

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: P573778

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
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-90-50 F4X-N-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBNH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

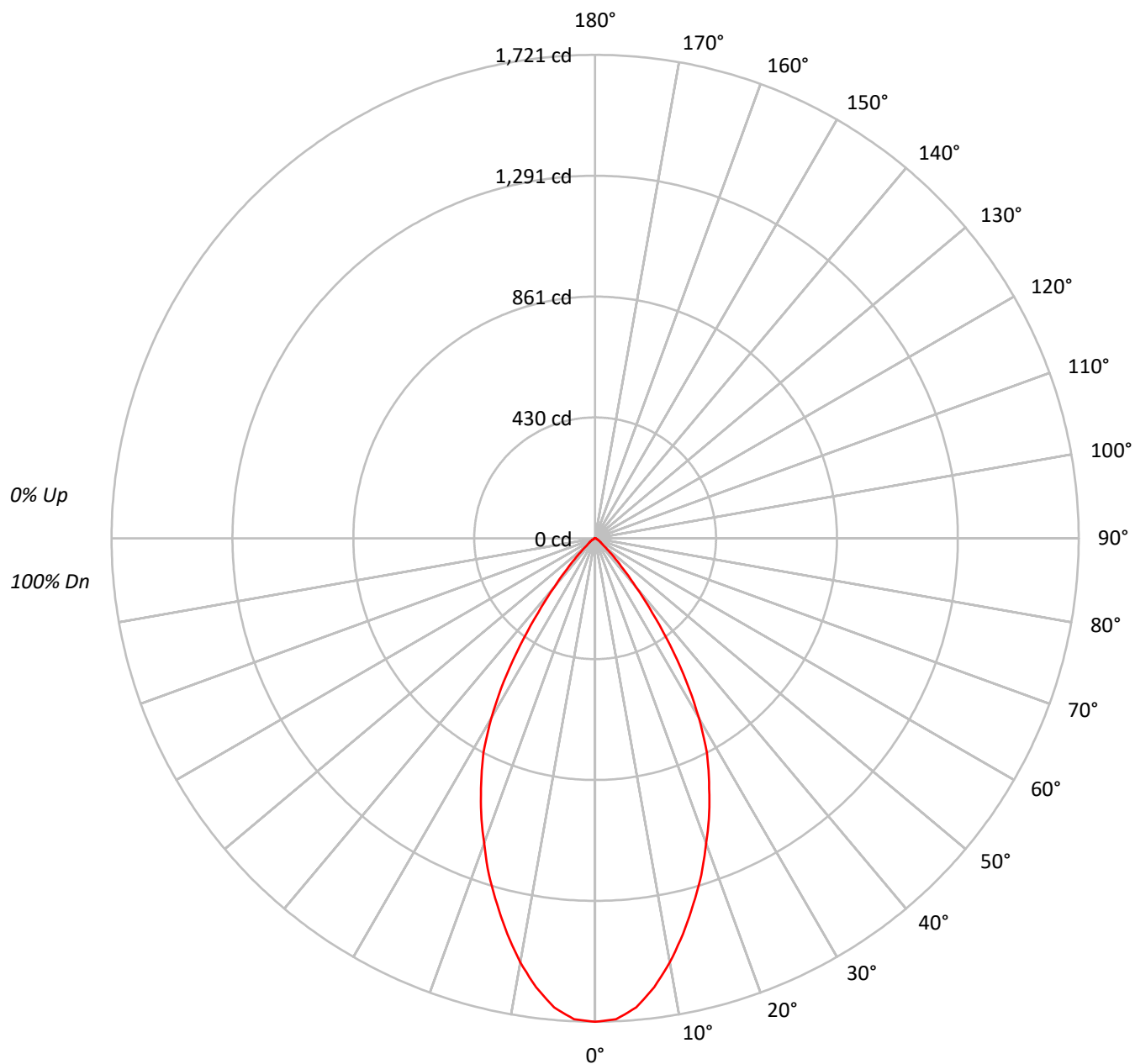
Lumens per Lamp: N/A
Luminaire Lumens: 1371.0 lumens
Efficiency: N/A
Efficacy: 23.5 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	113	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	94		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	89	83	79		86	82	78		84	81	78		83	79	77
5	92	84	78	74		91	83	78	73		81	76	73		80	75	72		78	74	72
6	88	79	73	69		86	78	72	68		76	72	68		75	71	67		74	70	67
7	83	74	68	64		82	73	68	64		72	67	63		71	66	63		70	66	63
8	79	70	64	60		78	69	64	60		68	63	59		67	63	59		66	62	59
9	76	66	60	56		74	65	60	56		65	59	56		64	59	56		63	59	55
10	72	62	57	53		71	62	56	53		61	56	53		60	56	52		60	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	211468
5°	206763
10°	191177
15°	171550
20°	151002
25°	129955
30°	104649
35°	69664
40°	36244
45°	16401
50°	7110
55°	4776
60°	3071
65°	2180
70°	1796
75°	1187
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	11.3
10°-20°	376.7	27.5
20°-30°	437.4	31.9
30°-40°	289.6	21.1
40°-50°	81.2	5.9
50°-60°	20.4	1.5
60°-70°	7.7	0.6
70°-80°	2.6	0.2
80°-90°	0.0	0.0
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°	969.4	70.7
0°-40°	1259.0	91.8
0°-60°	1360.7	99.2
0°-90°	1371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1371.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1721	
5°	1677	155
15°	1349	377
25°	959	437
35°	464	290
45°	94	81
55°	22	20
65°	8	8
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1721.3
2.5°	1713.9
5°	1676.6
7.5°	1612.0
10°	1532.5
12.5°	1443.1
15°	1348.8
17.5°	1256.8
20°	1155.0
22.5°	1060.6
25°	958.7
27.5°	861.9
30°	737.7
32.5°	606.0
35°	464.5
37.5°	332.9
40°	226.0
42.5°	146.5
45°	94.4
47.5°	57.2
50°	37.2
52.5°	27.3
55°	22.3
57.5°	17.4
60°	12.5
62.5°	10.0
65°	7.5
67.5°	5.0
70°	5.0
72.5°	2.5
75°	2.5
77.5°	2.5
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)