

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: P573740

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-40 F4X-N-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573740
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-50-D010 FEU4C-X-90-40 F4X-N-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

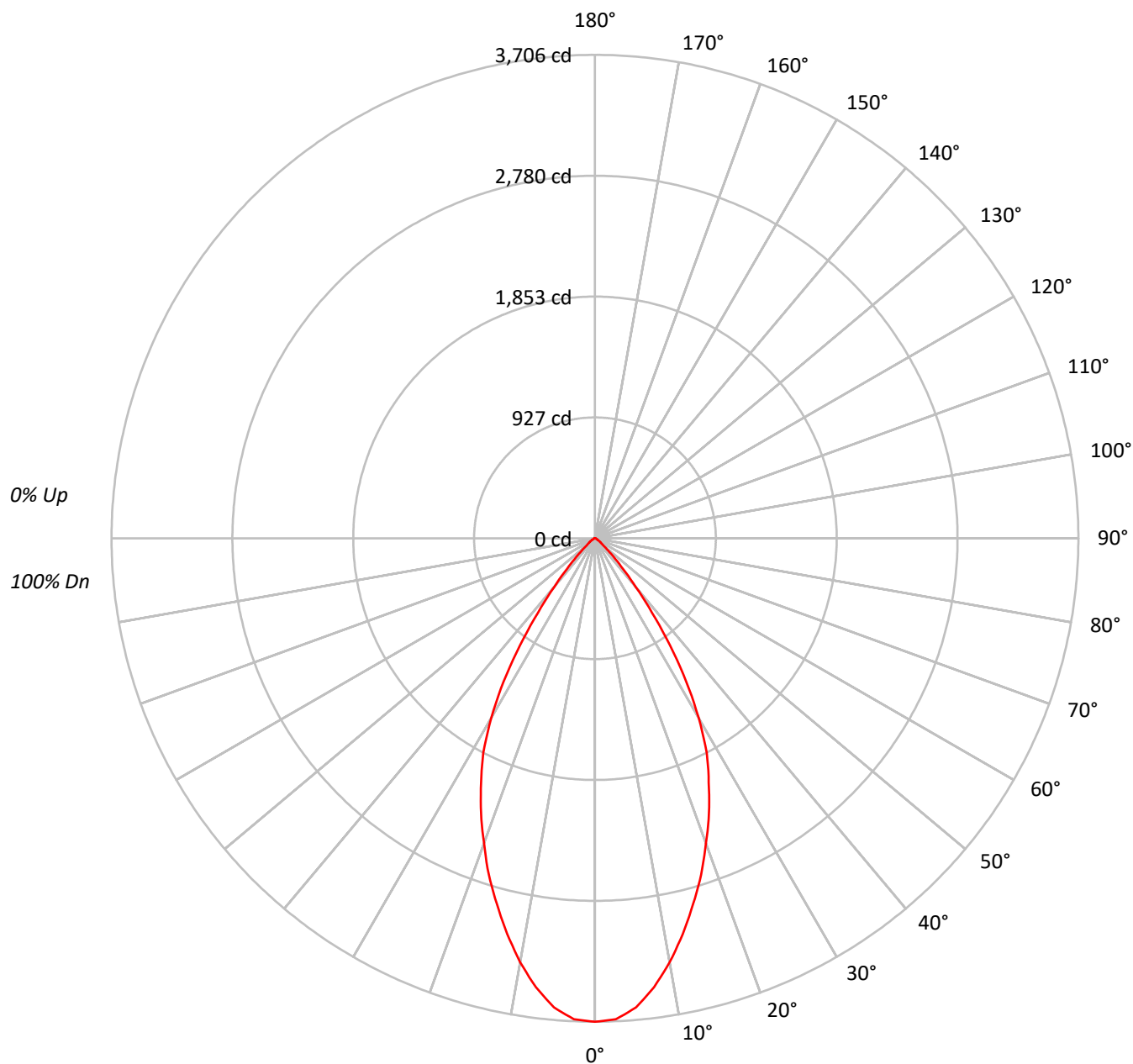
Lumens per Lamp: N/A
Luminaire Lumens: 2952.0 lumens
Efficiency: N/A
Efficacy: 50.5 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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	113	111	108	106		111	109	106	104		105	103	101			101	99	98			93
2	108	103	99	96		106	101	98	94		98	95	92			95	93	90			87
3	102	96	91	87		100	95	90	86		92	88	85			90	86	84			81
4	97	90	84	80		95	89	83	79		86	82	78			84	81	78			75
5	92	84	78	74		91	83	78	73		81	76	73			80	75	72			70
6	88	79	73	69		86	78	72	68		77	72	68			75	71	67			65
7	83	74	68	64		82	73	68	64		72	67	63			71	66	63			61
8	79	70	64	60		78	69	64	60		68	63	59			67	63	59			58
9	76	66	60	56		74	65	60	56		65	59	56			64	59	56			54
10	72	62	57	53		71	62	56	53		61	56	53			60	56	52			51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	455344
5°	445207
10°	411633
15°	369365
20°	325145
25°	279824
30°	225329
35°	150006
40°	78038
45°	35322
50°	15328
55°	10281
60°	6585
65°	4680
70°	3843
75°	2563
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.4	11.3
10°-20°	811.2	27.5
20°-30°	941.8	31.9
30°-40°	623.7	21.1
40°-50°	174.9	5.9
50°-60°	43.9	1.5
60°-70°	16.5	0.6
70°-80°	5.7	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°	2087.3	70.7
0°-40°	2711.0	91.8
0°-60°	2929.8	99.2
0°-90°	2952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3706	
5°	3610	334
15°	2904	811
25°	2064	942
35°	1000	624
45°	203	175
55°	48	44
65°	16	17
75°	5	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3706.4
2.5°	3690.3
5°	3610.1
7.5°	3470.9
10°	3299.7
12.5°	3107.2
15°	2904.1
17.5°	2706.2
20°	2487.0
22.5°	2283.7
25°	2064.3
27.5°	1855.9
30°	1588.4
32.5°	1304.9
35°	1000.2
37.5°	716.7
40°	486.6
42.5°	315.4
45°	203.3
47.5°	123.1
50°	80.2
52.5°	58.7
55°	48.0
57.5°	37.5
60°	26.8
62.5°	21.5
65°	16.1
67.5°	10.7
70°	10.7
72.5°	5.4
75°	5.4
77.5°	5.4
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)