

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: P572746

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-27 F4X-W-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572746
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-25-D010 FEU4C-X-90-27 F4X-W-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

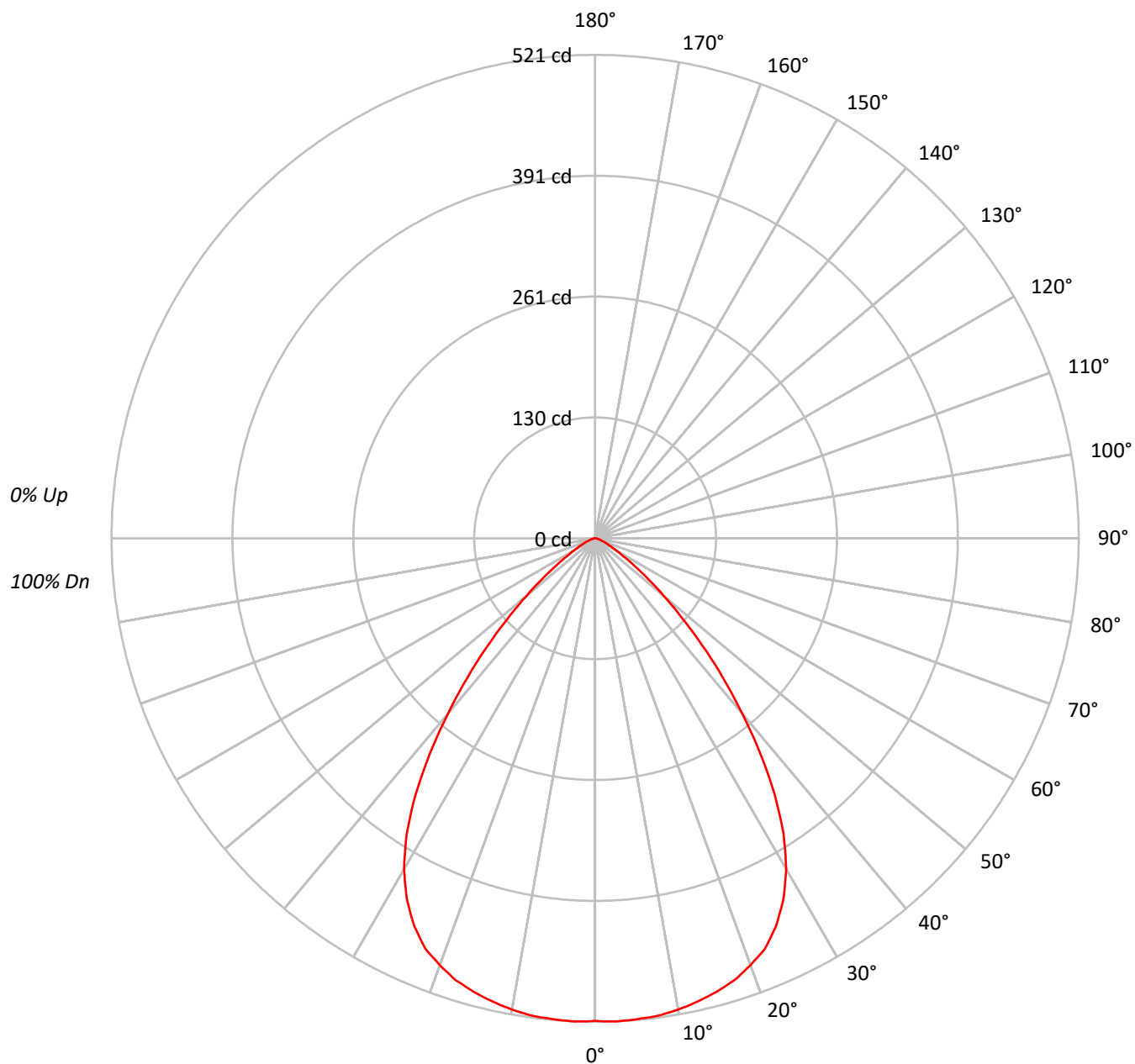
Lumens per Lamp: N/A
Luminaire Lumens: 807.1 lumens
Efficiency: N/A
Efficacy: 25.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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	67	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°	63908
5°	64152
10°	64345
15°	64344
20°	63996
25°	62490
30°	58403
35°	50587
40°	39516
45°	28355
50°	18425
55°	11031
60°	6462
65°	4128
70°	2766
75°	2089
80°	1556
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.5	6.1
10°-20°	142.7	17.7
20°-30°	210.6	26.1
30°-40°	207.9	25.8
40°-50°	127.2	15.8
50°-60°	48.8	6.0
60°-70°	15.2	1.9
70°-80°	4.5	0.6
80°-90°	0.6	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°	402.9	49.9
0°-40°	610.7	75.7
0°-60°	786.7	97.5
0°-90°	807.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	807.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	520	
5°	520	50
15°	506	143
25°	461	211
35°	337	208
45°	163	127
55°	52	49
65°	14	15
75°	4	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	520.2
2.5°	521.3
5°	520.2
7.5°	519.1
10°	515.8
12.5°	511.4
15°	505.9
17.5°	499.3
20°	489.5
22.5°	478.6
25°	461.0
27.5°	439.1
30°	411.7
32.5°	377.8
35°	337.3
37.5°	292.4
40°	246.4
42.5°	203.7
45°	163.2
47.5°	127.0
50°	96.4
52.5°	71.2
55°	51.5
57.5°	36.1
60°	26.3
62.5°	19.7
65°	14.2
67.5°	11.0
70°	7.7
72.5°	5.5
75°	4.4
77.5°	2.2
80°	2.2
82.5°	1.1
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)