

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: P573766

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
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-M-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

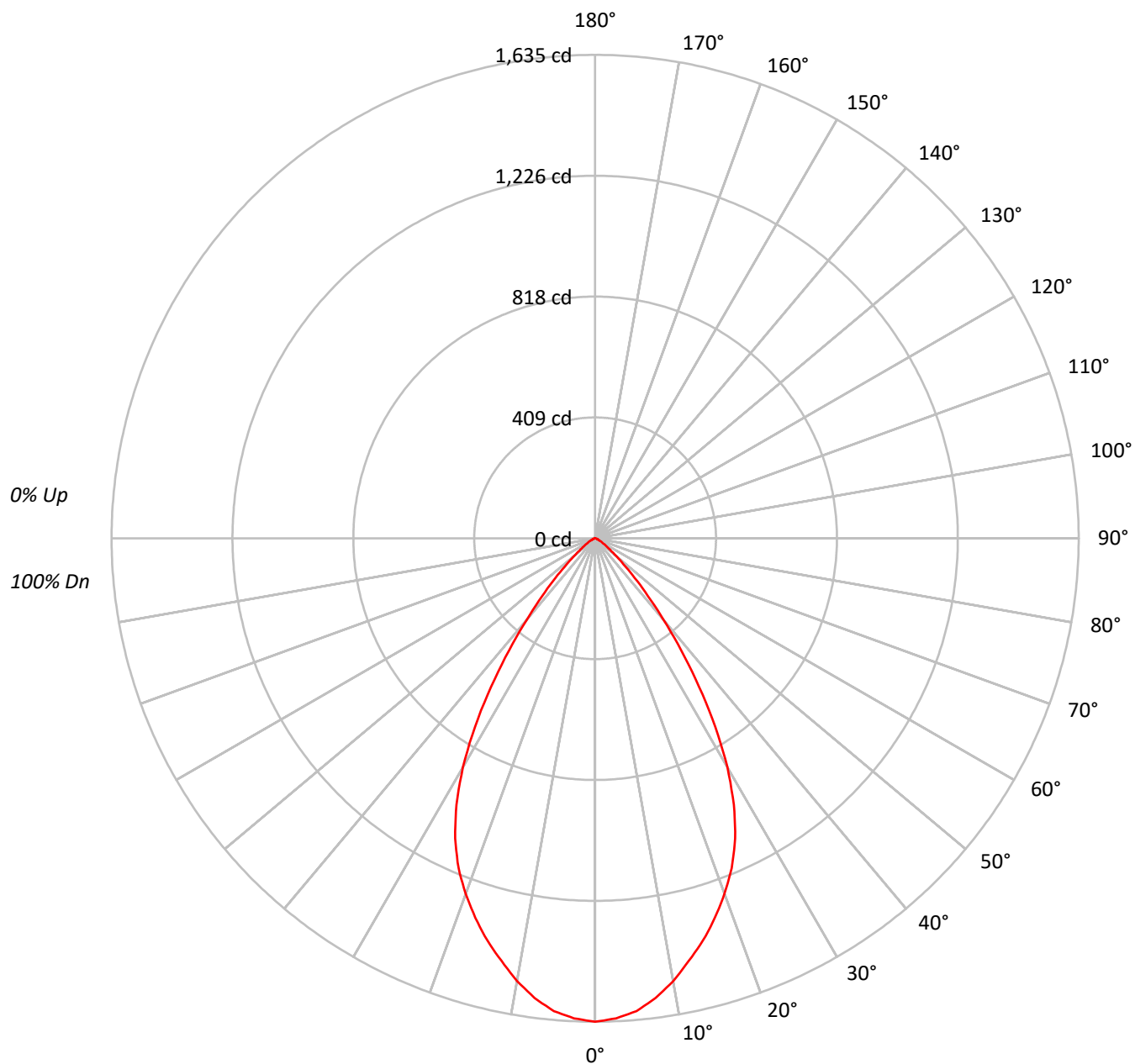
Lumens per Lamp: N/A
Luminaire Lumens: 1649.0 lumens
Efficiency: N/A
Efficacy: 28.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	110	108	105		111	108	106	104		104	102	100		100	99	97		97	96	95
2	107	102	98	94		105	100	96	93		97	94	91		94	91	89		91	89	87
3	101	94	89	85		99	93	88	84		90	86	83		88	84	82		86	83	80
4	96	88	82	77		94	86	81	77		84	80	76		82	78	75		80	77	74
5	90	82	75	71		89	81	75	70		79	74	70		77	73	69		75	72	69
6	86	76	70	65		84	75	69	65		74	68	64		72	68	64		71	67	64
7	81	71	65	60		80	70	64	60		69	64	60		68	63	59		67	62	59
8	77	67	60	56		75	66	60	56		65	59	56		64	59	55		63	58	55
9	73	63	56	52		72	62	56	52		61	56	52		60	55	52		59	55	52
10	69	59	53	49		68	59	53	49		58	52	49		57	52	48		56	52	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	200878
5°	197958
10°	189693
15°	179156
20°	167240
25°	151807
30°	126751
35°	91831
40°	57478
45°	32854
50°	17125
55°	9596
60°	6118
65°	3605
70°	2694
75°	1187
80°	1769
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	9.1
10°-20°	394.7	23.9
20°-30°	507.3	30.8
30°-40°	381.7	23.1
40°-50°	153.3	9.3
50°-60°	43.6	2.6
60°-70°	13.8	0.8
70°-80°	3.9	0.2
80°-90°	0.3	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°	1052.4	63.8
0°-40°	1434.1	87.0
0°-60°	1630.9	98.9
0°-90°	1649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1635	
5°	1605	150
15°	1409	395
25°	1120	507
35°	612	382
45°	189	153
55°	45	44
65°	12	14
75°	2	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1635.1
2.5°	1625.1
5°	1605.2
7.5°	1567.9
10°	1520.6
12.5°	1463.4
15°	1408.6
17.5°	1346.4
20°	1279.2
22.5°	1207.1
25°	1119.9
27.5°	1015.4
30°	893.5
32.5°	756.5
35°	612.3
37.5°	477.8
40°	358.4
42.5°	263.8
45°	189.1
47.5°	129.5
50°	89.6
52.5°	62.2
55°	44.8
57.5°	32.4
60°	24.9
62.5°	17.4
65°	12.4
67.5°	10.0
70°	7.5
72.5°	5.0
75°	2.5
77.5°	2.5
80°	2.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)