

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: P573490

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-30 F4X-N-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
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-90-30 F4X-N-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

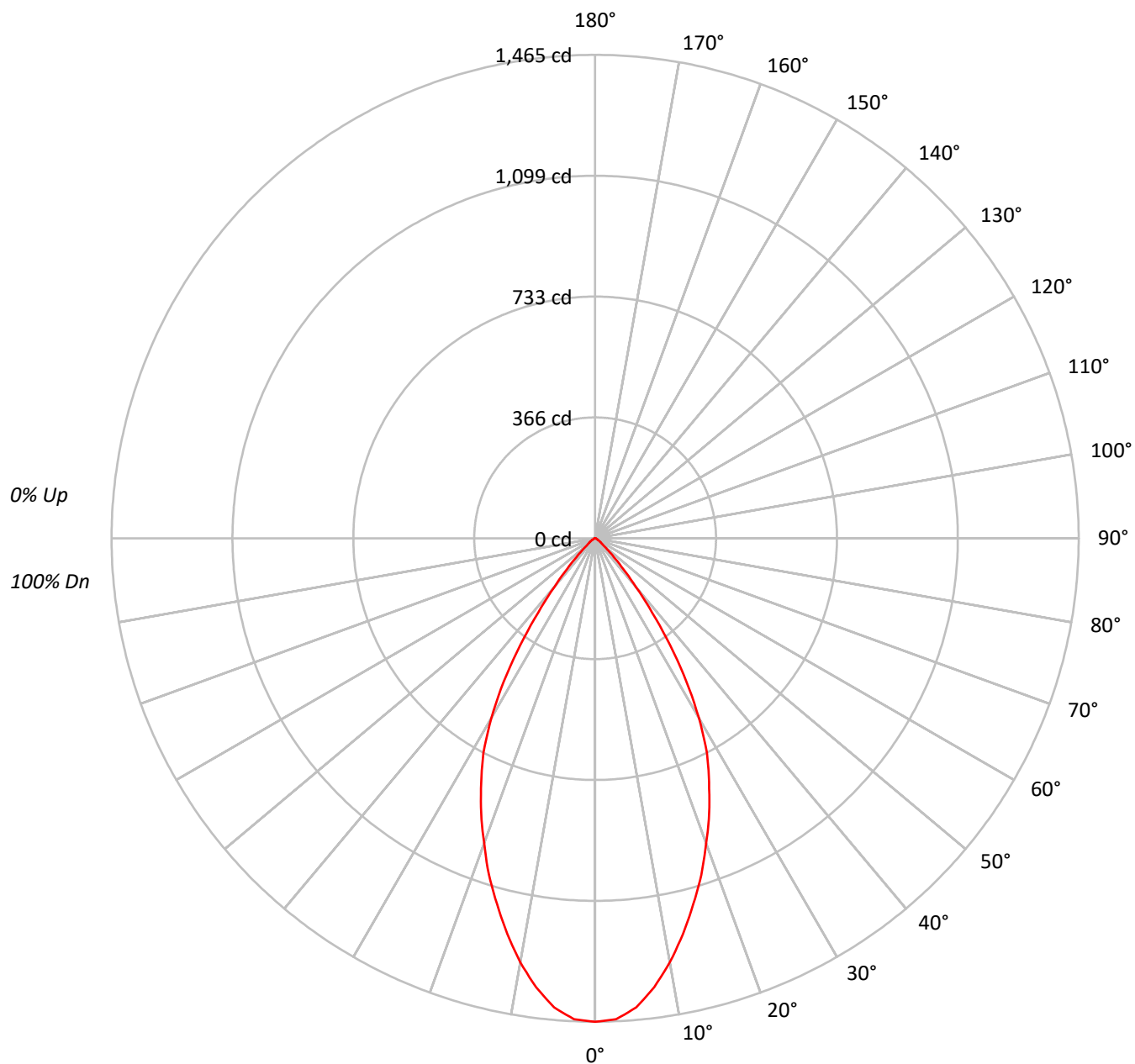
Lumens per Lamp: N/A
Luminaire Lumens: 1167.0 lumens
Efficiency: N/A
Efficacy: 23.5 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				0			
RW	70	50	30	10	70	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						
1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93						
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87						
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81						
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75						
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70						
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65						
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61						
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58						
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54						
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	180005
5°	176006
10°	162735
15°	146024
20°	128542
25°	110625
30°	89087
35°	59301
40°	30856
45°	13969
50°	6059
55°	4070
60°	2604
65°	1860
70°	1509
75°	997
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	11.3
10°-20°	320.7	27.5
20°-30°	372.3	31.9
30°-40°	246.6	21.1
40°-50°	69.2	5.9
50°-60°	17.4	1.5
60°-70°	6.5	0.6
70°-80°	2.2	0.2
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°	825.2	70.7
0°-40°	1071.7	91.8
0°-60°	1158.3	99.3
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°	1465	
5°	1427	132
15°	1148	321
25°	816	372
35°	395	247
45°	80	69
55°	19	17
65°	6	7
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1465.2
2.5°	1458.9
5°	1427.2
7.5°	1372.1
10°	1304.5
12.5°	1228.3
15°	1148.1
17.5°	1069.8
20°	983.2
22.5°	902.8
25°	816.1
27.5°	733.7
30°	628.0
32.5°	515.9
35°	395.4
37.5°	283.3
40°	192.4
42.5°	124.7
45°	80.4
47.5°	48.7
50°	31.7
52.5°	23.2
55°	19.0
57.5°	14.8
60°	10.6
62.5°	8.5
65°	6.4
67.5°	4.2
70°	4.2
72.5°	2.1
75°	2.1
77.5°	2.1
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)