

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: P573214

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-40 F4X-W-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573214
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-90-40 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

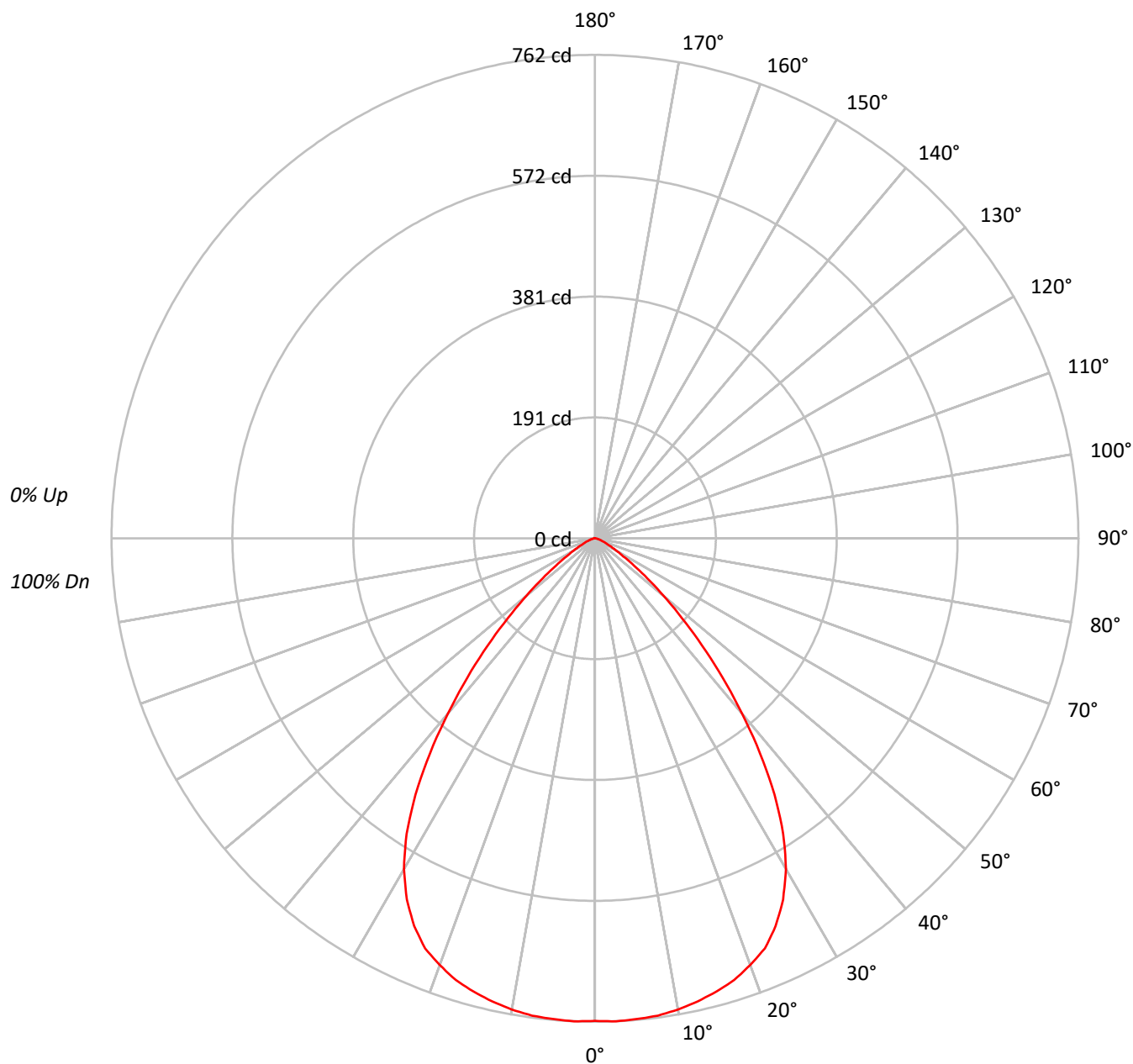
Lumens per Lamp: N/A
Luminaire Lumens: 1180.0 lumens
Efficiency: N/A
Efficacy: 29.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
Input Voltage (V): NR
Input Current (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°	93442
5°	93799
10°	94085
15°	94080
20°	93569
25°	91377
30°	85413
35°	73953
40°	57783
45°	41455
50°	26930
55°	16128
60°	9435
65°	6046
70°	4023
75°	3038
80°	2264
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	6.1
10°-20°	208.7	17.7
20°-30°	308.0	26.1
30°-40°	303.9	25.8
40°-50°	186.0	15.8
50°-60°	71.3	6.0
60°-70°	22.3	1.9
70°-80°	6.5	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°	589.1	49.9
0°-40°	893.0	75.7
0°-60°	1150.3	97.5
0°-90°	1180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1180.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	761	
5°	761	72
15°	740	209
25°	674	308
35°	493	304
45°	239	186
55°	75	71
65°	21	22
75°	6	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	760.6
2.5°	762.2
5°	760.6
7.5°	759.0
10°	754.2
12.5°	747.8
15°	739.7
17.5°	730.1
20°	715.7
22.5°	699.7
25°	674.1
27.5°	642.0
30°	602.1
32.5°	552.4
35°	493.1
37.5°	427.5
40°	360.3
42.5°	297.8
45°	238.6
47.5°	185.7
50°	140.9
52.5°	104.1
55°	75.3
57.5°	52.8
60°	38.4
62.5°	28.8
65°	20.8
67.5°	16.0
70°	11.2
72.5°	8.0
75°	6.4
77.5°	3.2
80°	3.2
82.5°	1.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)