

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: P572965

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-30 F4X-W-X-LI-BL84**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208077)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-30-D010 FEU4C-X-90-30 F4X-W-X-LI-BL84
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.125" CLEAR POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

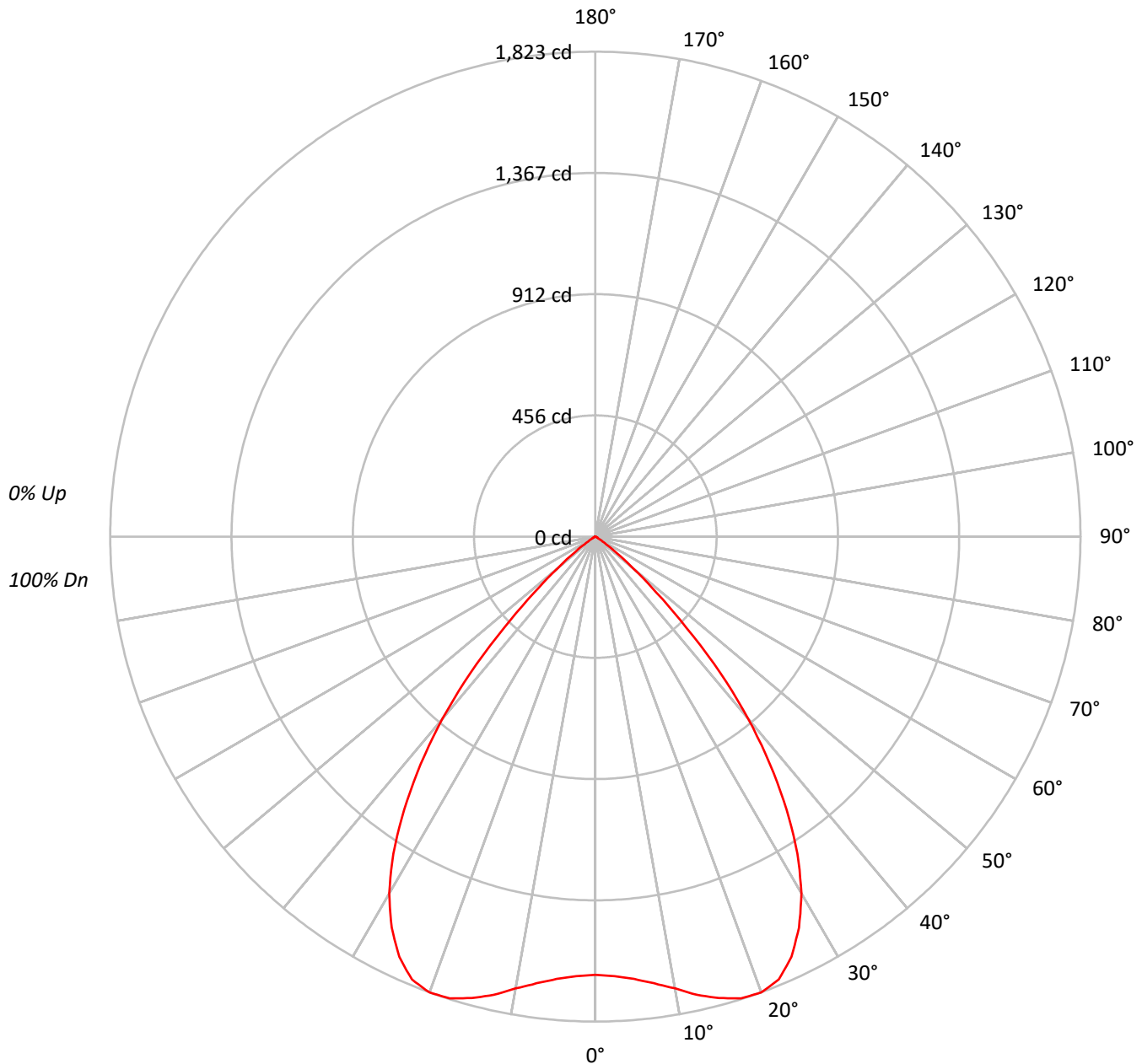
Lumens per Lamp: N/A
Luminaire Lumens: 2689.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	113	110	107	105		110	108	105	103		104	102	100			100	98	97			96
2	106	101	97	93		104	99	95	92		96	93	90			93	90	88			90
3	100	93	87	83		98	92	86	82		89	85	81			86	83	80			84
4	94	86	79	75		92	84	79	74		82	77	73			80	76	72			78
5	88	79	72	68		87	78	72	67		76	71	67			74	70	66			73
6	83	73	66	62		82	72	66	61		71	65	61			69	64	60			68
7	78	68	61	56		77	67	61	56		66	60	56			64	59	55			63
8	74	63	56	52		72	62	56	51		61	55	51			60	55	51			59
9	69	59	52	48		68	58	52	47		57	51	47			56	51	47			55
10	66	55	48	44		65	54	48	44		53	48	44			53	47	44			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	202401
5°	205838
10°	215142
15°	228352
20°	238361
25°	236284
30°	219740
35°	187980
40°	143230
45°	84004
50°	35893
55°	10559
60°	3022
65°	1802
70°	1114
75°	1471
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	6.0
10°-20°	508.5	18.9
20°-30°	793.2	29.5
30°-40°	771.8	28.7
40°-50°	385.5	14.3
50°-60°	59.7	2.2
60°-70°	7.2	0.3
70°-80°	2.0	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°	1462.8	54.4
0°-40°	2234.6	83.1
0°-60°	2679.7	99.7
0°-90°	2689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2689.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1648	
5°	1669	161
15°	1795	508
25°	1743	793
35°	1253	772
45°	484	385
55°	49	60
65°	6	7
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1647.5
2.5°	1653.7
5°	1669.1
7.5°	1693.8
10°	1724.6
12.5°	1764.6
15°	1795.4
17.5°	1820.1
20°	1823.2
22.5°	1801.6
25°	1743.1
27.5°	1656.8
30°	1549.0
32.5°	1413.6
35°	1253.4
37.5°	1077.8
40°	893.1
42.5°	696.0
45°	483.5
47.5°	311.0
50°	187.8
52.5°	101.6
55°	49.3
57.5°	21.6
60°	12.3
62.5°	9.3
65°	6.2
67.5°	6.2
70°	3.1
72.5°	3.1
75°	3.1
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)