

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: P572743

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-27 F4X-W-X-H-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572743
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-25-D010 FEU4C-X-90-27 F4X-W-X-H-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

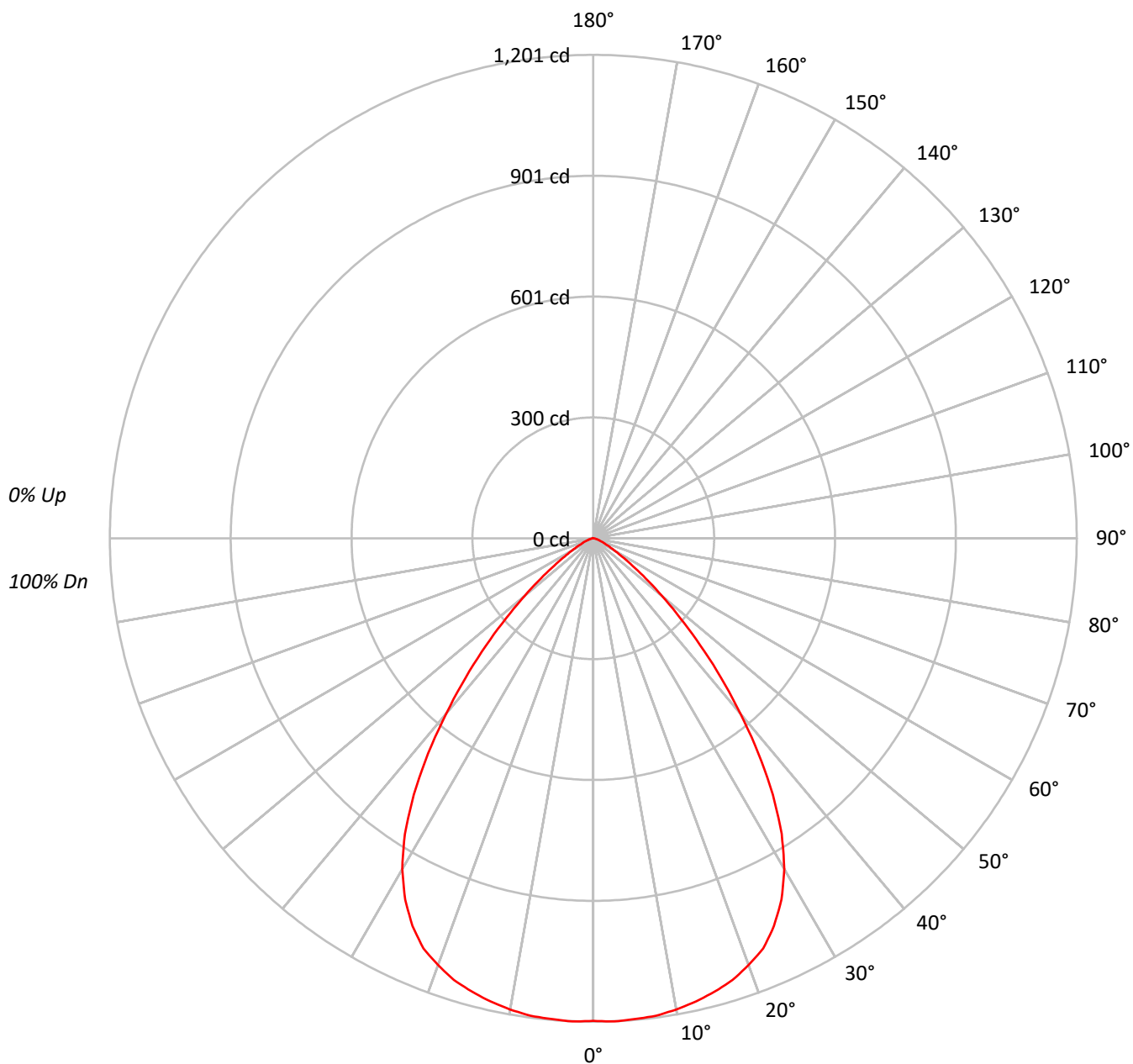
Lumens per Lamp: N/A
Luminaire Lumens: 1860.0 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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	112	109	106	104		110	107	104	102		103	101	99			99	97	96			91
2	105	100	95	91		103	98	93	90		95	91	88			91	88	86			82
3	99	91	85	80		97	90	84	80		87	82	78			84	80	77			74
4	92	83	77	72		90	82	76	71		80	75	70			78	73	70			67
5	87	77	70	65		85	76	69	64		74	68	64			72	67	63			61
6	81	71	64	58		80	70	63	58		68	62	58			67	61	57			55
7	76	65	58	53		75	65	58	53		63	57	53			62	56	52			50
8	72	60	53	49		70	60	53	49		59	53	48			58	52	48			46
9	68	56	49	45		66	56	49	45		55	49	44			54	48	44			43
10	64	52	46	41		63	52	46	41		51	45	41			50	45	41			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	147289
5°	147852
10°	148301
15°	148300
20°	147485
25°	144039
30°	134624
35°	116577
40°	91076
45°	65344
50°	42449
55°	25403
60°	14865
65°	9535
70°	6358
75°	4794
80°	3608
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	6.1
10°-20°	329.0	17.7
20°-30°	485.4	26.1
30°-40°	479.1	25.8
40°-50°	293.2	15.8
50°-60°	112.4	6.0
60°-70°	35.1	1.9
70°-80°	10.3	0.6
80°-90°	1.4	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°	928.6	49.9
0°-40°	1407.6	75.7
0°-60°	1813.2	97.5
0°-90°	1860.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1860.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1199	
5°	1199	114
15°	1166	329
25°	1063	485
35°	777	479
45°	376	293
55°	119	112
65°	33	35
75°	10	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1198.9
2.5°	1201.4
5°	1198.9
7.5°	1196.4
10°	1188.8
12.5°	1178.7
15°	1166.0
17.5°	1150.9
20°	1128.1
22.5°	1103.0
25°	1062.6
27.5°	1012.0
30°	949.0
32.5°	870.8
35°	777.3
37.5°	673.9
40°	567.9
42.5°	469.4
45°	376.1
47.5°	292.7
50°	222.1
52.5°	164.1
55°	118.6
57.5°	83.3
60°	60.5
62.5°	45.5
65°	32.8
67.5°	25.3
70°	17.7
72.5°	12.6
75°	10.1
77.5°	5.1
80°	5.1
82.5°	2.5
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)