

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: P572198

Luminaire Tested: **FLD4C-10-D010 FEU4C-X-90-27 F4X-N-X-LI-BL85**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572198
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-10-D010 FEU4C-X-90-27 F4X-N-X-LI-BL85
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNI TRIM
AND BOTTOM LENS, 0.187" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

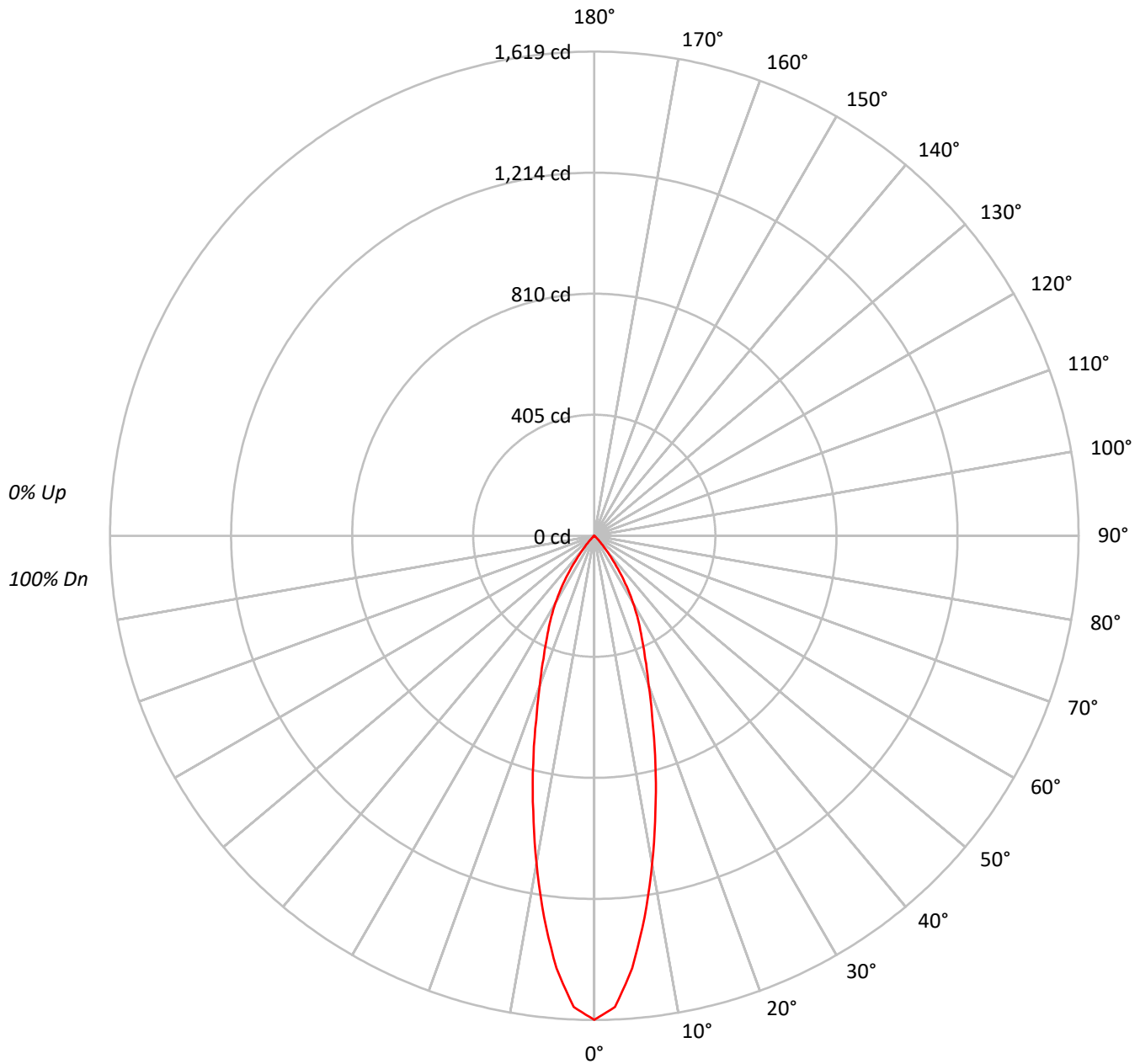
Lumens per Lamp: N/A
Luminaire Lumens: 629.0 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.54
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.75
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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	112	110	108		112	110	108	106		106	104	103		102	101	100		99	98	97
2	109	105	102	99		107	103	100	98		100	98	95		97	95	93		95	93	92
3	105	99	95	92		103	98	94	91		95	92	89		93	90	88		91	89	87
4	101	94	89	86		99	93	88	85		91	87	84		89	86	83		87	84	82
5	96	89	84	80		95	88	84	80		87	82	79		85	81	79		83	80	78
6	92	85	80	76		91	84	79	76		83	78	75		81	78	75		80	77	74
7	89	81	76	72		88	80	75	72		79	75	71		78	74	71		77	73	71
8	85	77	72	68		84	77	72	68		76	71	68		75	71	68		74	70	67
9	82	74	69	65		81	73	68	65		72	68	65		72	68	65		71	67	64
10	79	71	66	62		78	70	65	62		69	65	62		69	65	62		68	64	62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	198863
5°	178954
10°	138733
15°	100414
20°	69526
25°	50684
30°	36827
35°	21792
40°	9173
45°	2849
50°	363
55°	214
60°	246
65°	291
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	20.3
10°-20°	218.4	34.7
20°-30°	173.6	27.6
30°-40°	91.9	14.6
40°-50°	15.8	2.5
50°-60°	1.2	0.2
60°-70°	0.6	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°	519.5	82.6
0°-40°	611.4	97.2
0°-60°	628.4	99.9
0°-90°	629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	629.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1619	
5°	1451	128
15°	790	218
25°	374	174
35°	145	92
45°	16	16
55°	1	1
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1618.7
2.5°	1577.0
5°	1451.1
7.5°	1286.4
10°	1112.1
12.5°	943.5
15°	789.5
17.5°	646.1
20°	531.8
22.5°	444.6
25°	373.9
27.5°	316.8
30°	259.6
32.5°	201.5
35°	145.3
37.5°	95.9
40°	57.2
42.5°	32.9
45°	16.4
47.5°	5.8
50°	1.9
52.5°	1.9
55°	1.0
57.5°	1.0
60°	1.0
62.5°	1.0
65°	1.0
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)