

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: P573710

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-35 F4X-N-X-LI-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208279)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-50-D010 FEU4C-X-90-35 F4X-N-X-LI-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 4LBNI TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

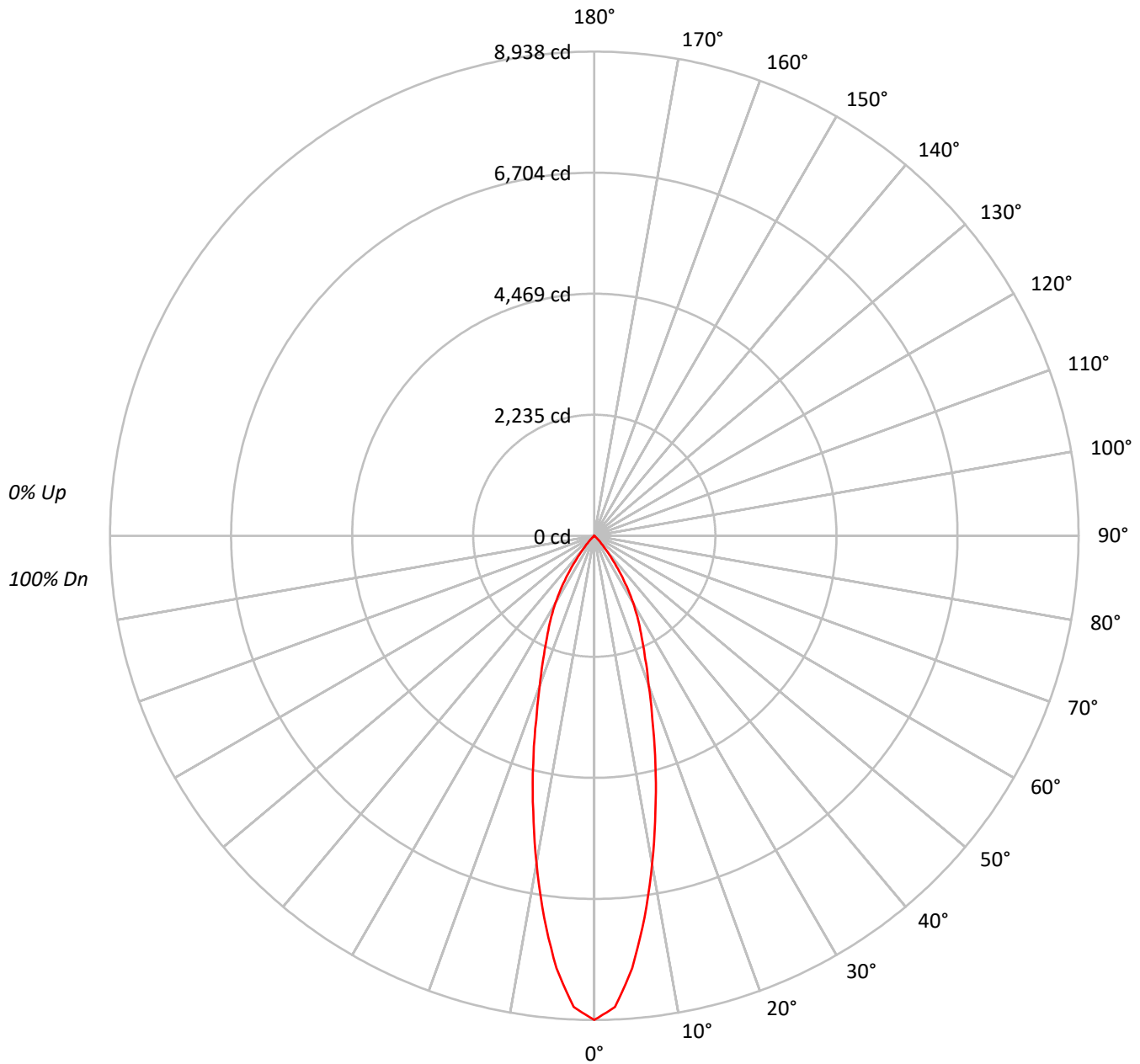
Lumens per Lamp: N/A
Luminaire Lumens: 3473.0 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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			0
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			100
1	114	112	110	108		112	110	108	106		106	104	103			102	101	100			95
2	109	105	102	99		107	103	100	98		100	98	95			97	95	93			90
3	105	99	95	92		103	98	94	91		95	92	89			93	90	88			85
4	101	94	89	86		99	93	88	85		91	87	84			89	86	83			81
5	96	89	84	80		95	88	84	80		87	82	79			85	81	79			77
6	92	85	80	76		91	84	79	76		83	78	75			81	78	75			73
7	89	81	76	72		88	80	75	72		79	75	71			78	74	71			69
8	85	77	72	68		84	77	72	68		76	71	68			75	71	68			66
9	82	74	69	65		81	73	68	65		72	68	65			72	68	65			63
10	79	71	66	62		78	70	65	62		69	65	62			69	65	62			61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1098003
5°	988087
10°	765982
15°	554422
20°	383886
25°	279864
30°	203355
35°	120326
40°	50614
45°	15776
50°	2045
55°	1157
60°	1327
65°	1570
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.3	20.3
10°-20°	1205.8	34.7
20°-30°	958.3	27.6
30°-40°	507.3	14.6
40°-50°	87.4	2.5
50°-60°	6.6	0.2
60°-70°	3.3	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	2868.5	82.6
0°-40°	3375.8	97.2
0°-60°	3469.7	99.9
0°-90°	3473.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3473.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8938	
5°	8012	704
15°	4359	1206
25°	2065	958
35°	802	507
45°	91	87
55°	5	7
65°	5	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8937.5
2.5°	8707.4
5°	8012.2
7.5°	7103.0
10°	6140.2
12.5°	5209.6
15°	4359.1
17.5°	3567.5
20°	2936.3
22.5°	2454.9
25°	2064.6
27.5°	1749.0
30°	1433.5
32.5°	1112.5
35°	802.3
37.5°	529.6
40°	315.6
42.5°	181.9
45°	90.8
47.5°	32.1
50°	10.7
52.5°	10.7
55°	5.4
57.5°	5.4
60°	5.4
62.5°	5.4
65°	5.4
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)