

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: P573069

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-50 F4X-W-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573069
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-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

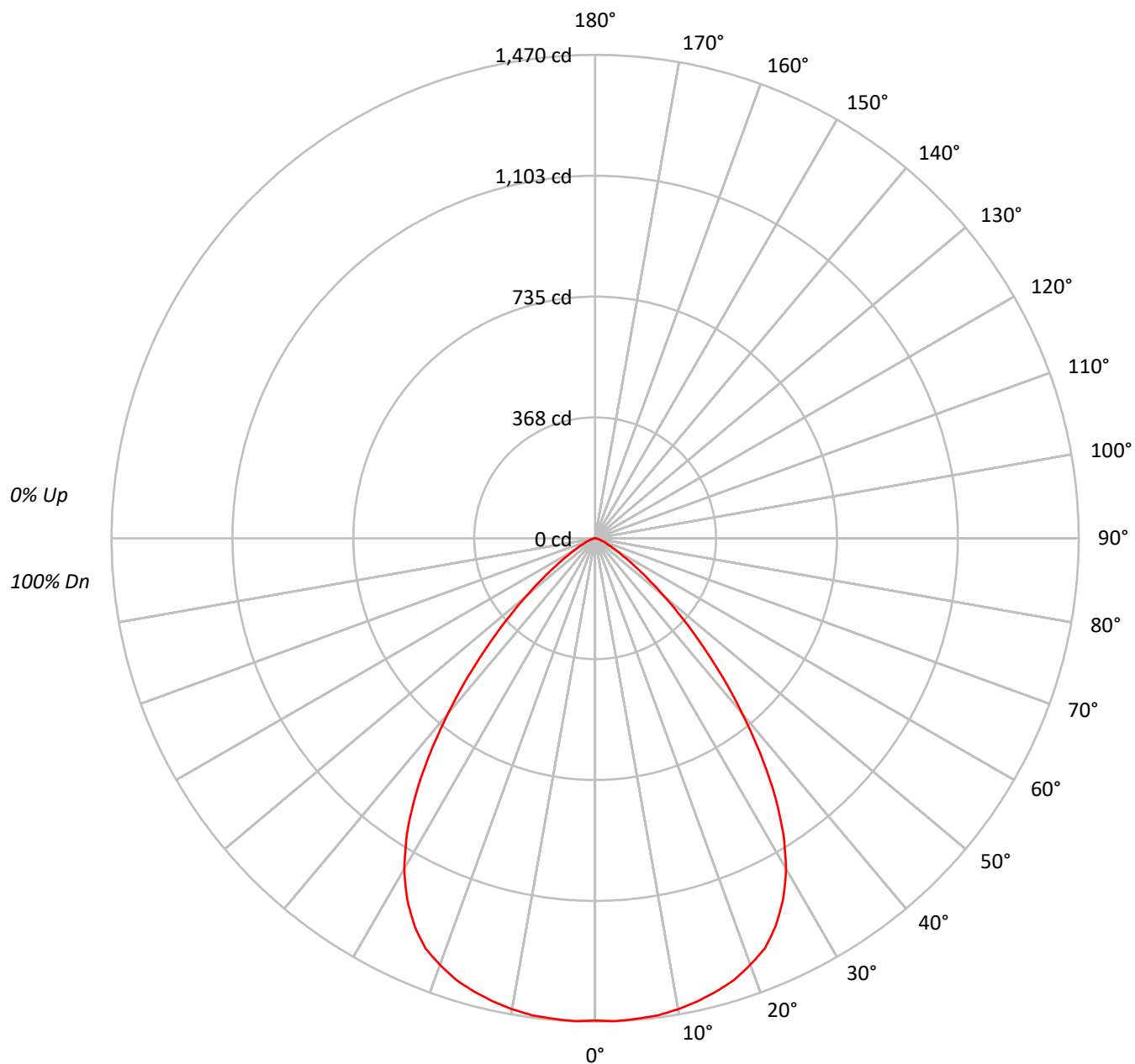
Lumens per Lamp: N/A
Luminaire Lumens: 2275.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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
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°	180152
5°	180840
10°	181385
15°	181394
20°	180405
25°	176179
30°	164656
35°	142598
40°	111396
45°	79921
50°	51910
55°	31079
60°	18182
65°	11686
70°	7759
75°	5886
80°	4386
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	6.1
10°-20°	402.4	17.7
20°-30°	593.8	26.1
30°-40°	585.9	25.8
40°-50°	358.6	15.8
50°-60°	137.4	6.0
60°-70°	43.0	1.9
70°-80°	12.6	0.6
80°-90°	1.7	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°	1135.8	49.9
0°-40°	1721.7	75.7
0°-60°	2217.7	97.5
0°-90°	2275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2275.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1466	
5°	1466	140
15°	1426	402
25°	1300	594
35°	951	586
45°	460	359
55°	145	137
65°	40	43
75°	12	13
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1466.4
2.5°	1469.5
5°	1466.4
7.5°	1463.3
10°	1454.0
12.5°	1441.7
15°	1426.2
17.5°	1407.7
20°	1379.9
22.5°	1349.1
25°	1299.7
27.5°	1237.8
30°	1160.7
32.5°	1065.1
35°	950.8
37.5°	824.2
40°	694.6
42.5°	574.2
45°	460.0
47.5°	358.0
50°	271.6
52.5°	200.7
55°	145.1
57.5°	101.8
60°	74.0
62.5°	55.6
65°	40.2
67.5°	30.9
70°	21.6
72.5°	15.5
75°	12.4
77.5°	6.2
80°	6.2
82.5°	3.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)