

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: P573250

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-50 F4X-W-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573250
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-35-D010 FEU4C-X-90-50 F4X-W-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

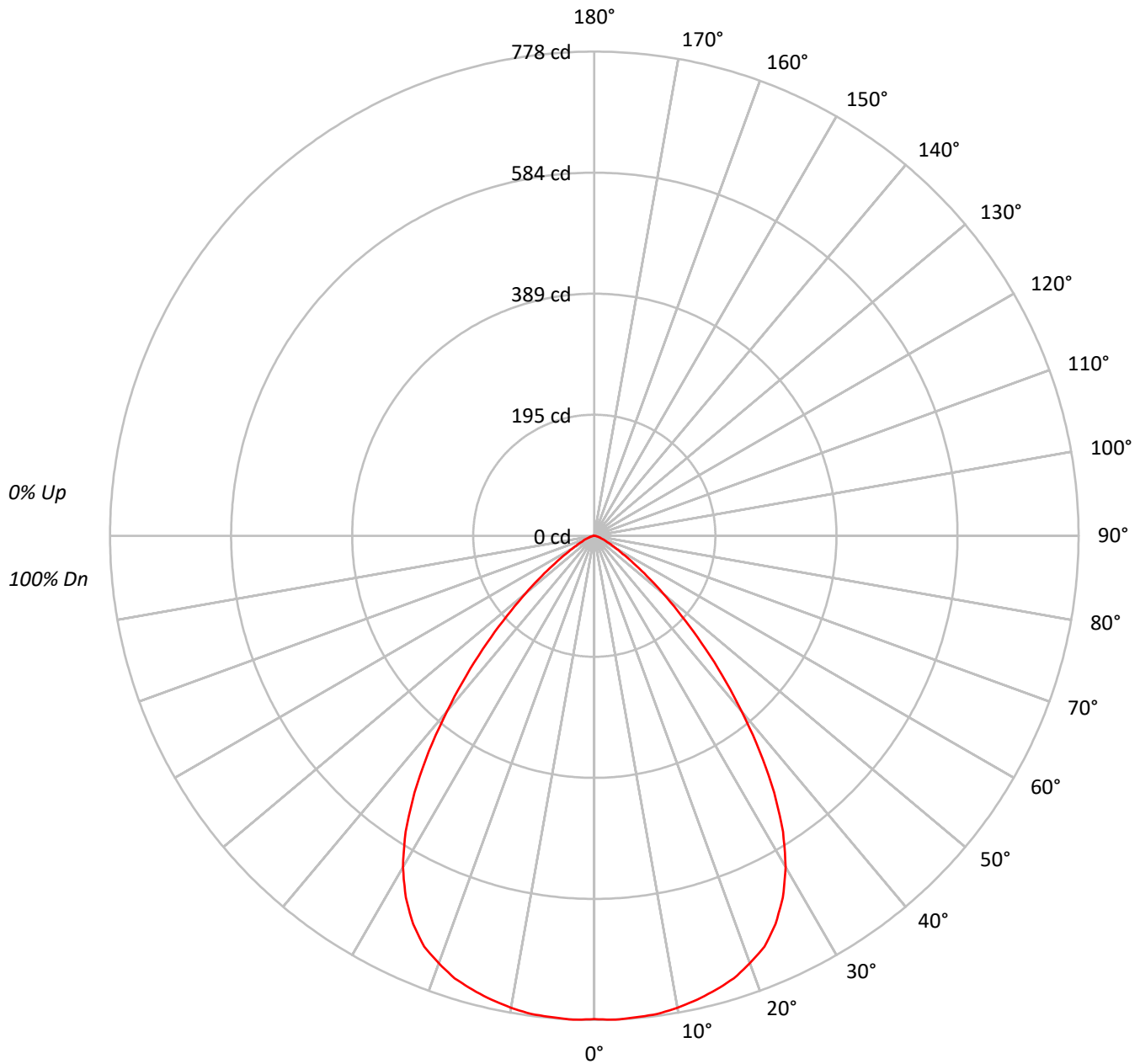
Lumens per Lamp: N/A
Luminaire Lumens: 1205.0 lumens
Efficiency: N/A
Efficacy: 29.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
Input Voltage (V): NR
Input Current (A_{in}): 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°	95420
5°	95785
10°	96069
15°	96077
20°	95556
25°	93315
30°	87215
35°	75528
40°	59002
45°	42323
50°	27503
55°	16471
60°	9632
65°	6192
70°	4131
75°	3085
80°	2335
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.0	6.1
10°-20°	213.1	17.7
20°-30°	314.5	26.1
30°-40°	310.4	25.8
40°-50°	189.9	15.8
50°-60°	72.8	6.0
60°-70°	22.8	1.9
70°-80°	6.7	0.6
80°-90°	0.9	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°	601.6	49.9
0°-40°	911.9	75.7
0°-60°	1174.7	97.5
0°-90°	1205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1205.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	777	
5°	777	74
15°	755	213
25°	688	315
35°	504	310
45°	244	190
55°	77	73
65°	21	23
75°	6	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	776.7
2.5°	778.3
5°	776.7
7.5°	775.1
10°	770.1
12.5°	763.6
15°	755.4
17.5°	745.6
20°	730.9
22.5°	714.6
25°	688.4
27.5°	655.7
30°	614.8
32.5°	564.1
35°	503.6
37.5°	436.6
40°	367.9
42.5°	304.1
45°	243.6
47.5°	189.6
50°	143.9
52.5°	106.3
55°	76.9
57.5°	53.9
60°	39.2
62.5°	29.5
65°	21.3
67.5°	16.4
70°	11.5
72.5°	8.2
75°	6.5
77.5°	3.3
80°	3.3
82.5°	1.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)