

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: P572997

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-35 F4X-W-X-H-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572997
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-90-35 F4X-W-X-H-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

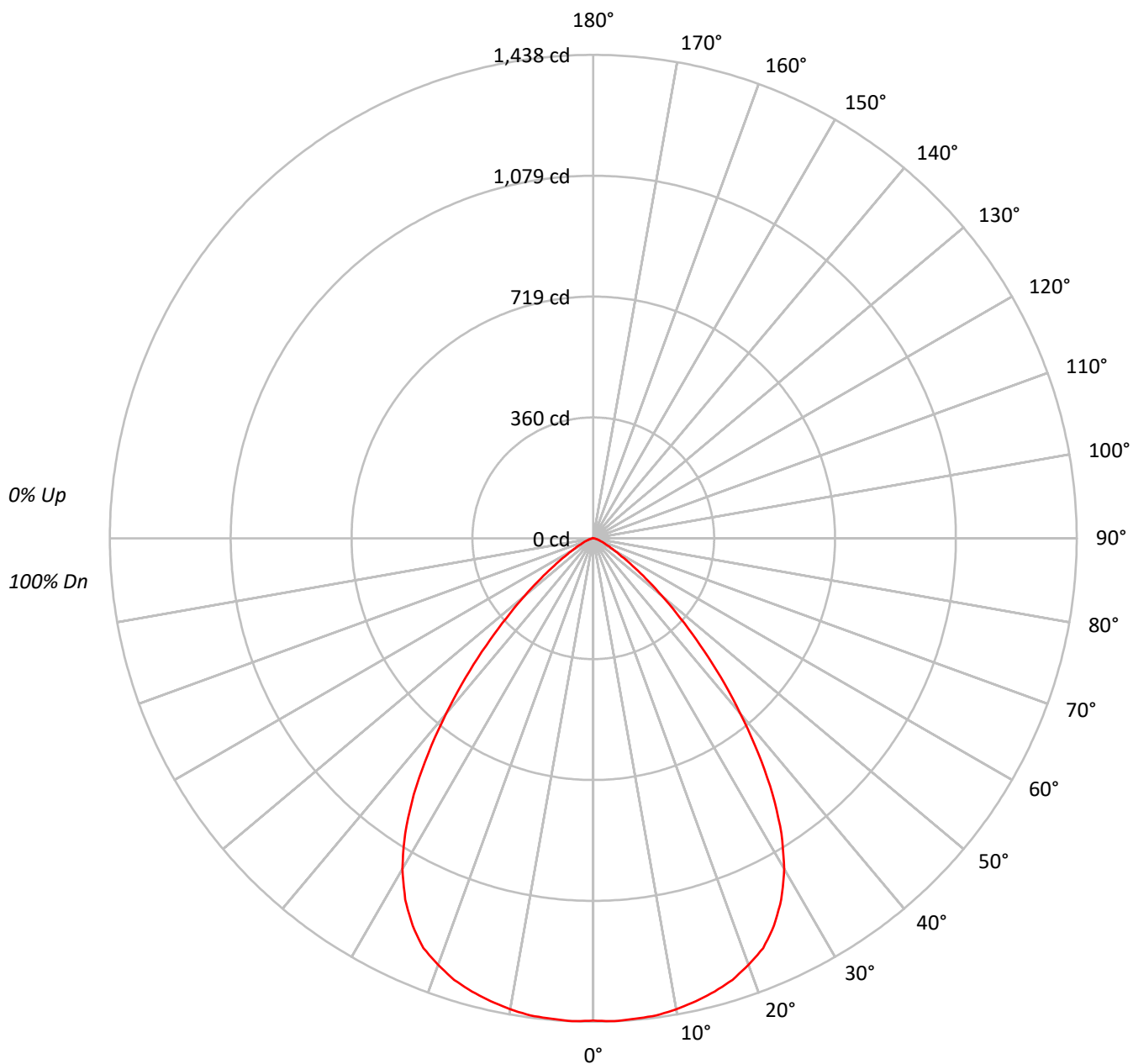
Lumens per Lamp: N/A
Luminaire Lumens: 2225.9 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V): NR
Input Current (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					0
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°	176270
5°	176943
10°	177480
15°	177490
20°	176509
25°	172384
30°	161109
35°	139523
40°	108990
45°	78201
50°	50801
55°	30415
60°	17789
65°	11424
70°	7615
75°	5743
80°	4245
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	6.1
10°-20°	393.7	17.7
20°-30°	581.0	26.1
30°-40°	573.3	25.8
40°-50°	350.8	15.8
50°-60°	134.5	6.0
60°-70°	42.0	1.9
70°-80°	12.3	0.6
80°-90°	1.6	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°	1111.3	49.9
0°-40°	1684.6	75.7
0°-60°	2170.0	97.5
0°-90°	2225.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1435	
5°	1435	137
15°	1396	394
25°	1272	581
35°	930	573
45°	450	351
55°	142	135
65°	39	42
75°	12	12
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1434.8
2.5°	1437.8
5°	1434.8
7.5°	1431.8
10°	1422.7
12.5°	1410.6
15°	1395.5
17.5°	1377.3
20°	1350.1
22.5°	1320.0
25°	1271.7
27.5°	1211.2
30°	1135.7
32.5°	1042.1
35°	930.3
37.5°	806.5
40°	679.6
42.5°	561.8
45°	450.1
47.5°	350.3
50°	265.8
52.5°	196.4
55°	142.0
57.5°	99.6
60°	72.4
62.5°	54.4
65°	39.3
67.5°	30.2
70°	21.2
72.5°	15.1
75°	12.1
77.5°	6.0
80°	6.0
82.5°	3.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)