

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: P573088

Luminaire Tested: **FLD4C-35-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573088
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-35-D010 FEU4C-X-90-27 F4X-M-X-LI-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMLI TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

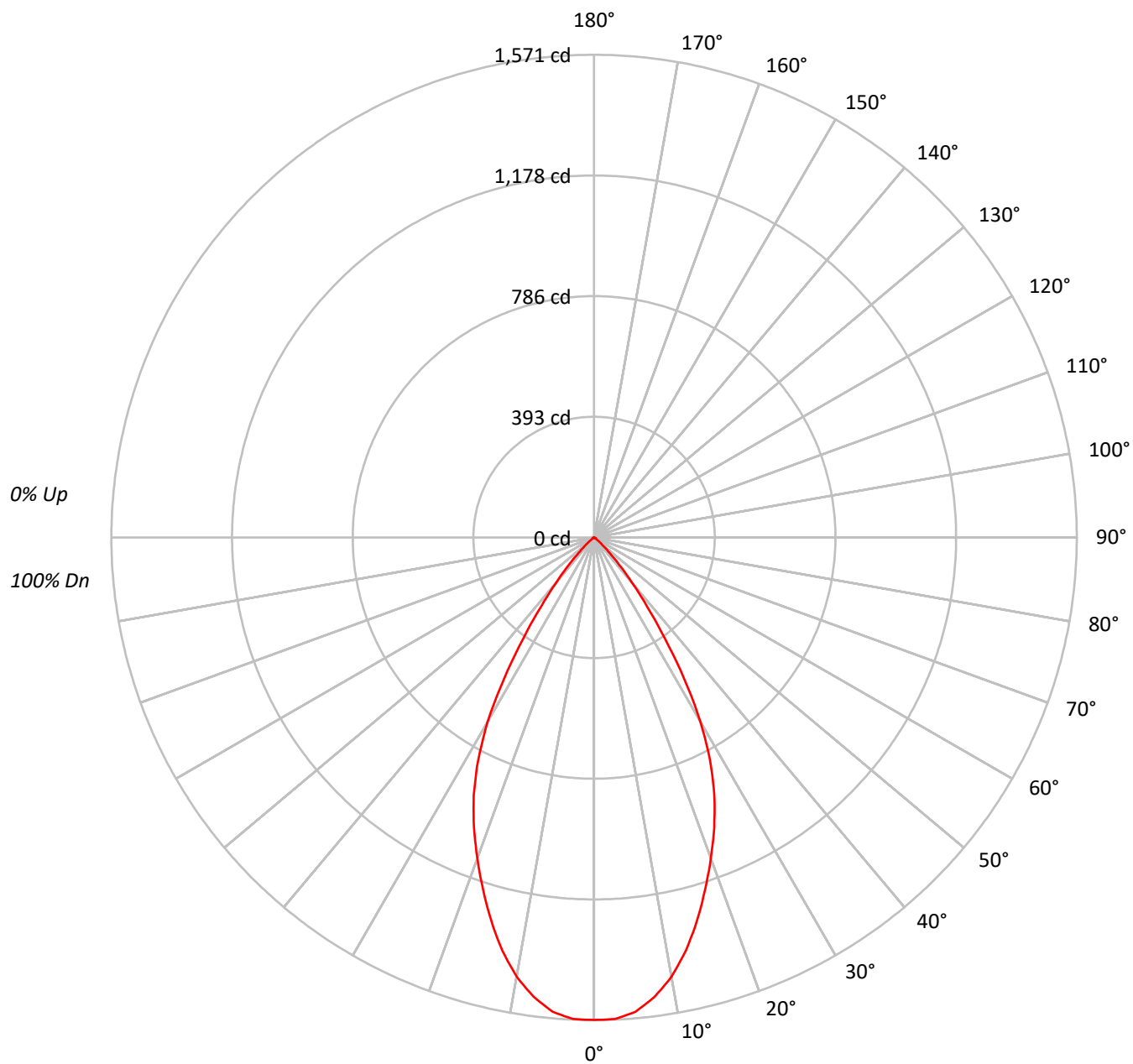
Lumens per Lamp: N/A
Luminaire Lumens: 1254.9 lumens
Efficiency: N/A
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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				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°	192954
5°	191113
10°	181098
15°	164415
20°	145289
25°	125604
30°	98181
35°	60216
40°	30904
45°	12283
50°	3995
55°	1371
60°	1179
65°	930
70°	575
75°	759
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	11.5
10°-20°	360.2	28.7
20°-30°	418.7	33.4
30°-40°	256.4	20.4
40°-50°	63.7	5.1
50°-60°	7.4	0.6
60°-70°	2.8	0.2
70°-80°	1.0	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°	923.6	73.6
0°-40°	1180.0	94.0
0°-60°	1251.1	99.7
0°-90°	1254.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1254.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1571	
5°	1550	145
15°	1293	360
25°	927	419
35°	402	256
45°	71	64
55°	6	7
65°	3	3
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1570.6
2.5°	1569.0
5°	1549.7
7.5°	1507.9
10°	1451.7
12.5°	1377.9
15°	1292.7
17.5°	1201.2
20°	1111.3
22.5°	1021.3
25°	926.6
27.5°	817.4
30°	692.1
32.5°	546.0
35°	401.5
37.5°	282.6
40°	192.7
42.5°	120.4
45°	70.7
47.5°	40.2
50°	20.9
52.5°	9.6
55°	6.4
57.5°	4.8
60°	4.8
62.5°	3.2
65°	3.2
67.5°	1.6
70°	1.6
72.5°	1.6
75°	1.6
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)