

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: P573436

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573436
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-40-D010 FEU4C-X-90-50 F4X-W-X-LI-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 4LBWLI TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

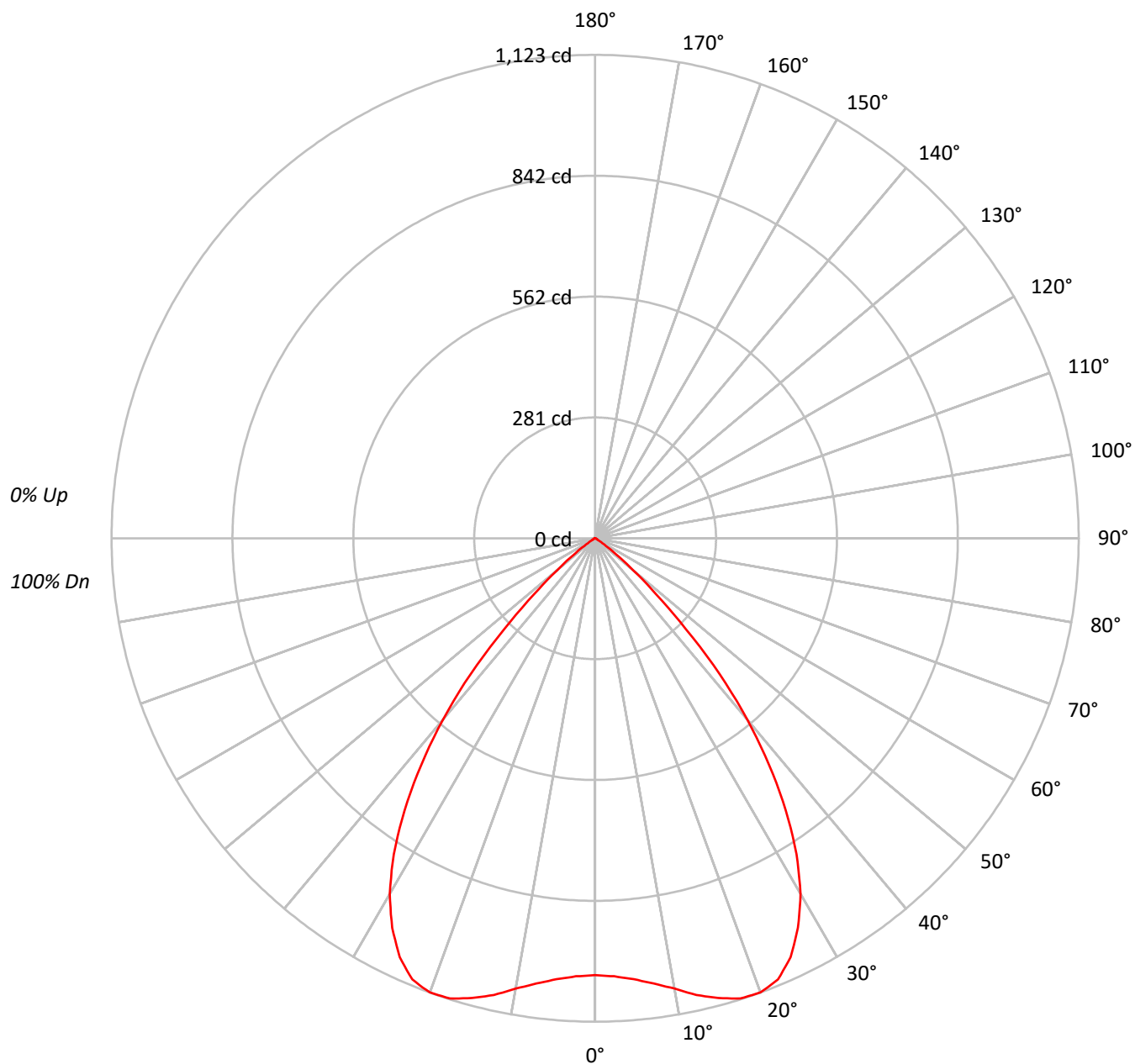
Lumens per Lamp: N/A
Luminaire Lumens: 1656.0 lumens
Efficiency: N/A
Efficacy: 35.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

TEST NUMBER: P573436

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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92						
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84						
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77						
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	72	70						
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64						
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58						
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54						
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49						
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45						
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124647
5°	126763
10°	132496
15°	140631
20°	146793
25°	145517
30°	135319
35°	115767
40°	88206
45°	51740
50°	22113
55°	6511
60°	1867
65°	1105
70°	682
75°	902
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	6.0
10°-20°	313.1	18.9
20°-30°	488.5	29.5
30°-40°	475.3	28.7
40°-50°	237.4	14.3
50°-60°	36.8	2.2
60°-70°	4.4	0.3
70°-80°	1.2	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°	900.9	54.4
0°-40°	1376.2	83.1
0°-60°	1650.3	99.7
0°-90°	1656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1656.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1015	
5°	1028	99
15°	1106	313
25°	1074	488
35°	772	475
45°	298	237
55°	30	37
65°	4	4
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1014.6
2.5°	1018.4
5°	1027.9
7.5°	1043.1
10°	1062.1
12.5°	1086.7
15°	1105.7
17.5°	1120.9
20°	1122.8
22.5°	1109.5
25°	1073.5
27.5°	1020.3
30°	953.9
32.5°	870.6
35°	771.9
37.5°	663.8
40°	550.0
42.5°	428.6
45°	297.8
47.5°	191.5
50°	115.7
52.5°	62.6
55°	30.4
57.5°	13.3
60°	7.6
62.5°	5.7
65°	3.8
67.5°	3.8
70°	1.9
72.5°	1.9
75°	1.9
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)