

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: P573512

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-35 F4X-M-X-H-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573512
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-90-35 F4X-M-X-H-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

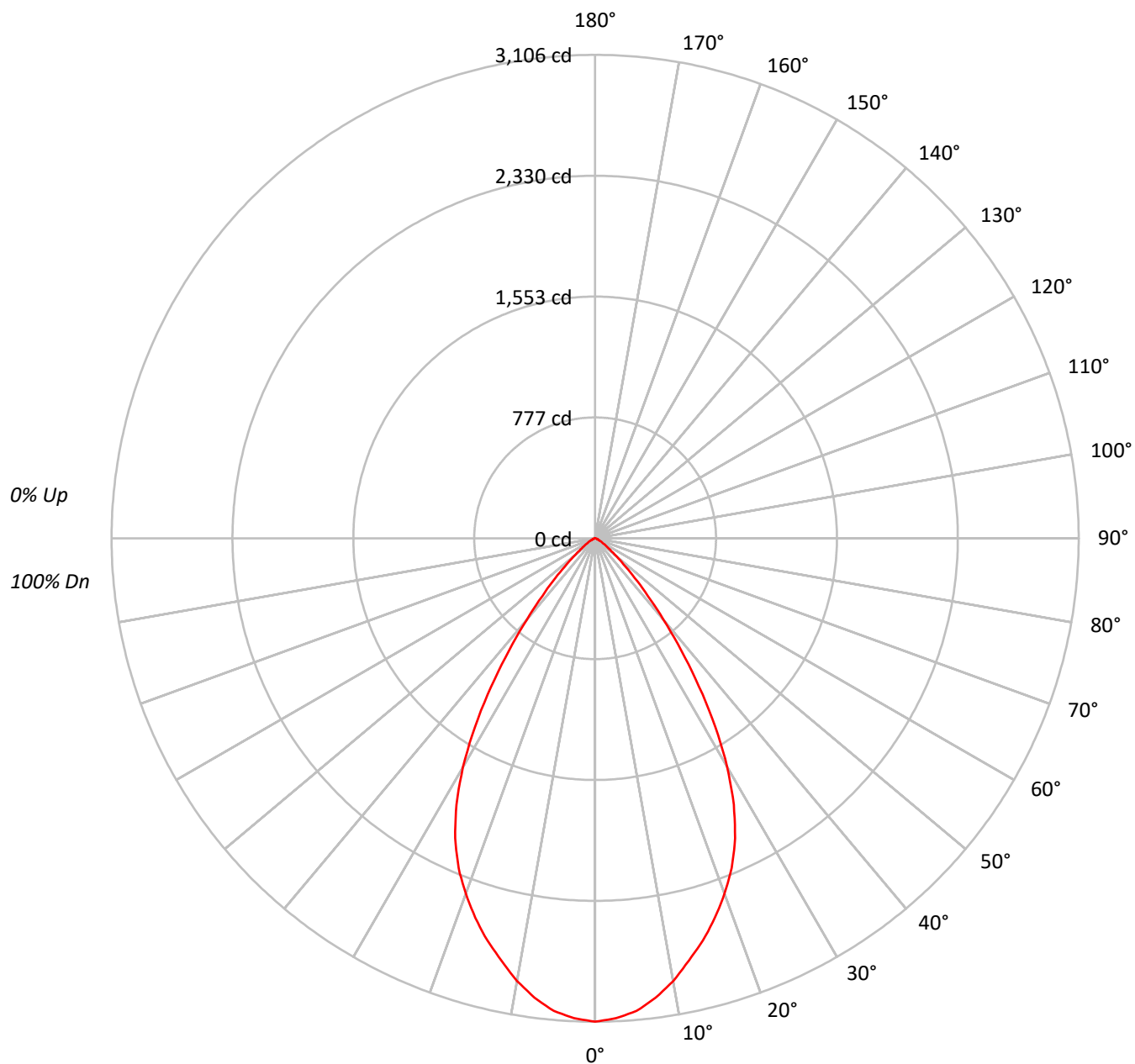
Lumens per Lamp: N/A
Luminaire Lumens: 3131.9 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (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	113	110	108	105		111	108	106	104		104	102	100		100	99	97		97	96	95
2	107	102	98	94		105	100	96	93		97	94	91		94	91	89		91	89	87
3	101	94	89	85		99	93	88	84		90	86	83		88	84	82		86	83	80
4	96	88	82	77		94	86	81	77		84	80	76		82	78	75		80	77	74
5	90	82	75	71		89	81	75	70		79	74	70		77	73	69		75	72	69
6	86	76	70	65		84	75	69	65		74	68	64		72	68	64		71	67	64
7	81	71	65	60		80	70	64	60		69	64	60		68	63	59		67	62	59
8	77	67	60	56		75	66	60	56		65	59	56		64	59	55		63	58	55
9	73	63	56	52		72	62	56	52		61	56	52		60	55	52		59	55	52
10	69	59	53	49		68	59	53	49		58	52	49		57	52	48		56	52	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	381534
5°	375986
10°	360274
15°	340290
20°	317641
25°	288337
30°	240735
35°	174408
40°	109166
45°	62408
50°	32530
55°	18227
60°	11622
65°	6860
70°	5101
75°	2231
80°	3325
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	9.1
10°-20°	749.7	23.9
20°-30°	963.5	30.8
30°-40°	724.9	23.1
40°-50°	291.1	9.3
50°-60°	82.8	2.6
60°-70°	26.2	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°	1998.9	63.8
0°-40°	2723.8	87.0
0°-60°	3097.7	98.9
0°-90°	3131.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3131.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3106	
5°	3049	286
15°	2676	750
25°	2127	963
35°	1163	725
45°	359	291
55°	85	83
65°	24	26
75°	5	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3105.6
2.5°	3086.7
5°	3048.8
7.5°	2977.9
10°	2888.0
12.5°	2779.5
15°	2675.5
17.5°	2557.2
20°	2429.6
22.5°	2292.6
25°	2127.1
27.5°	1928.5
30°	1697.0
32.5°	1436.9
35°	1162.9
37.5°	907.5
40°	680.7
42.5°	501.0
45°	359.2
47.5°	245.9
50°	170.2
52.5°	118.2
55°	85.1
57.5°	61.5
60°	47.3
62.5°	33.1
65°	23.6
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)