

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: P573072

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-50 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573072
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-30-D010 FEU4C-X-90-50 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

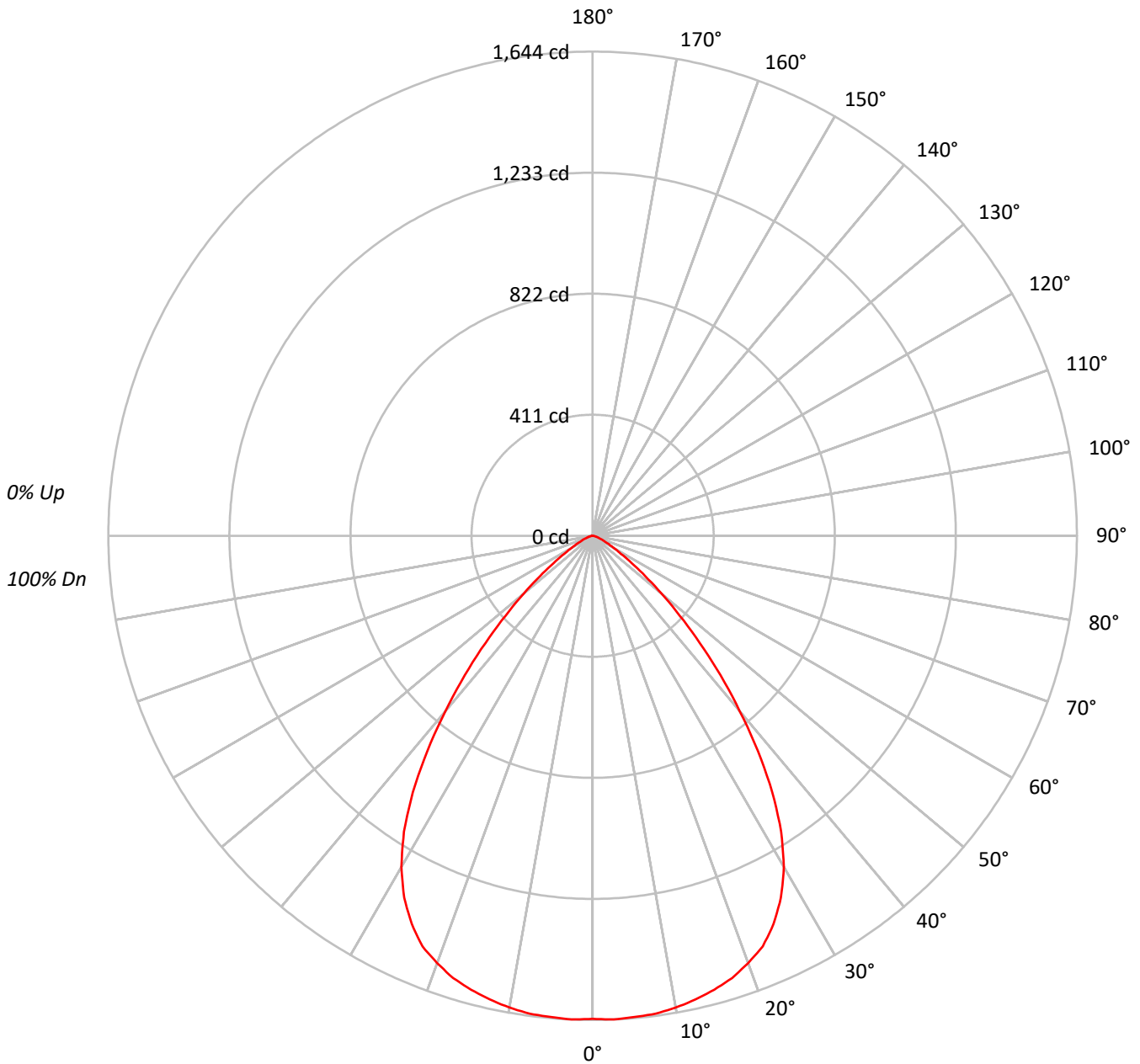
Lumens per Lamp: N/A
Luminaire Lumens: 2545.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100			100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			55
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			50
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			43
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	201529
5°	202299
10°	202916
15°	202927
20°	201807
25°	197082
30°	184204
35°	159515
40°	124610
45°	89407
50°	58083
55°	34763
60°	20345
65°	13052
70°	8693
75°	6550
80°	4882
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	6.1
10°-20°	450.1	17.7
20°-30°	664.2	26.1
30°-40°	655.5	25.8
40°-50°	401.1	15.8
50°-60°	153.8	6.0
60°-70°	48.1	1.9
70°-80°	14.1	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°	1270.6	49.9
0°-40°	1926.0	75.7
0°-60°	2480.9	97.5
0°-90°	2545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1640	
5°	1640	156
15°	1596	450
25°	1454	664
35°	1064	655
45°	515	401
55°	162	154
65°	45	48
75°	14	14
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1640.4
2.5°	1643.9
5°	1640.4
7.5°	1636.9
10°	1626.6
12.5°	1612.8
15°	1595.5
17.5°	1574.7
20°	1543.6
22.5°	1509.2
25°	1453.9
27.5°	1384.8
30°	1298.5
32.5°	1191.5
35°	1063.6
37.5°	922.0
40°	777.0
42.5°	642.3
45°	514.6
47.5°	400.5
50°	303.9
52.5°	224.5
55°	162.3
57.5°	113.9
60°	82.8
62.5°	62.2
65°	44.9
67.5°	34.6
70°	24.2
72.5°	17.3
75°	13.8
77.5°	6.9
80°	6.9
82.5°	3.5
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)