

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: P573485

Luminaire Tested: **FLD4C-45-D010 FEU4C-X-90-30 F4X-M-X-LI-BL89BV**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573485
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-45-D010 FEU4C-X-90-30 F4X-M-X-LI-BL89BV
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.125" CLEAR ACRYLIC

Light Source: -
Ballast/Driver: -

Summary

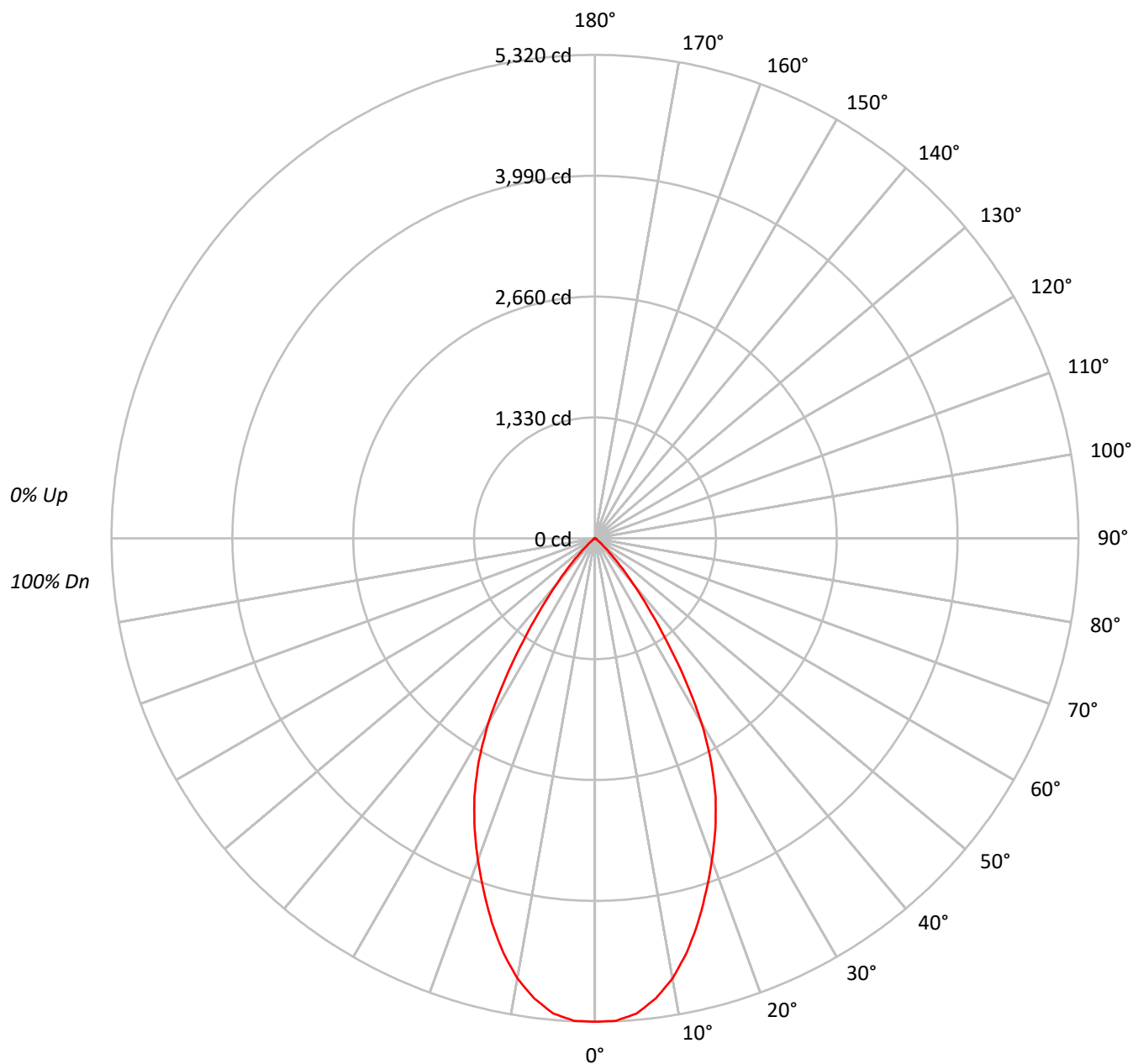
Lumens per Lamp: N/A
Luminaire Lumens: 4251.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	114	111	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94						
2	108	103	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88						
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	85	83	82						
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76						
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71						
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67						
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63						
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59						
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55						
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	653568
5°	647358
10°	613427
15°	556940
20°	492137
25°	425463
30°	332574
35°	203953
40°	104692
45°	41594
50°	13513
55°	4648
60°	3980
65°	3198
70°	1976
75°	2611
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.1	11.5
10°-20°	1220.1	28.7
20°-30°	1418.3	33.4
30°-40°	868.5	20.4
40°-50°	215.7	5.1
50°-60°	25.2	0.6
60°-70°	9.4	0.2
70°-80°	3.6	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°	3128.6	73.6
0°-40°	3997.1	94.0
0°-60°	4238.0	99.7
0°-90°	4251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4251.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5320	
5°	5249	490
15°	4379	1220
25°	3139	1418
35°	1360	869
45°	239	216
55°	22	25
65°	11	9
75°	6	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5319.9
2.5°	5314.4
5°	5249.3
7.5°	5107.7
10°	4917.3
12.5°	4667.2
15°	4378.9
17.5°	4068.8
20°	3764.3
22.5°	3459.5
25°	3138.7
27.5°	2768.8
30°	2344.4
32.5°	1849.4
35°	1359.9
37.5°	957.3
40°	652.8
42.5°	407.9
45°	239.4
47.5°	136.0
50°	70.7
52.5°	32.7
55°	21.7
57.5°	16.2
60°	16.2
62.5°	11.0
65°	11.0
67.5°	5.5
70°	5.5
72.5°	5.5
75°	5.5
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)