

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: P573736

Luminaire Tested: **FLD4C-50-D010 FEU4C-X-90-40 F4X-M-X-LI-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573736
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-50-D010 FEU4C-X-90-40 F4X-M-X-LI-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

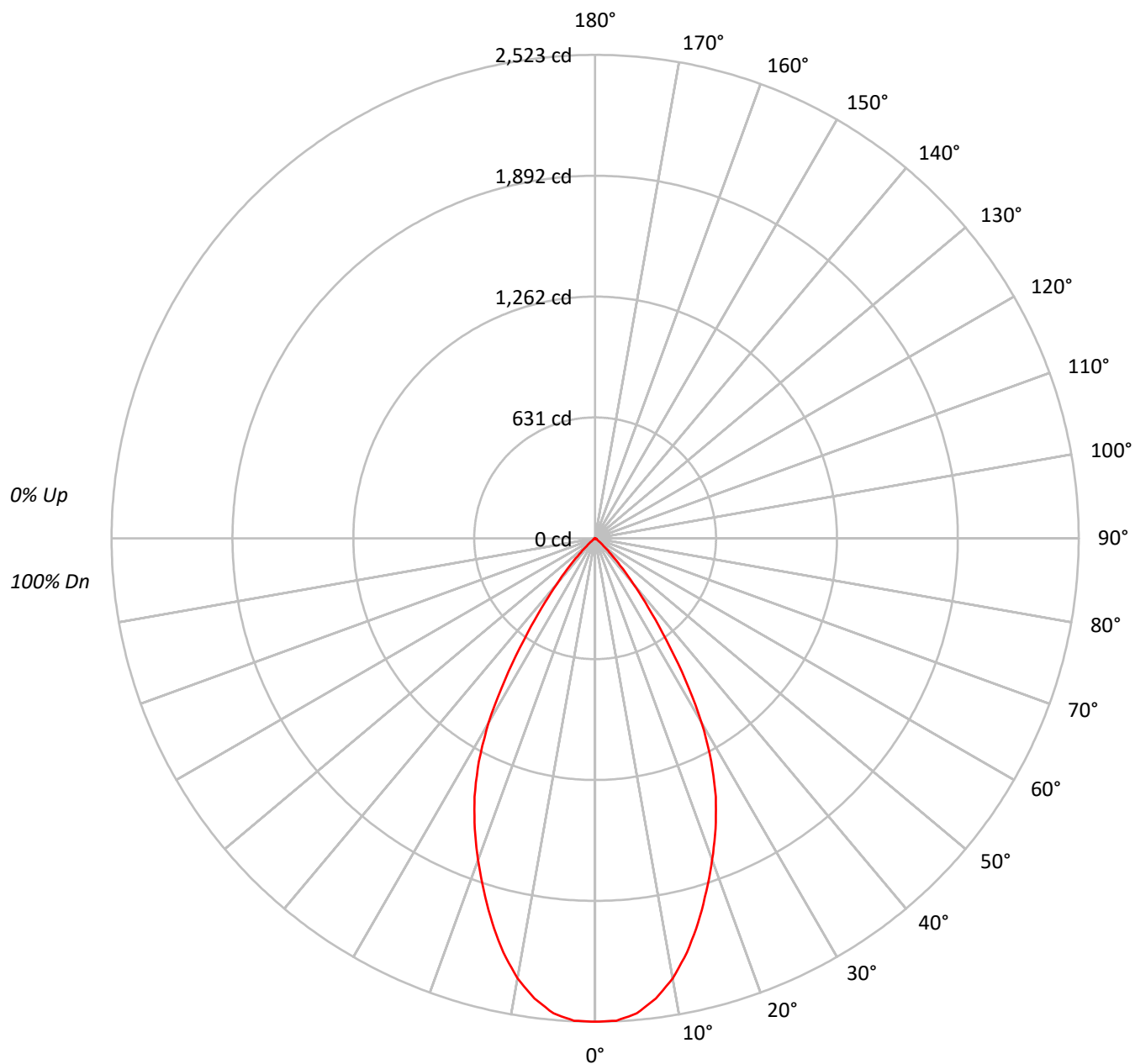
Lumens per Lamp: N/A
Luminaire Lumens: 2016.0 lumens
Efficiency: N/A
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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°	309947
5°	307000
10°	290914
15°	264117
20°	233393
25°	201772
30°	157719
35°	96720
40°	49652
45°	19720
50°	6403
55°	2206
60°	1892
65°	1512
70°	934
75°	1234
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	11.5
10°-20°	578.6	28.7
20°-30°	672.6	33.4
30°-40°	411.9	20.4
40°-50°	102.3	5.1
50°-60°	11.9	0.6
60°-70°	4.5	0.2
70°-80°	1.7	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°	1483.7	73.6
0°-40°	1895.6	94.0
0°-60°	2009.8	99.7
0°-90°	2016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2016.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2523	
5°	2489	232
15°	2077	579
25°	1488	673
35°	645	412
45°	114	102
55°	10	12
65°	5	4
75°	3	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2522.9
2.5°	2520.3
5°	2489.4
7.5°	2422.3
10°	2332.0
12.5°	2213.4
15°	2076.6
17.5°	1929.6
20°	1785.2
22.5°	1640.6
25°	1488.5
27.5°	1313.1
30°	1111.8
32.5°	877.1
35°	644.9
37.5°	454.0
40°	309.6
42.5°	193.4
45°	113.5
47.5°	64.5
50°	33.5
52.5°	15.5
55°	10.3
57.5°	7.7
60°	7.7
62.5°	5.2
65°	5.2
67.5°	2.6
70°	2.6
72.5°	2.6
75°	2.6
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)