

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: P572938

Luminaire Tested: **FLD4C-30-D010 FEU4C-X-90-30 F4X-M-X-H-BL89AM**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207151)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-30-D010 FEU4C-X-90-30 F4X-M-X-H-BL89AM
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 4LBMH TRIM
AND BOTTOM LENS, 0.125" OPAL POLYCARBONATE

Light Source: -
Ballast/Driver: -

Summary

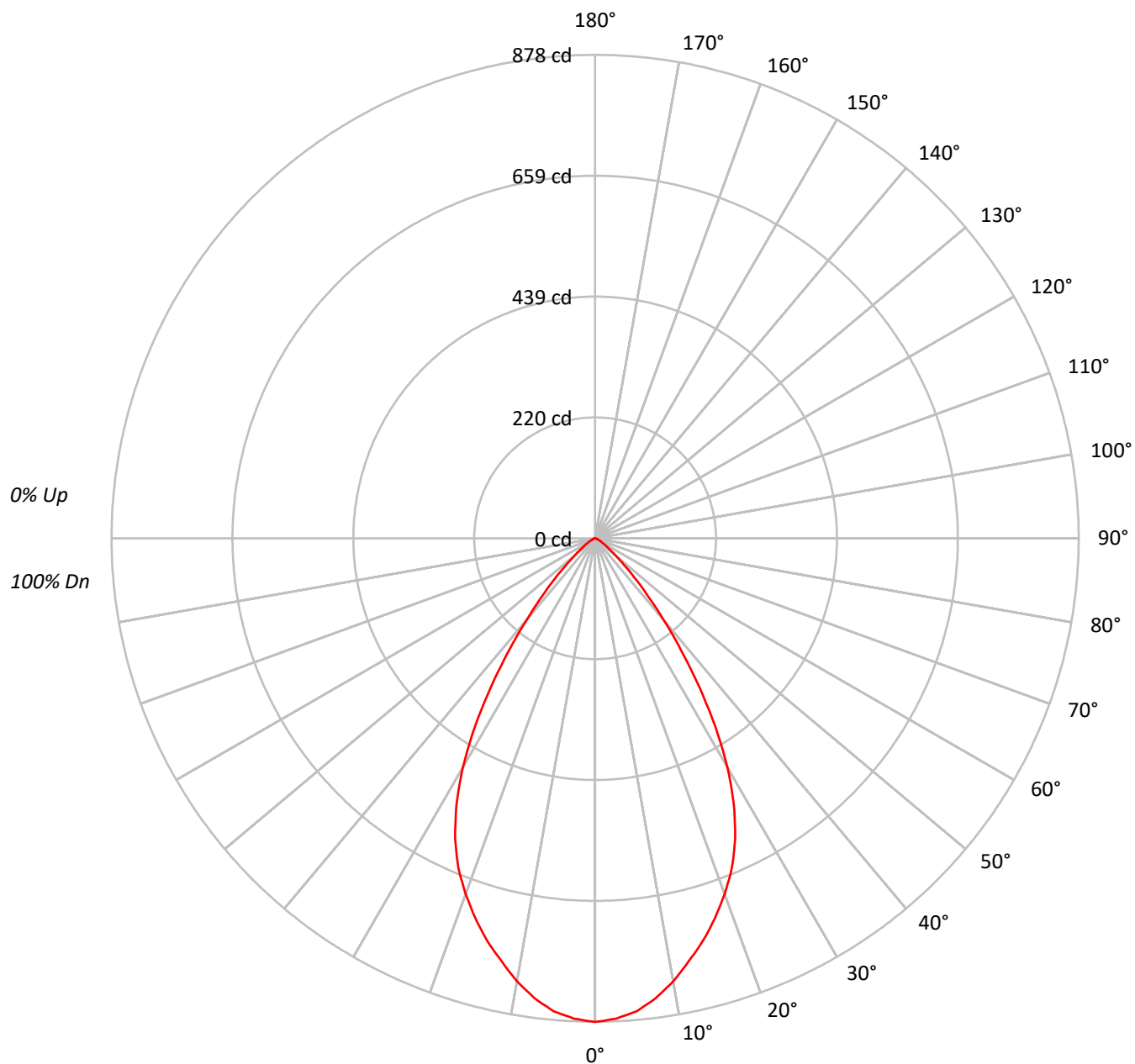
Lumens per Lamp: N/A
Luminaire Lumens: 886.0 lumens
Efficiency: N/A
Efficacy: 28.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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
RW	70	50	30	10		70	50	30	10		50	30	10			50	30	10			50
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111			106	106	106			102
1	113	110	108	105		111	108	106	104		104	102	100			100	99	97			97
2	107	102	98	94		105	100	96	93		97	94	91			94	91	89			91
3	101	94	89	85		99	93	88	84		90	86	83			88	84	82			86
4	96	88	82	77		94	86	81	77		84	80	76			82	78	75			80
5	90	82	75	71		89	81	75	70		79	74	70			77	73	69			75
6	86	76	70	65		84	75	69	65		74	68	64			72	68	64			71
7	81	71	65	60		80	70	64	60		69	64	60			68	63	59			67
8	77	67	60	56		75	66	60	56		65	59	56			64	59	55			63
9	73	63	56	52		72	62	56	52		61	56	52			60	55	52			59
10	69	59	53	49		68	59	53	49		58	52	49			57	52	48			56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107927
5°	106366
10°	101920
15°	96268
20°	89856
25°	81563
30°	68106
35°	49342
40°	30888
45°	17652
50°	9212
55°	5162
60°	3292
65°	1948
70°	1437
75°	617
80°	920
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	9.1
10°-20°	212.1	23.9
20°-30°	272.6	30.8
30°-40°	205.1	23.1
40°-50°	82.4	9.3
50°-60°	23.4	2.6
60°-70°	7.4	0.8
70°-80°	2.1	0.2
80°-90°	0.2	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°	565.5	63.8
0°-40°	770.5	87.0
0°-60°	876.3	98.9
0°-90°	886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	886.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	878	
5°	862	81
15°	757	212
25°	602	273
35°	329	205
45°	102	82
55°	24	23
65°	7	7
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	878.5
2.5°	873.2
5°	862.5
7.5°	842.4
10°	817.0
12.5°	786.3
15°	756.9
17.5°	723.4
20°	687.3
22.5°	648.6
25°	601.7
27.5°	545.6
30°	480.1
32.5°	406.5
35°	329.0
37.5°	256.7
40°	192.6
42.5°	141.7
45°	101.6
47.5°	69.6
50°	48.2
52.5°	33.4
55°	24.1
57.5°	17.4
60°	13.4
62.5°	9.4
65°	6.7
67.5°	5.4
70°	4.0
72.5°	2.7
75°	1.3
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)