

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: P573616

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-W-X-LI-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573616
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-45-D010 FEU4C-X-90-50 F4X-W-X-LI-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

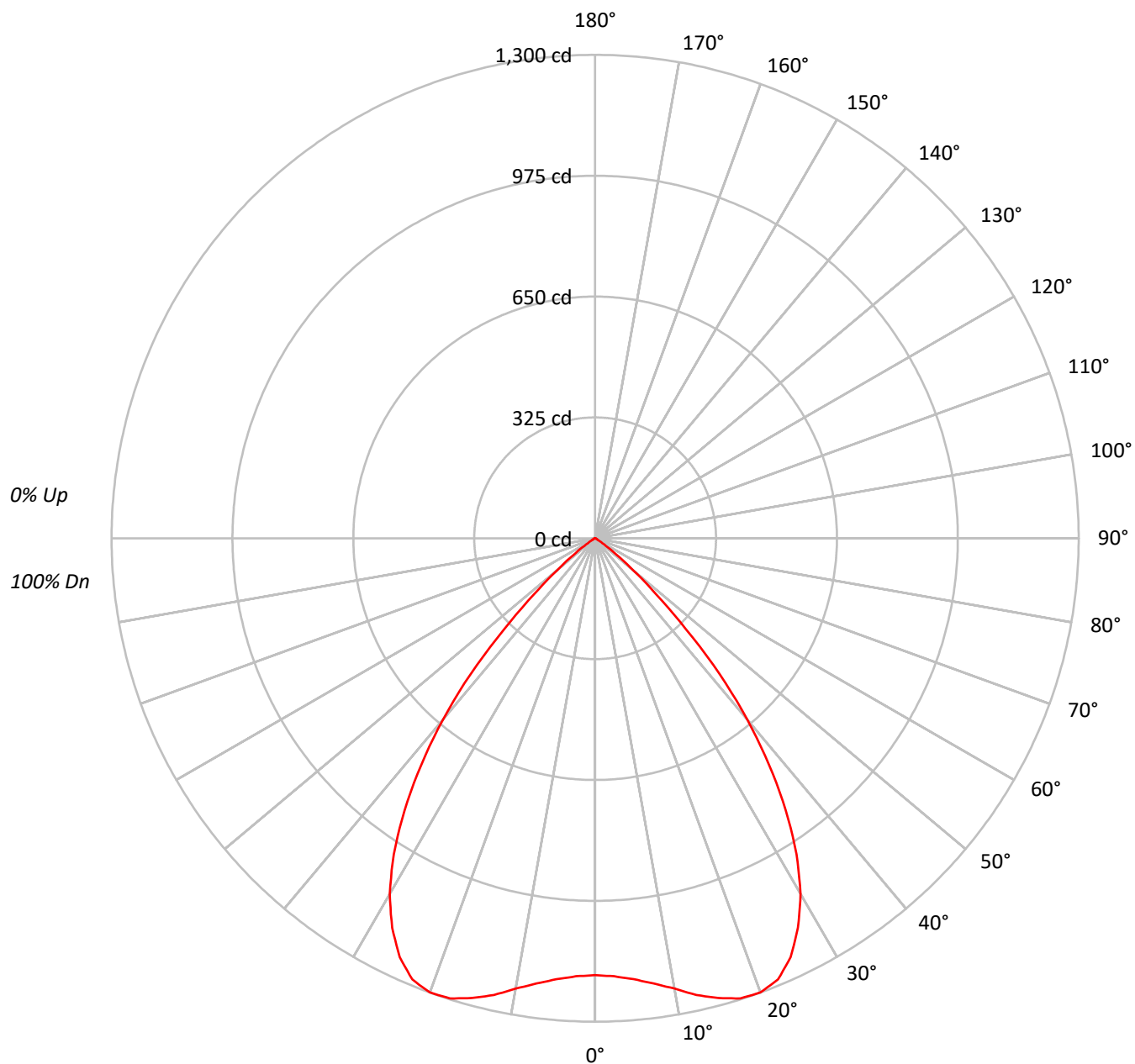
Lumens per Lamp: N/A
Luminaire Lumens: 1917.0 lumens
Efficiency: N/A
Efficacy: 38.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59
9	69	59	52	48	68	58	52	47	57	51	47		56	51	47		55
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	144291
5°	146742
10°	153379
15°	162787
20°	169920
25°	168453
30°	156655
35°	134019
40°	102110
45°	59889
50°	25592
55°	7539
60°	2162
65°	1279
70°	790
75°	1044
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	6.0
10°-20°	362.5	18.9
20°-30°	565.5	29.5
30°-40°	550.2	28.7
40°-50°	274.8	14.3
50°-60°	42.5	2.2
60°-70°	5.2	0.3
70°-80°	1.4	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°	1042.8	54.4
0°-40°	1593.1	83.1
0°-60°	1910.4	99.7
0°-90°	1917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1917.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1174	
5°	1190	115
15°	1280	362
25°	1243	565
35°	894	550
45°	345	275
55°	35	43
65°	4	5
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1174.5
2.5°	1178.9
5°	1189.9
7.5°	1207.5
10°	1229.5
12.5°	1258.0
15°	1279.9
17.5°	1297.5
20°	1299.7
22.5°	1284.3
25°	1242.7
27.5°	1181.1
30°	1104.3
32.5°	1007.8
35°	893.6
37.5°	768.4
40°	636.7
42.5°	496.2
45°	344.7
47.5°	221.7
50°	133.9
52.5°	72.4
55°	35.2
57.5°	15.4
60°	8.8
62.5°	6.6
65°	4.4
67.5°	4.4
70°	2.2
72.5°	2.2
75°	2.2
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)