
30°-40°	335.0	28.7
40°-50°	167.3	14.3
50°-60°	25.9	2.2
60°-70°	3.1	0.3
70°-80°	0.9	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°	634.8	54.4
0°-40°	969.8	83.1
0°-60°	1163.0	99.7
0°-90°	1167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	715	
5°	724	70
15°	779	221
25°	756	344
35°	544	335
45°	210	167
55°	21	26
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	715.0
2.5°	717.7
5°	724.4
7.5°	735.1
10°	748.5
12.5°	765.8
15°	779.2
17.5°	789.9
20°	791.2
22.5°	781.9
25°	756.5
27.5°	719.0
30°	672.3
32.5°	613.5
35°	544.0
37.5°	467.8
40°	387.6
42.5°	302.1
45°	209.9
47.5°	135.0
50°	81.5
52.5°	44.1
55°	21.4
57.5°	9.4
60°	5.4
62.5°	4.0
65°	2.7
67.5°	2.7
70°	1.3
72.5°	1.3
75°	1.3
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)