

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: P573753

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-40 F4X-W-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573753
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-90-40 F4X-W-X-H-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

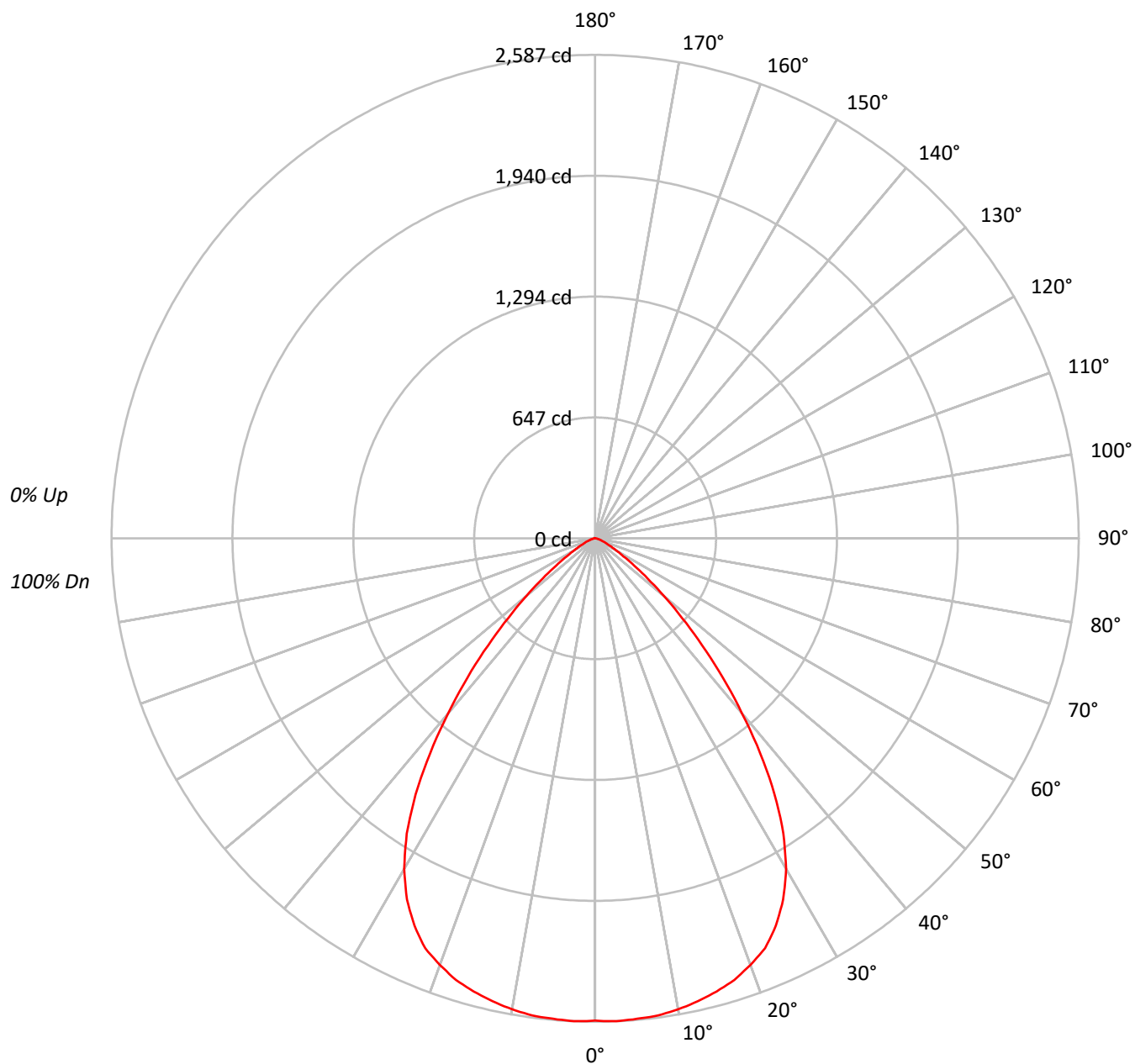
Lumens per Lamp: N/A
Luminaire Lumens: 4005.0 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	104		110	107	104	102		103	101	99		99	97	96		96	94	93
2	105	100	95	91		103	98	93	90		95	91	88		91	88	86		89	86	84
3	99	91	85	80		97	90	84	80		87	82	78		84	80	77		82	79	76
4	92	83	77	72		90	82	76	71		80	75	70		78	73	70		76	72	69
5	87	77	70	65		85	76	69	64		74	68	64		72	67	63		70	66	62
6	81	71	64	58		80	70	63	58		68	62	58		67	61	57		65	61	57
7	76	65	58	53		75	65	58	53		63	57	53		62	56	52		61	56	52
8	72	60	53	49		70	60	53	49		59	53	48		58	52	48		57	52	48
9	68	56	49	45		66	56	49	45		55	49	44		54	48	44		53	48	44
10	64	52	46	41		63	52	46	41		51	45	41		50	45	41		49	44	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	317146
5°	318358
10°	319319
15°	319329
20°	317576
25°	310147
30°	289875
35°	251016
40°	196089
45°	140696
50°	91396
55°	54704
60°	32016
65°	20552
70°	13686
75°	10348
80°	7712
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.8	6.1
10°-20°	708.3	17.7
20°-30°	1045.3	26.1
30°-40°	1031.5	25.8
40°-50°	631.2	15.8
50°-60°	242.0	6.0
60°-70°	75.7	1.9
70°-80°	22.2	0.6
80°-90°	2.9	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°	1999.4	49.9
0°-40°	3030.9	75.7
0°-60°	3904.2	97.5
0°-90°	4005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4005.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2582	
5°	2582	246
15°	2511	708
25°	2288	1045
35°	1674	1031
45°	810	631
55°	255	242
65°	71	76
75°	22	22
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2581.5
2.5°	2586.9
5°	2581.5
7.5°	2576.0
10°	2559.7
12.5°	2537.9
15°	2510.7
17.5°	2478.1
20°	2429.1
22.5°	2375.0
25°	2288.0
27.5°	2179.2
30°	2043.4
32.5°	1875.0
35°	1673.7
37.5°	1451.0
40°	1222.7
42.5°	1010.8
45°	809.8
47.5°	630.3
50°	478.2
52.5°	353.3
55°	255.4
57.5°	179.3
60°	130.3
62.5°	97.9
65°	70.7
67.5°	54.4
70°	38.1
72.5°	27.2
75°	21.8
77.5°	10.9
80°	10.9
82.5°	5.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)