

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: P573590

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-50 F4X-M-X-LI-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205108)
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-90-50 F4X-M-X-LI-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

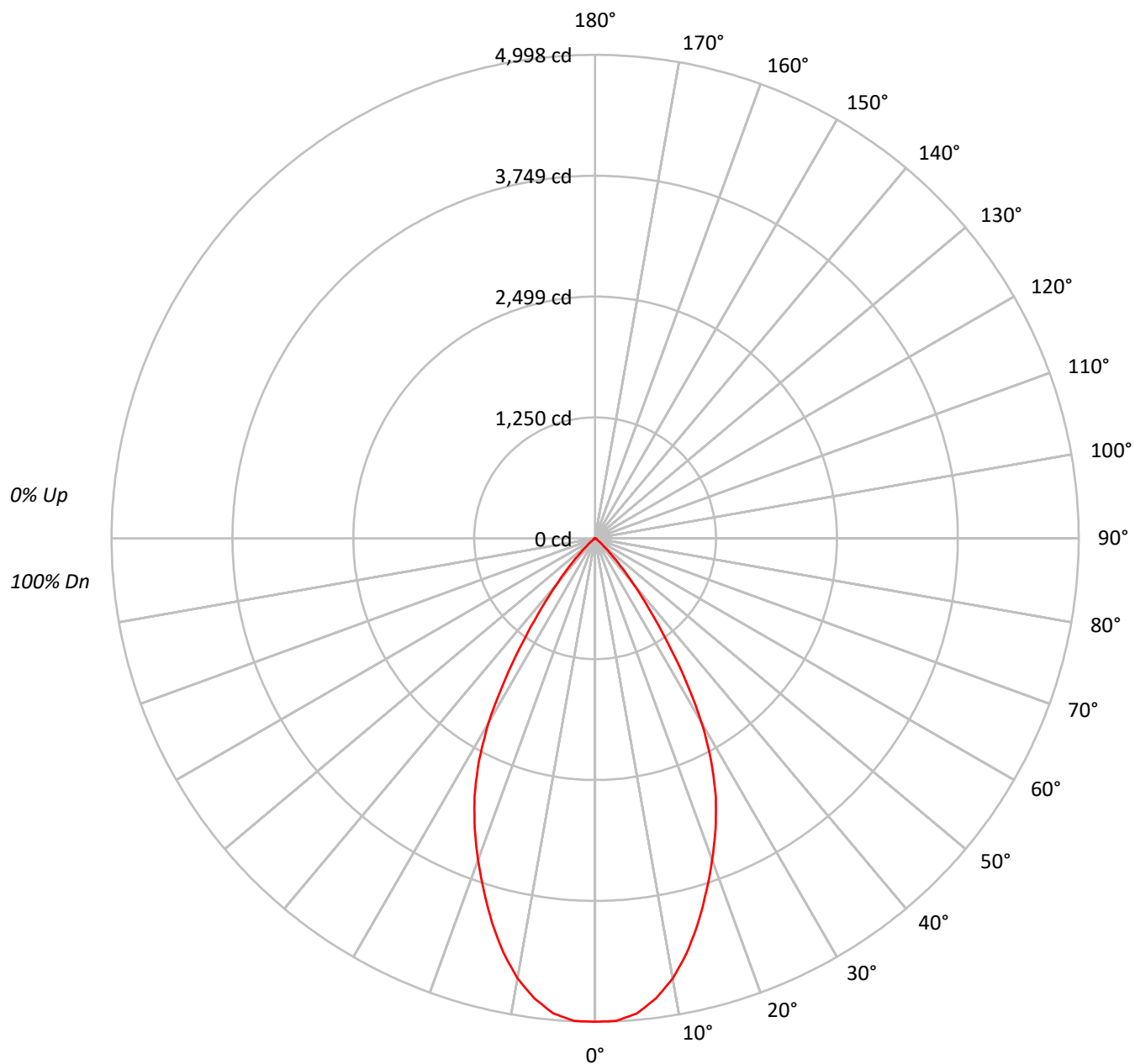
Lumens per Lamp: N/A
Luminaire Lumens: 3993.9 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	114	111	109	106		111	109	107	105		105	103	101			101	100	98			98
2	108	103	100	96		106	102	98	95		99	96	93			96	93	91			93
3	103	97	92	88		101	95	91	87		93	89	86			90	87	85			88
4	98	91	85	81		96	89	84	81		87	83	80			85	82	79			83
5	93	85	79	75		91	84	79	75		82	78	74			81	77	73			79
6	89	80	74	70		87	79	74	70		78	73	69			76	72	69			75
7	84	75	69	65		83	75	69	65		73	68	65			72	68	64			71
8	80	71	65	61		79	70	65	61		69	64	61			68	64	60			67
9	77	67	61	57		75	67	61	57		66	61	57			65	60	57			64
10	73	64	58	54		72	63	58	54		62	57	54			62	57	54			61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	614059
5°	608215
10°	576339
15°	523261
20°	462381
25°	399748
30°	312473
35°	191625
40°	98357
45°	39074
50°	12691
55°	4369
60°	3759
65°	2994
70°	1832
75°	2421
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.5	11.5
10°-20°	1146.4	28.7
20°-30°	1332.6	33.4
30°-40°	816.0	20.4
40°-50°	202.6	5.1
50°-60°	23.7	0.6
60°-70°	8.8	0.2
70°-80°	3.3	0.1
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°	2939.4	73.6
0°-40°	3755.4	94.0
0°-60°	3981.8	99.7
0°-90°	3993.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3993.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4998	
5°	4932	460
15°	4114	1146
25°	2949	1333
35°	1278	816
45°	225	203
55°	20	24
65°	10	9
75°	5	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4998.3
2.5°	4993.1
5°	4931.9
7.5°	4799.0
10°	4620.0
12.5°	4385.0
15°	4114.1
17.5°	3822.8
20°	3536.7
22.5°	3250.4
25°	2949.0
27.5°	2601.4
30°	2202.7
32.5°	1737.6
35°	1277.7
37.5°	899.4
40°	613.3
42.5°	383.2
45°	224.9
47.5°	127.8
50°	66.4
52.5°	30.7
55°	20.4
57.5°	15.3
60°	15.3
62.5°	10.3
65°	10.3
67.5°	5.1
70°	5.1
72.5°	5.1
75°	5.1
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)