

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: P573644

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-27 F4X-W-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
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-90-27 F4X-W-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

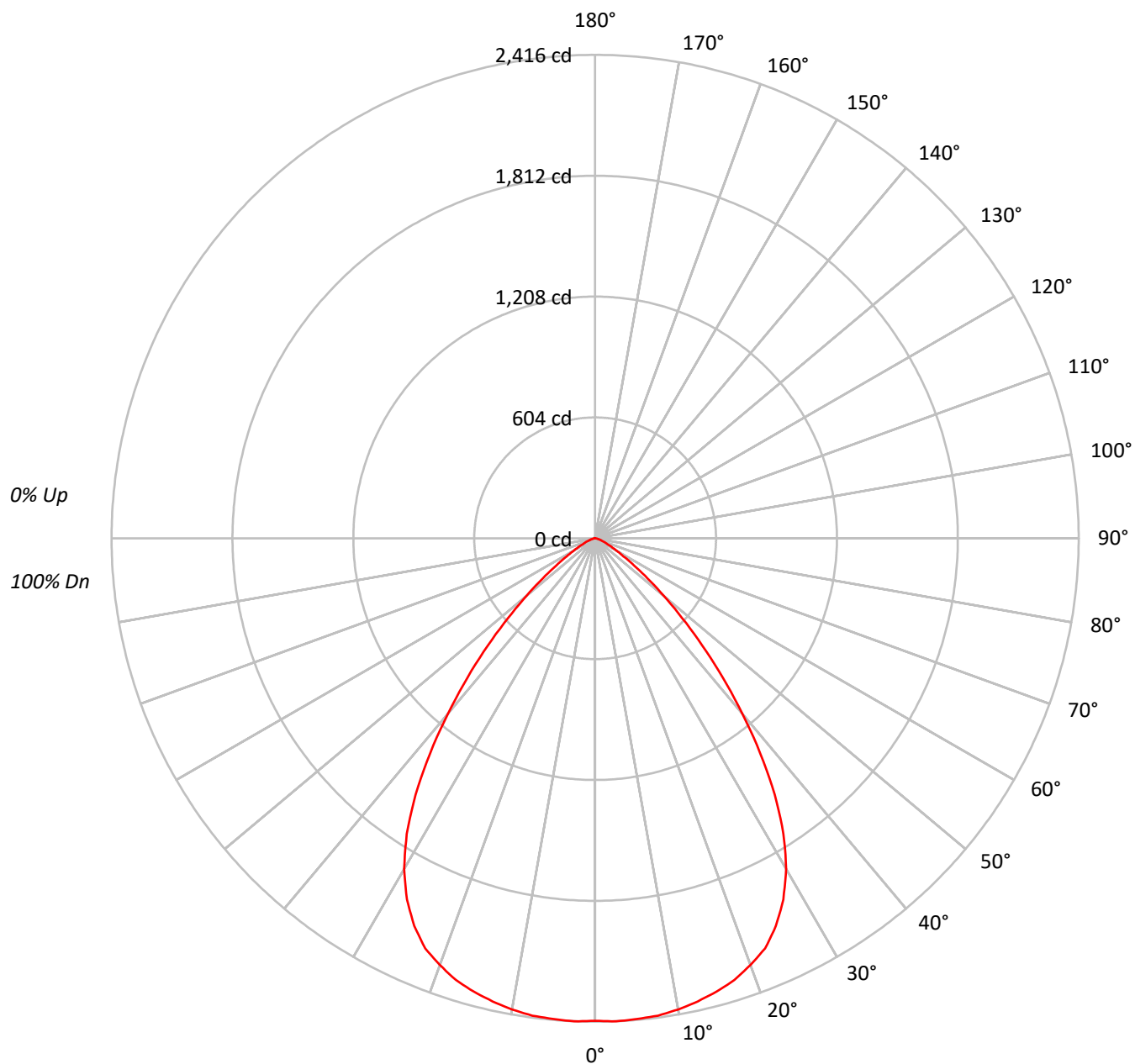
Lumens per Lamp: N/A
Luminaire Lumens: 3741.0 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89
3	99	91	85	80	97	90	84	80	87	82	78		84	80	77		82
4	92	83	77	72	90	82	76	71	80	75	70		78	73	70		76
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70
6	81	71	64	58	80	70	63	58	68	62	58		67	61	57		65
7	76	65	58	53	75	65	58	53	63	57	53		62	56	52		61
8	72	60	53	49	70	60	53	49	59	53	48		58	52	48		57
9	68	56	49	45	66	56	49	45	55	49	44		54	48	44		53
10	64	52	46	41	63	52	46	41	51	45	41		50	45	41		49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	296237
5°	297368
10°	298274
15°	298280
20°	296644
25°	289692
30°	270766
35°	234473
40°	183163
45°	131418
50°	85376
55°	51105
60°	29903
65°	19215
70°	12788
75°	9636
80°	7216
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	6.1
10°-20°	661.7	17.7
20°-30°	976.4	26.1
30°-40°	963.5	25.8
40°-50°	589.6	15.8
50°-60°	226.1	6.0
60°-70°	70.7	1.9
70°-80°	20.7	0.6
80°-90°	2.8	0.1
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°	1867.6	49.9
0°-40°	2831.1	75.7
0°-60°	3646.8	97.5
0°-90°	3741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3741.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2411	
5°	2411	230
15°	2345	662
25°	2137	976
35°	1563	963
45°	756	590
55°	239	226
65°	66	71
75°	20	21
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2411.3
2.5°	2416.4
5°	2411.3
7.5°	2406.2
10°	2391.0
12.5°	2370.6
15°	2345.2
17.5°	2314.8
20°	2269.0
22.5°	2218.4
25°	2137.1
27.5°	2035.5
30°	1908.7
32.5°	1751.4
35°	1563.4
37.5°	1355.3
40°	1142.1
42.5°	944.2
45°	756.4
47.5°	588.7
50°	446.7
52.5°	330.1
55°	238.6
57.5°	167.5
60°	121.7
62.5°	91.5
65°	66.1
67.5°	50.8
70°	35.6
72.5°	25.4
75°	20.3
77.5°	10.2
80°	10.2
82.5°	5.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)