

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: P572729

Luminaire Tested: **FLD4C-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572729
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-25-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

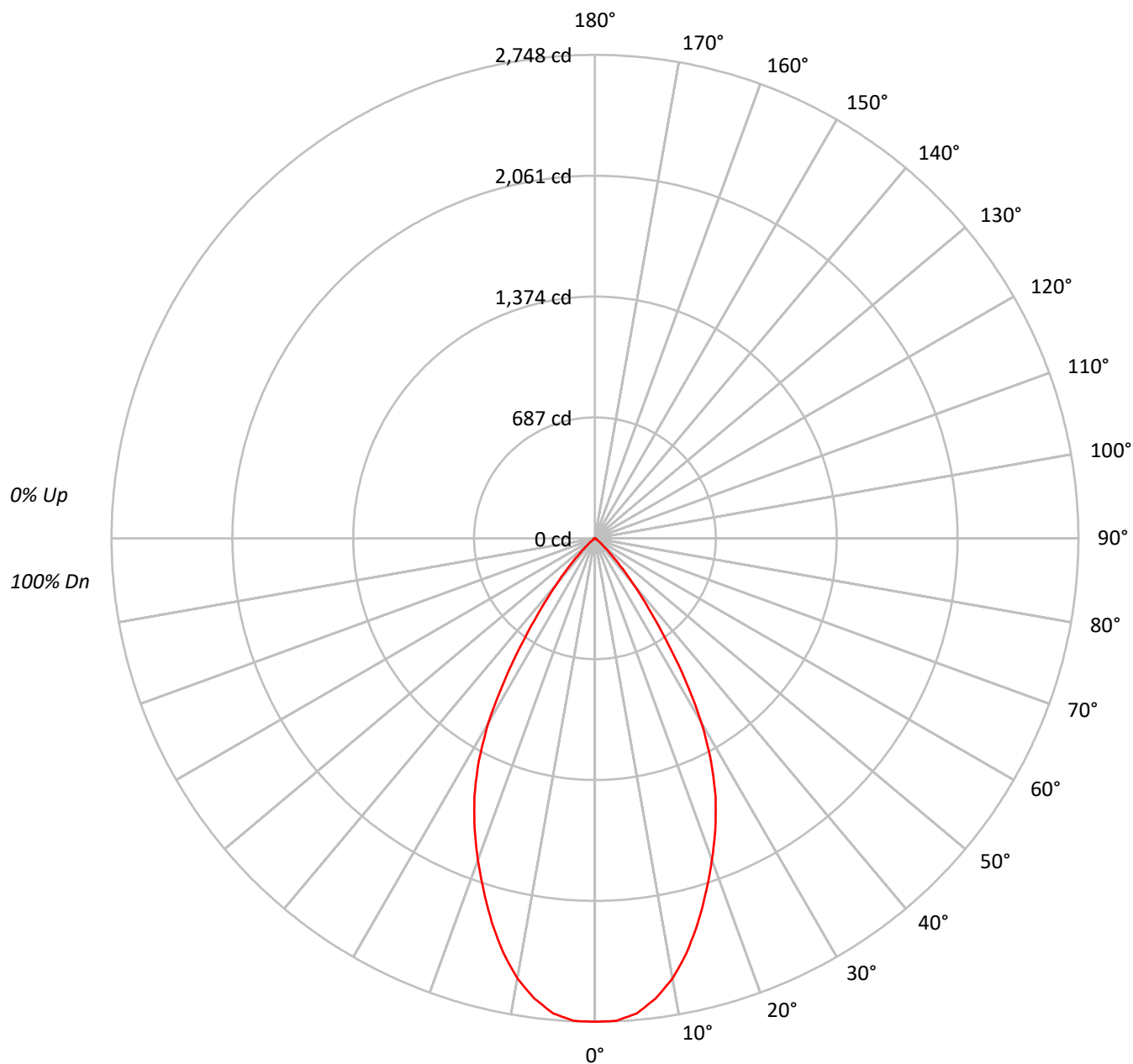
Lumens per Lamp: N/A
Luminaire Lumens: 2196.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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	111	109	106		111	109	107	105		105	103	101		101	100	98		98	97	96
2	108	103	100	96		106	102	98	95		99	96	93		96	93	91		93	91	89
3	103	97	92	88		101	95	91	87		93	89	86		90	87	85		88	85	83
4	98	91	85	81		96	89	84	81		87	83	80		85	82	79		83	80	78
5	93	85	79	75		91	84	79	75		82	78	74		81	77	73		79	76	73
6	89	80	74	70		87	79	74	70		78	73	69		76	72	69		75	71	68
7	84	75	69	65		83	75	69	65		73	68	65		72	68	64		71	67	64
8	80	71	65	61		79	70	65	61		69	64	61		68	64	60		67	63	60
9	77	67	61	57		75	67	61	57		66	61	57		65	60	57		64	60	57
10	73	64	58	54		72	63	58	54		62	57	54		62	57	54		61	57	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	337626
5°	334414
10°	316887
15°	287698
20°	254233
25°	219787
30°	171805
35°	105358
40°	54078
45°	21492
50°	6976
55°	2399
60°	2064
65°	1657
70°	1006
75°	1329
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.2	11.5
10°-20°	630.3	28.7
20°-30°	732.7	33.4
30°-40°	448.7	20.4
40°-50°	111.4	5.1
50°-60°	13.0	0.6
60°-70°	4.9	0.2
70°-80°	1.8	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°	1616.2	73.6
0°-40°	2064.8	94.0
0°-60°	2189.3	99.7
0°-90°	2196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2196.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2748	
5°	2712	253
15°	2262	630
25°	1621	733
35°	702	449
45°	124	111
55°	11	13
65°	6	5
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2748.2
2.5°	2745.4
5°	2711.7
7.5°	2638.6
10°	2540.2
12.5°	2411.0
15°	2262.0
17.5°	2101.9
20°	1944.6
22.5°	1787.1
25°	1621.4
27.5°	1430.3
30°	1211.1
32.5°	955.4
35°	702.5
37.5°	494.5
40°	337.2
42.5°	210.7
45°	123.7
47.5°	70.3
50°	36.5
52.5°	16.9
55°	11.2
57.5°	8.4
60°	8.4
62.5°	5.7
65°	5.7
67.5°	2.8
70°	2.8
72.5°	2.8
75°	2.8
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)