

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: P573375

Luminaire Tested: **FLD4C-40-D010 FEU4C-X-90-40 F4X-M-X-LI-BL86**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573375
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-40-D010 FEU4C-X-90-40 F4X-M-X-LI-BL86
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.250" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

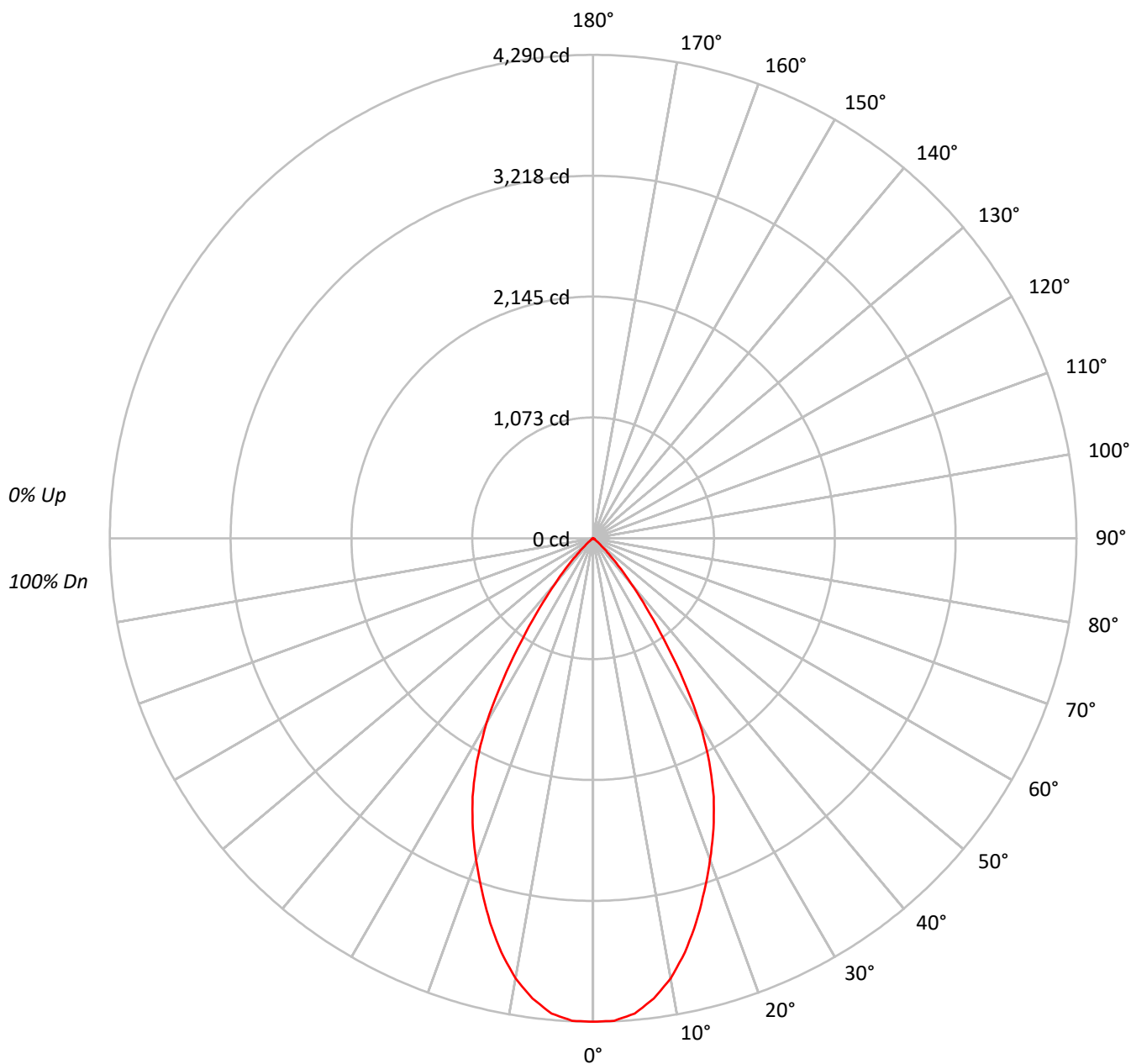
Lumens per Lamp: N/A
Luminaire Lumens: 3428.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	527041
5°	522025
10°	494666
15°	449111
20°	396855
25°	343100
30°	268199
35°	164464
40°	84421
45°	33532
50°	10894
55°	3748
60°	3219
65°	2558
70°	1580
75°	2089
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.2	11.5
10°-20°	983.9	28.7
20°-30°	1143.7	33.4
30°-40°	700.4	20.4
40°-50°	173.9	5.1
50°-60°	20.3	0.6
60°-70°	7.6	0.2
70°-80°	2.9	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°	2522.9	73.6
0°-40°	3223.3	94.0
0°-60°	3417.5	99.7
0°-90°	3428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3428.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4290	
5°	4233	395
15°	3531	984
25°	2531	1144
35°	1097	700
45°	193	174
55°	18	20
65°	9	8
75°	4	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4290.0
2.5°	4285.6
5°	4233.0
7.5°	4118.9
10°	3965.3
12.5°	3763.6
15°	3531.1
17.5°	3281.1
20°	3035.5
22.5°	2789.7
25°	2531.1
27.5°	2232.7
30°	1890.6
32.5°	1491.4
35°	1096.6
37.5°	772.0
40°	526.4
42.5°	328.9
45°	193.0
47.5°	109.7
50°	57.0
52.5°	26.4
55°	17.5
57.5°	13.1
60°	13.1
62.5°	8.8
65°	8.8
67.5°	4.4
70°	4.4
72.5°	4.4
75°	4.4
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)