

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: P573459

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-27 F4X-N-X-LI-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
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-N-X-LI-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNI TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

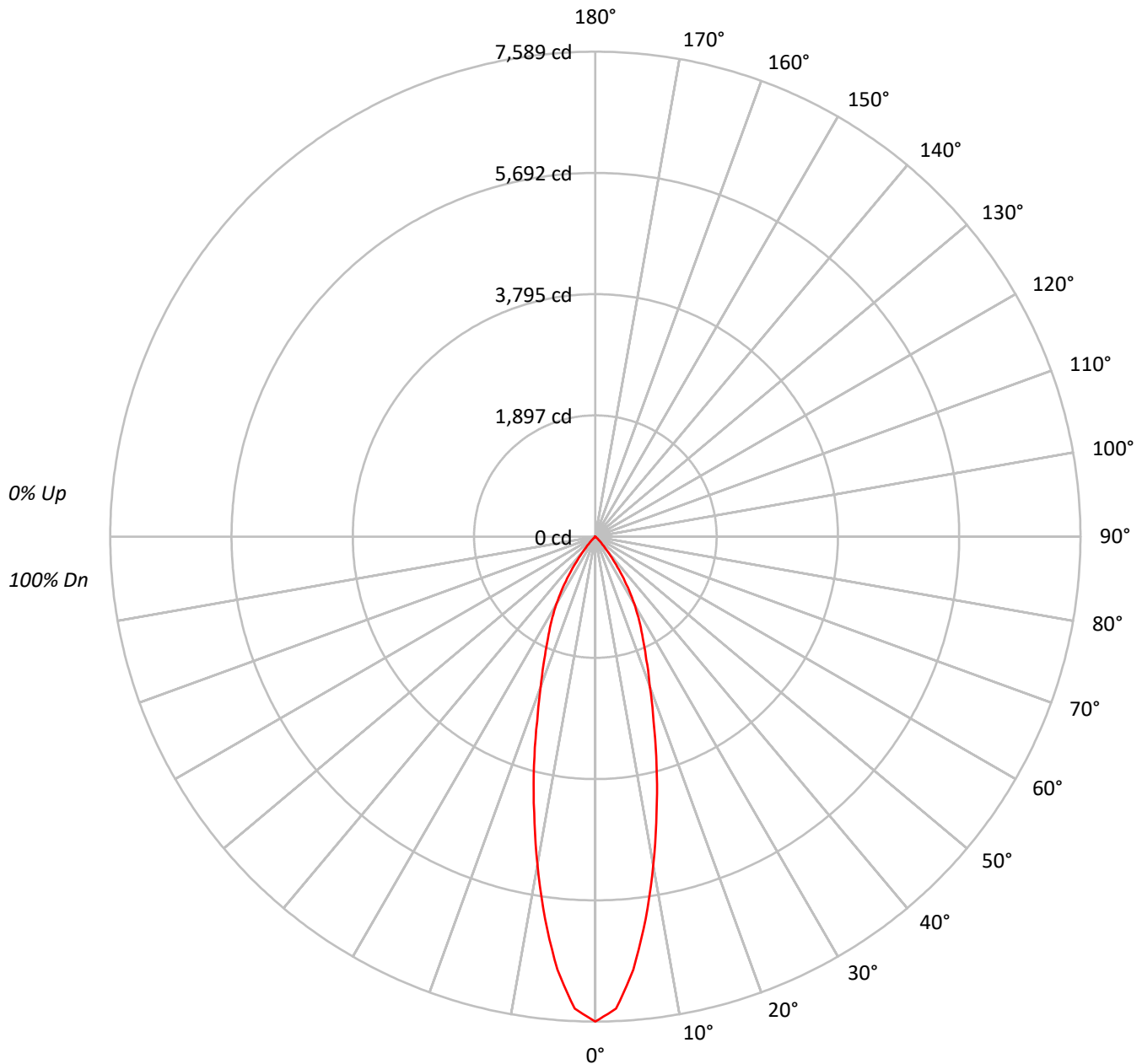
Lumens per Lamp: N/A
Luminaire Lumens: 2948.9 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	112	110	108		112	110	108	106		106	104	103			102	101	100			95
2	109	105	102	99		107	103	100	98		100	98	95			97	95	93			90
3	105	99	95	92		103	98	94	91		95	92	89			93	90	88			85
4	101	94	89	86		99	93	88	85		91	87	84			89	86	83			81
5	96	89	84	80		95	88	84	80		87	82	79			85	81	79			77
6	92	85	80	76		91	84	79	76		83	78	75			81	78	75			73
7	89	81	76	72		88	80	75	72		79	75	71			78	74	71			69
8	85	77	72	68		84	77	72	68		76	71	68			75	71	68			66
9	82	74	69	65		81	73	68	65		72	68	65			72	68	65			63
10	79	71	66	62		78	70	65	62		69	65	62			69	65	62			61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	932335
5°	839014
10°	650415
15°	470771
20°	325969
25°	237639
30°	172671
35°	102179
40°	42980
45°	13395
50°	1739
55°	964
60°	1106
65°	1308
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.1	20.3
10°-20°	1023.9	34.7
20°-30°	813.7	27.6
30°-40°	430.8	14.6
40°-50°	74.2	2.5
50°-60°	5.5	0.2
60°-70°	2.8	0.1
70°-80°	0.0	0.0
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°	2435.7	82.6
0°-40°	2866.5	97.2
0°-60°	2946.2	99.9
0°-90°	2948.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7589	
5°	6803	598
15°	3701	1024
25°	1753	814
35°	681	431
45°	77	74
55°	4	6
65°	4	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7589.0
2.5°	7393.6
5°	6803.4
7.5°	6031.3
10°	5213.8
12.5°	4423.6
15°	3701.4
17.5°	3029.2
20°	2493.3
22.5°	2084.5
25°	1753.1
27.5°	1485.1
30°	1217.2
32.5°	944.7
35°	681.3
37.5°	449.7
40°	268.0
42.5°	154.4
45°	77.1
47.5°	27.3
50°	9.1
52.5°	9.1
55°	4.5
57.5°	4.5
60°	4.5
62.5°	4.5
65°	4.5
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)