

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: P573538

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-35 F4X-W-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573538
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-45-D010 FEU4C-X-90-35 F4X-W-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

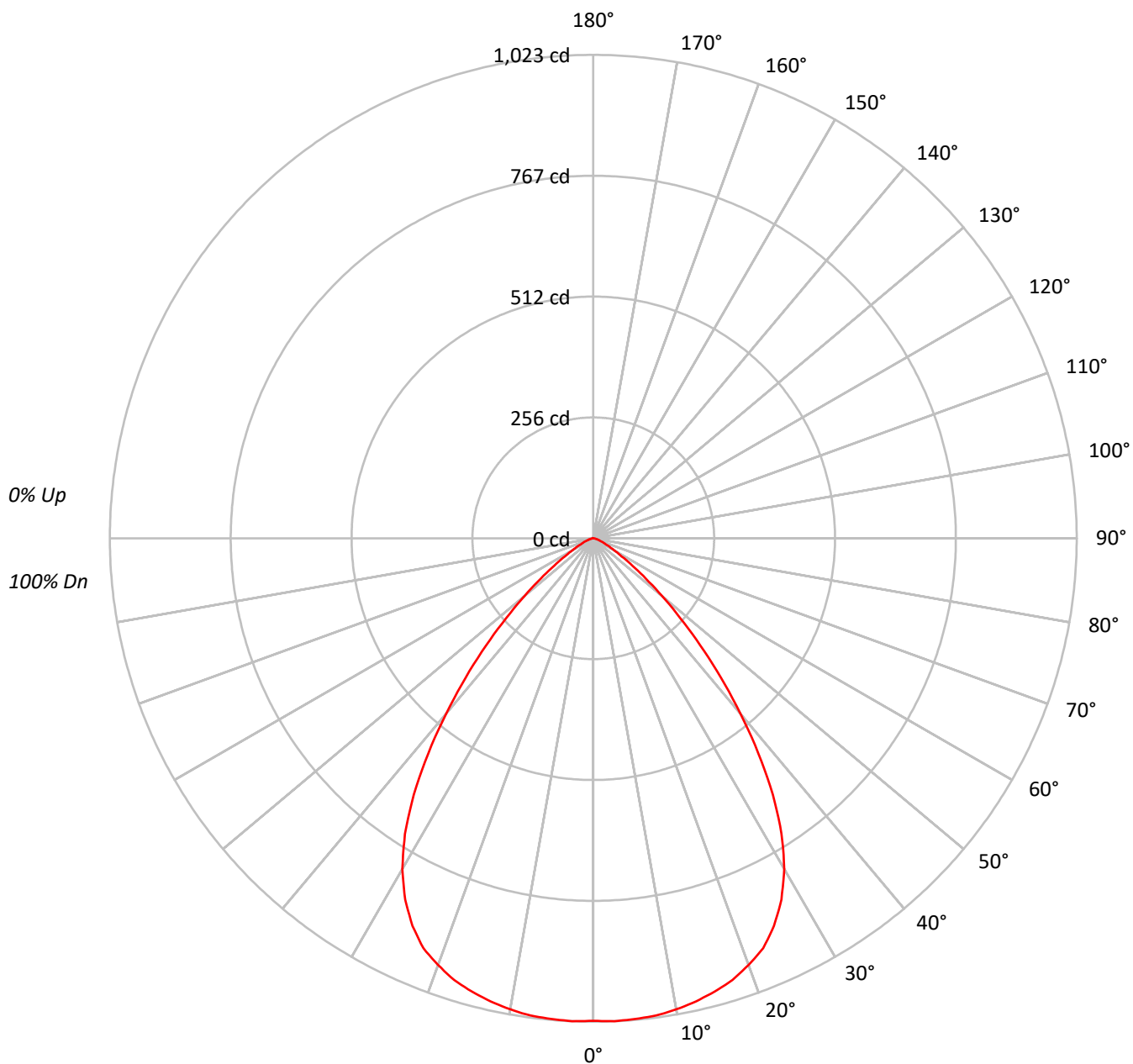
Lumens per Lamp: N/A
Luminaire Lumens: 1584.0 lumens
Efficiency: N/A
Efficacy: 31.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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°	125433
5°	125913
10°	126296
15°	126297
20°	125600
25°	122663
30°	114650
35°	99284
40°	77557
45°	55649
50°	36142
55°	21633
60°	12654
65°	8139
70°	5424
75°	4082
80°	3042
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	6.1
10°-20°	280.2	17.7
20°-30°	413.4	26.1
30°-40°	408.0	25.8
40°-50°	249.7	15.8
50°-60°	95.7	6.0
60°-70°	29.9	1.9
70°-80°	8.8	0.6
80°-90°	1.2	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°	790.8	49.9
0°-40°	1198.8	75.7
0°-60°	1544.1	97.5
0°-90°	1584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1021	
5°	1021	97
15°	993	280
25°	905	413
35°	662	408
45°	320	250
55°	101	96
65°	28	30
75°	9	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1021.0
2.5°	1023.1
5°	1021.0
7.5°	1018.8
10°	1012.4
12.5°	1003.8
15°	993.0
17.5°	980.1
20°	960.7
22.5°	939.3
25°	904.9
27.5°	861.9
30°	808.2
32.5°	741.6
35°	662.0
37.5°	573.9
40°	483.6
42.5°	399.8
45°	320.3
47.5°	249.3
50°	189.1
52.5°	139.7
55°	101.0
57.5°	70.9
60°	51.5
62.5°	38.7
65°	28.0
67.5°	21.5
70°	15.1
72.5°	10.8
75°	8.6
77.5°	4.3
80°	4.3
82.5°	2.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)