

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: P573548

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-40 F4X-M-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
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-90-40 F4X-M-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

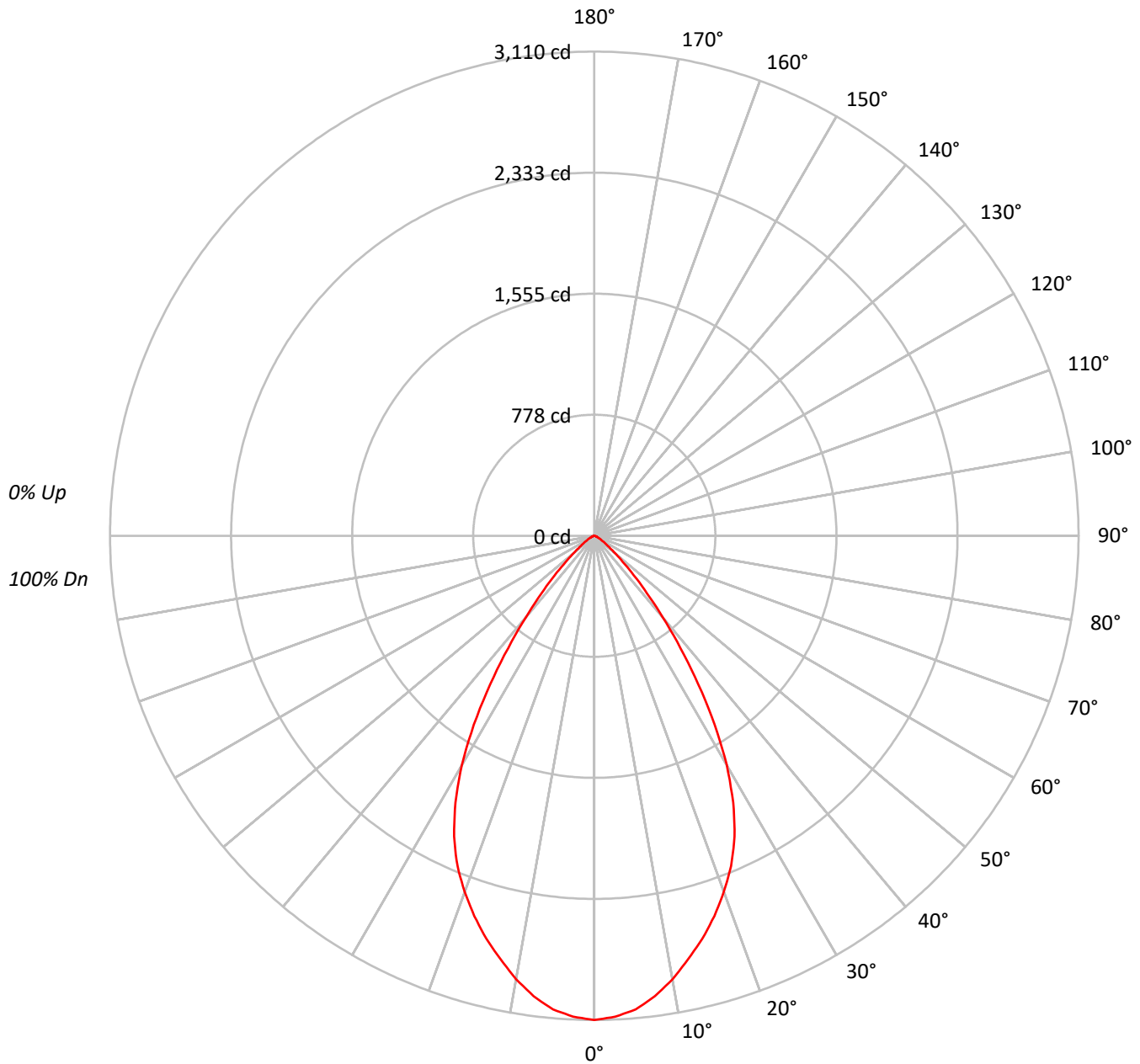
Lumens per Lamp: N/A
Luminaire Lumens: 3137.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	113	110	108	105		111	108	106	104		104	102	100			100	99	97			97
2	107	102	98	94		105	100	96	93		97	94	91			94	91	89			91
3	101	94	89	85		99	93	88	84		90	86	83			88	84	82			86
4	96	88	82	77		94	86	81	77		84	80	76			82	78	75			80
5	90	82	75	71		89	81	75	70		79	74	70			77	73	69			75
6	86	76	70	65		84	75	69	65		74	68	64			72	68	64			71
7	81	71	65	60		80	70	64	60		69	64	60			68	63	59			67
8	77	67	60	56		75	66	60	56		65	59	56			64	59	55			63
9	73	63	56	52		72	62	56	52		61	56	52			60	55	52			59
10	69	59	53	49		68	59	53	49		58	52	49			57	52	48			56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	382136
5°	376591
10°	360861
15°	340824
20°	318138
25°	288797
30°	241118
35°	174678
40°	109343
45°	62512
50°	32587
55°	18270
60°	11647
65°	6889
70°	5101
75°	2231
80°	3325
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.2	9.1
10°-20°	750.9	23.9
20°-30°	965.0	30.8
30°-40°	726.0	23.1
40°-50°	291.6	9.3
50°-60°	82.9	2.6
60°-70°	26.3	0.8
70°-80°	7.5	0.2
80°-90°	0.6	0.0
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°	2002.1	63.8
0°-40°	2728.1	87.0
0°-60°	3102.6	98.9
0°-90°	3137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3137.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3110	
5°	3054	286
15°	2680	751
25°	2130	965
35°	1165	726
45°	360	292
55°	85	83
65°	24	26
75°	5	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3110.5
2.5°	3091.6
5°	3053.7
7.5°	2982.6
10°	2892.7
12.5°	2783.9
15°	2679.7
17.5°	2561.3
20°	2433.4
22.5°	2296.3
25°	2130.5
27.5°	1931.6
30°	1699.7
32.5°	1439.2
35°	1164.7
37.5°	909.0
40°	681.8
42.5°	501.8
45°	359.8
47.5°	246.3
50°	170.5
52.5°	118.4
55°	85.3
57.5°	61.6
60°	47.4
62.5°	33.2
65°	23.7
67.5°	18.9
70°	14.2
72.5°	9.5
75°	4.7
77.5°	4.7
80°	4.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)