

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: P573463

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-27 F4X-W-X-H-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573463
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-90-27 F4X-W-X-H-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

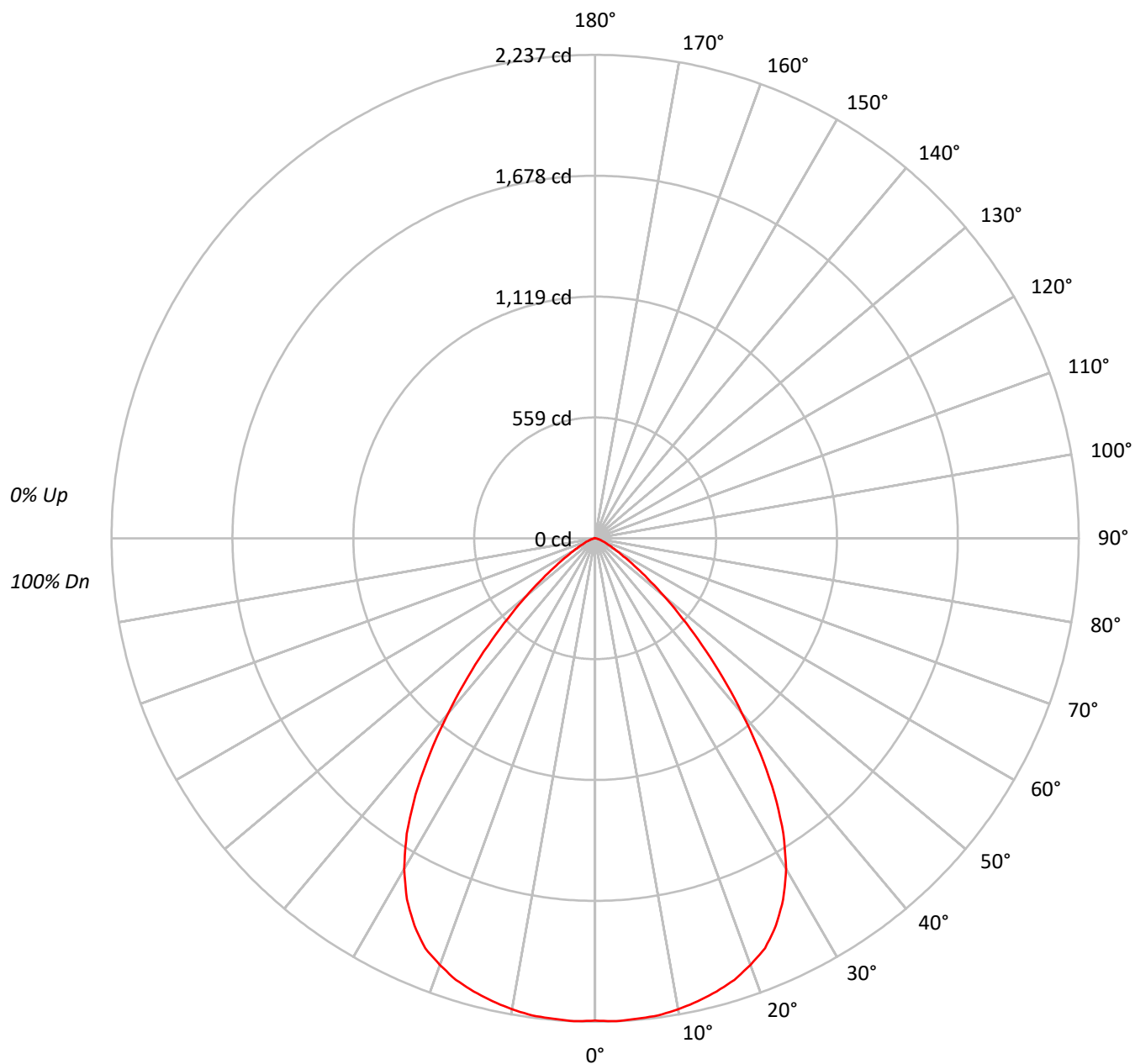
Lumens per Lamp: N/A
Luminaire Lumens: 3463.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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°	274221
5°	275269
10°	276106
15°	276124
20°	274602
25°	268166
30°	250651
35°	217046
40°	169563
45°	121653
50°	79031
55°	47314
60°	27691
65°	17762
70°	11818
75°	8924
80°	6650
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	6.1
10°-20°	612.5	17.7
20°-30°	903.8	26.1
30°-40°	891.9	25.8
40°-50°	545.8	15.8
50°-60°	209.3	6.0
60°-70°	65.4	1.9
70°-80°	19.2	0.6
80°-90°	2.6	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°	1728.9	49.9
0°-40°	2620.8	75.7
0°-60°	3375.9	97.5
0°-90°	3463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3463.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2232	
5°	2232	213
15°	2171	612
25°	1978	904
35°	1447	892
45°	700	546
55°	221	209
65°	61	65
75°	19	19
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2232.1
2.5°	2236.8
5°	2232.1
7.5°	2227.4
10°	2213.3
12.5°	2194.5
15°	2171.0
17.5°	2142.7
20°	2100.4
22.5°	2053.6
25°	1978.3
27.5°	1884.3
30°	1766.9
32.5°	1621.3
35°	1447.2
37.5°	1254.6
40°	1057.3
42.5°	874.0
45°	700.2
47.5°	545.0
50°	413.5
52.5°	305.5
55°	220.9
57.5°	155.0
60°	112.7
62.5°	84.7
65°	61.1
67.5°	47.0
70°	32.9
72.5°	23.5
75°	18.8
77.5°	9.4
80°	9.4
82.5°	4.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)