

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: P573441

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-27 F4X-M-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573441
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-90-27 F4X-M-X-H-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

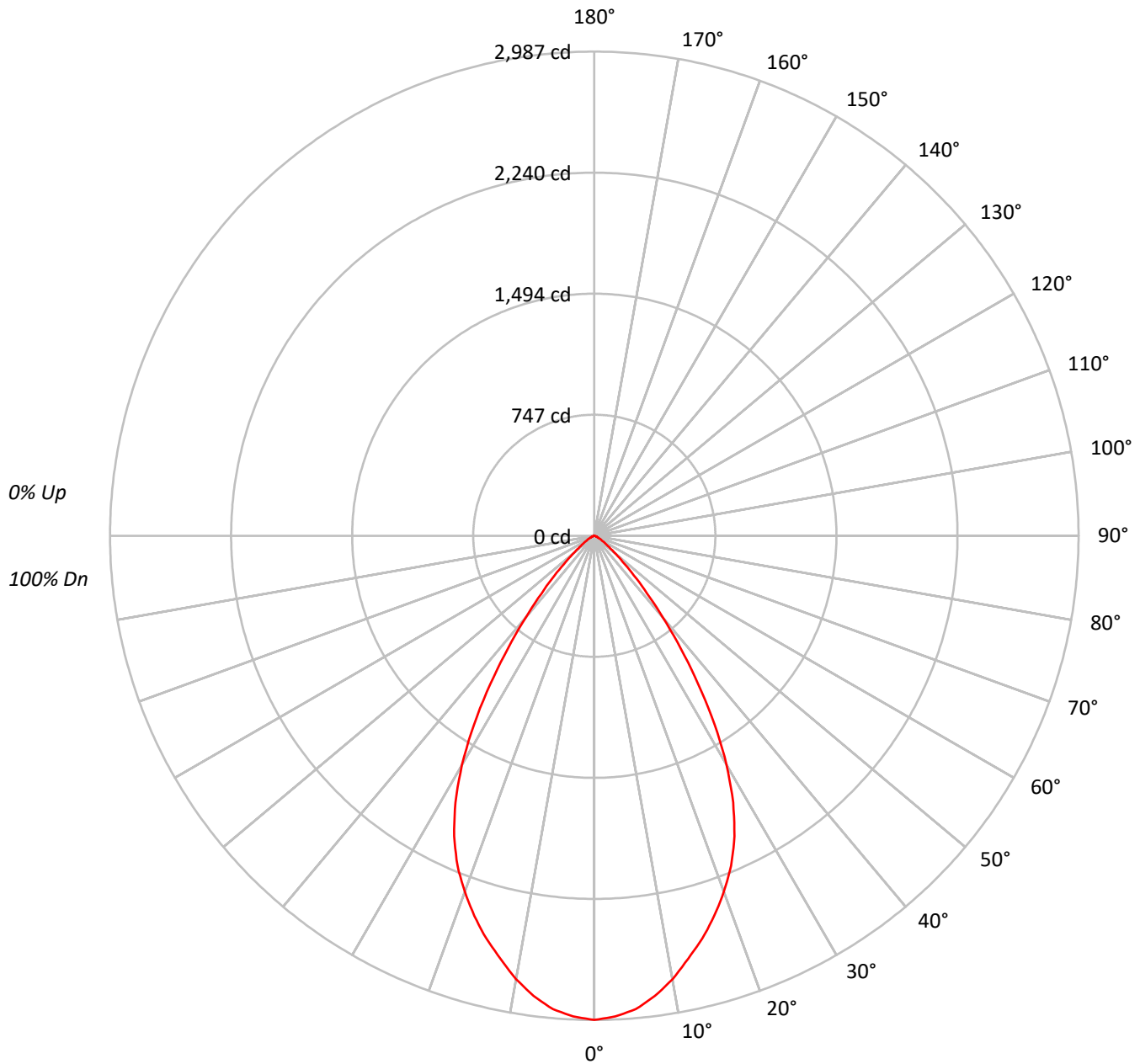
Lumens per Lamp: N/A
Luminaire Lumens: 3011.9 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75
6	86	76	70	65	84	75	69	65	74	68	64		72	68	64		71
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	59	53	49	58	52	49		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	366914
5°	361582
10°	346477
15°	327253
20°	305469
25°	277289
30°	231514
35°	167719
40°	104997
45°	60010
50°	31287
55°	17542
60°	11180
65°	6599
70°	4885
75°	2136
80°	3184
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	9.1
10°-20°	721.0	23.9
20°-30°	926.5	30.8
30°-40°	697.1	23.1
40°-50°	280.0	9.3
50°-60°	79.6	2.6
60°-70°	25.2	0.8
70°-80°	7.1	0.2
80°-90°	0.6	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°	1922.3	63.8
0°-40°	2619.4	87.0
0°-60°	2979.0	98.9
0°-90°	3011.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2987	
5°	2932	275
15°	2573	721
25°	2046	927
35°	1118	697
45°	345	280
55°	82	80
65°	23	25
75°	4	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2986.6
2.5°	2968.4
5°	2932.0
7.5°	2863.8
10°	2777.4
12.5°	2673.0
15°	2573.0
17.5°	2459.3
20°	2336.5
22.5°	2204.8
25°	2045.6
27.5°	1854.6
30°	1632.0
32.5°	1381.9
35°	1118.3
37.5°	872.7
40°	654.7
42.5°	481.8
45°	345.4
47.5°	236.5
50°	163.7
52.5°	113.7
55°	81.9
57.5°	59.1
60°	45.5
62.5°	31.8
65°	22.7
67.5°	18.2
70°	13.6
72.5°	9.1
75°	4.5
77.5°	4.5
80°	4.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)