

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: P573754

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-40 F4X-W-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573754
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-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

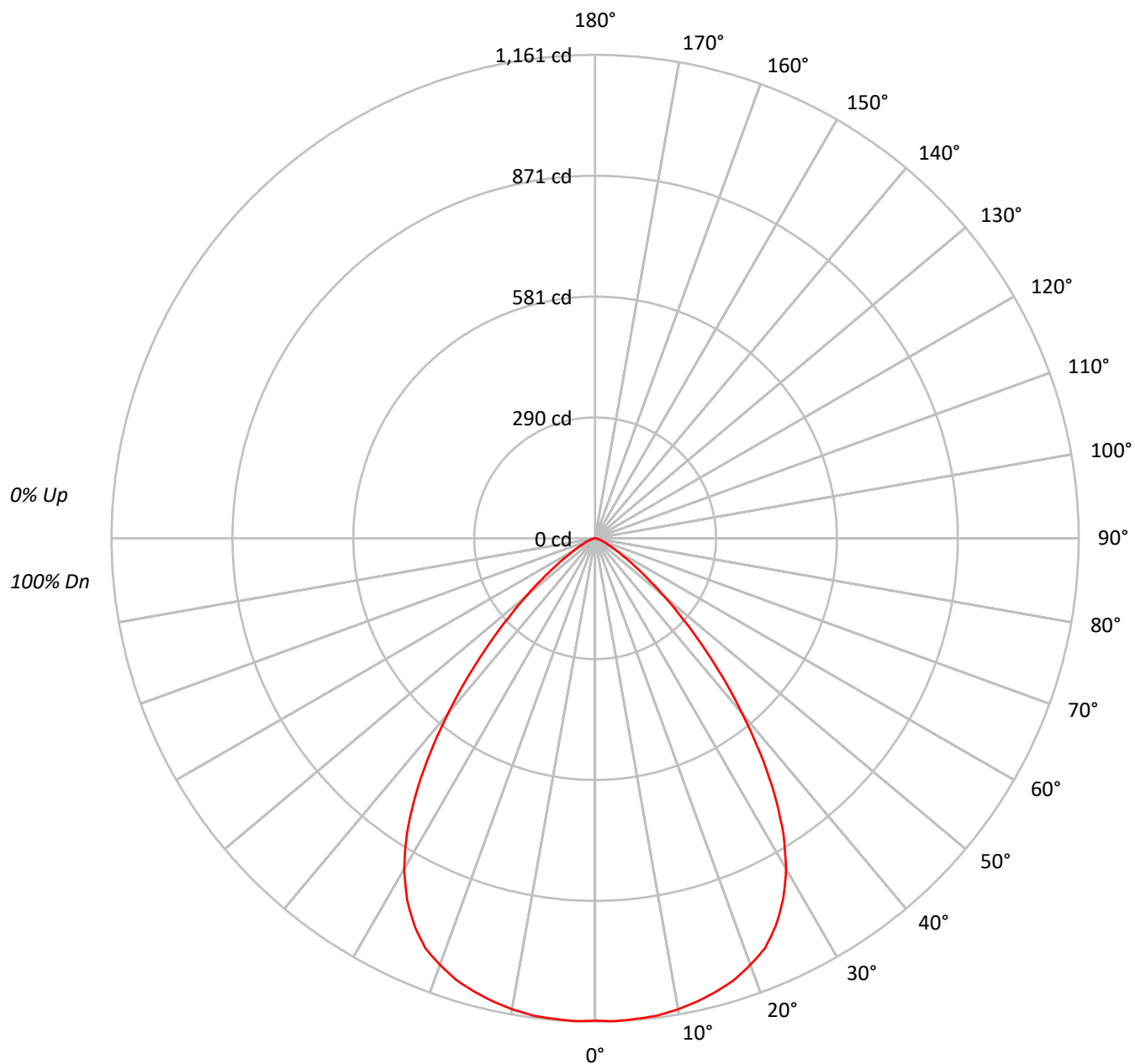
Lumens per Lamp: N/A
Luminaire Lumens: 1797.0 lumens
Efficiency: N/A
Efficacy: 30.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (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		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°	142301
5°	142845
10°	143274
15°	143276
20°	142491
25°	139160
30°	130070
35°	112632
40°	87981
45°	63120
50°	41016
55°	24546
60°	14374
65°	9215
70°	6142
75°	4652
80°	3467
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	6.1
10°-20°	317.8	17.7
20°-30°	469.0	26.1
30°-40°	462.8	25.8
40°-50°	283.2	15.8
50°-60°	108.6	6.0
60°-70°	33.9	1.9
70°-80°	10.0	0.6
80°-90°	1.3	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°	897.1	49.9
0°-40°	1359.9	75.7
0°-60°	1751.7	97.5
0°-90°	1797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1797.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1158	
5°	1158	110
15°	1126	318
25°	1027	469
35°	751	463
45°	363	283
55°	115	109
65°	32	34
75°	10	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1158.3
2.5°	1160.7
5°	1158.3
7.5°	1155.8
10°	1148.5
12.5°	1138.7
15°	1126.5
17.5°	1111.9
20°	1089.9
22.5°	1065.6
25°	1026.6
27.5°	977.8
30°	916.9
32.5°	841.3
35°	751.0
37.5°	651.0
40°	548.6
42.5°	453.5
45°	363.3
47.5°	282.8
50°	214.6
52.5°	158.5
55°	114.6
57.5°	80.4
60°	58.5
62.5°	43.9
65°	31.7
67.5°	24.4
70°	17.1
72.5°	12.2
75°	9.8
77.5°	4.9
80°	4.9
82.5°	2.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)