

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: P573514

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-35 F4X-M-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
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-90-35 F4X-M-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

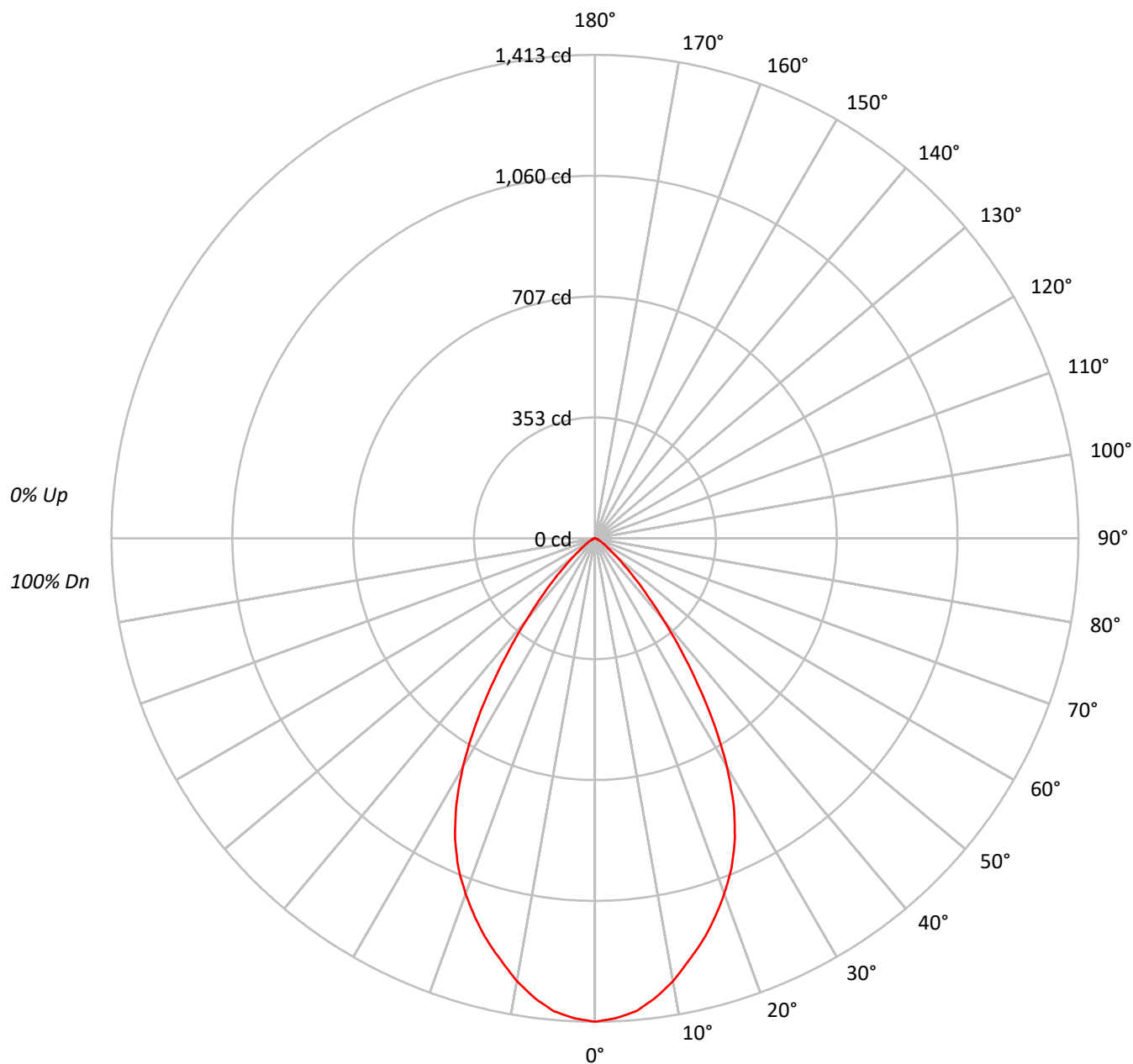
Lumens per Lamp: N/A
Luminaire Lumens: 1425.1 lumens
Efficiency: N/A
Efficacy: 28.7 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	108	105		111	108	106	104		104	102	100		100	99	97		97	96	95
2	107	102	98	94		105	100	96	93		97	94	91		94	91	89		91	89	87
3	101	94	89	85		99	93	88	84		90	86	83		88	84	82		86	83	80
4	96	88	82	77		94	86	81	77		84	80	76		82	78	75		80	77	74
5	90	82	75	71		89	81	75	70		79	74	70		77	73	69		75	72	69
6	86	76	70	65		84	75	69	65		74	68	64		72	68	64		71	67	64
7	81	71	65	60		80	70	64	60		69	64	60		68	63	59		67	62	59
8	77	67	60	56		75	66	60	56		65	59	56		64	59	55		63	58	55
9	73	63	56	52		72	62	56	52		61	56	52		60	55	52		59	55	52
10	69	59	53	49		68	59	53	49		58	52	49		57	52	48		56	52	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	173592
5°	171073
10°	163920
15°	154825
20°	144518
25°	131189
30°	109529
35°	79353
40°	49668
45°	28389
50°	14812
55°	8289
60°	5283
65°	3140
70°	2335
75°	1044
80°	1556
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	9.1
10°-20°	341.1	23.9
20°-30°	438.4	30.8
30°-40°	329.8	23.1
40°-50°	132.5	9.3
50°-60°	37.7	2.6
60°-70°	11.9	0.8
70°-80°	3.4	0.2
80°-90°	0.3	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°	909.5	63.8
0°-40°	1239.3	87.0
0°-60°	1409.4	98.9
0°-90°	1425.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1425.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1413	
5°	1387	130
15°	1217	341
25°	968	438
35°	529	330
45°	163	132
55°	39	38
65°	11	12
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1413.0
2.5°	1404.4
5°	1387.2
7.5°	1354.9
10°	1314.0
12.5°	1264.6
15°	1217.3
17.5°	1163.5
20°	1105.4
22.5°	1043.1
25°	967.8
27.5°	877.4
30°	772.1
32.5°	653.8
35°	529.1
37.5°	412.9
40°	309.7
42.5°	228.0
45°	163.4
47.5°	111.9
50°	77.5
52.5°	53.8
55°	38.7
57.5°	28.0
60°	21.5
62.5°	15.1
65°	10.8
67.5°	8.6
70°	6.5
72.5°	4.3
75°	2.2
77.5°	2.2
80°	2.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)