

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: P573212

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-40 F4X-W-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573212
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-35-D010 FEU4C-X-90-40 F4X-W-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

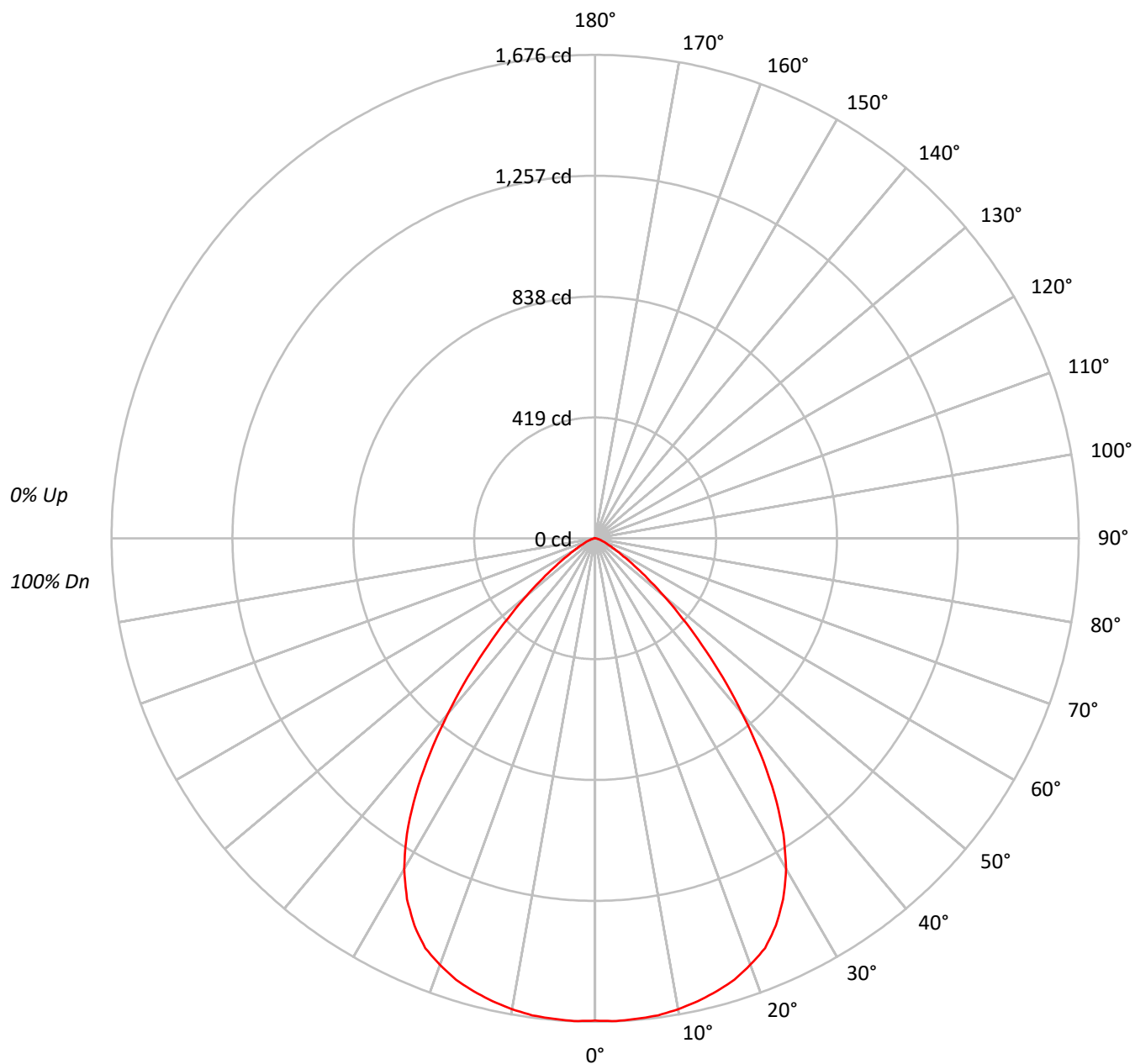
Lumens per Lamp: N/A
Luminaire Lumens: 2594.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	205411
5°	206196
10°	206821
15°	206832
20°	205690
25°	200877
30°	187750
35°	162589
40°	127016
45°	91127
50°	59192
55°	35427
60°	20738
65°	13314
70°	8872
75°	6693
80°	4952
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	6.1
10°-20°	458.8	17.7
20°-30°	677.0	26.1
30°-40°	668.1	25.8
40°-50°	408.8	15.8
50°-60°	156.7	6.0
60°-70°	49.0	1.9
70°-80°	14.4	0.6
80°-90°	1.9	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°	1295.0	49.9
0°-40°	1963.1	75.7
0°-60°	2528.7	97.5
0°-90°	2594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2594.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1672	
5°	1672	159
15°	1626	459
25°	1482	677
35°	1084	668
45°	524	409
55°	165	157
65°	46	49
75°	14	14
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1672.0
2.5°	1675.5
5°	1672.0
7.5°	1668.5
10°	1657.9
12.5°	1643.8
15°	1626.2
17.5°	1605.0
20°	1573.3
22.5°	1538.3
25°	1481.9
27.5°	1411.4
30°	1323.5
32.5°	1214.4
35°	1084.1
37.5°	939.8
40°	792.0
42.5°	654.7
45°	524.5
47.5°	408.2
50°	309.7
52.5°	228.9
55°	165.4
57.5°	116.1
60°	84.4
62.5°	63.4
65°	45.8
67.5°	35.2
70°	24.7
72.5°	17.6
75°	14.1
77.5°	7.0
80°	7.0
82.5°	3.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)