

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: P573084

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P573084
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-35-D010 FEU4C-X-90-27 F4X-M-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

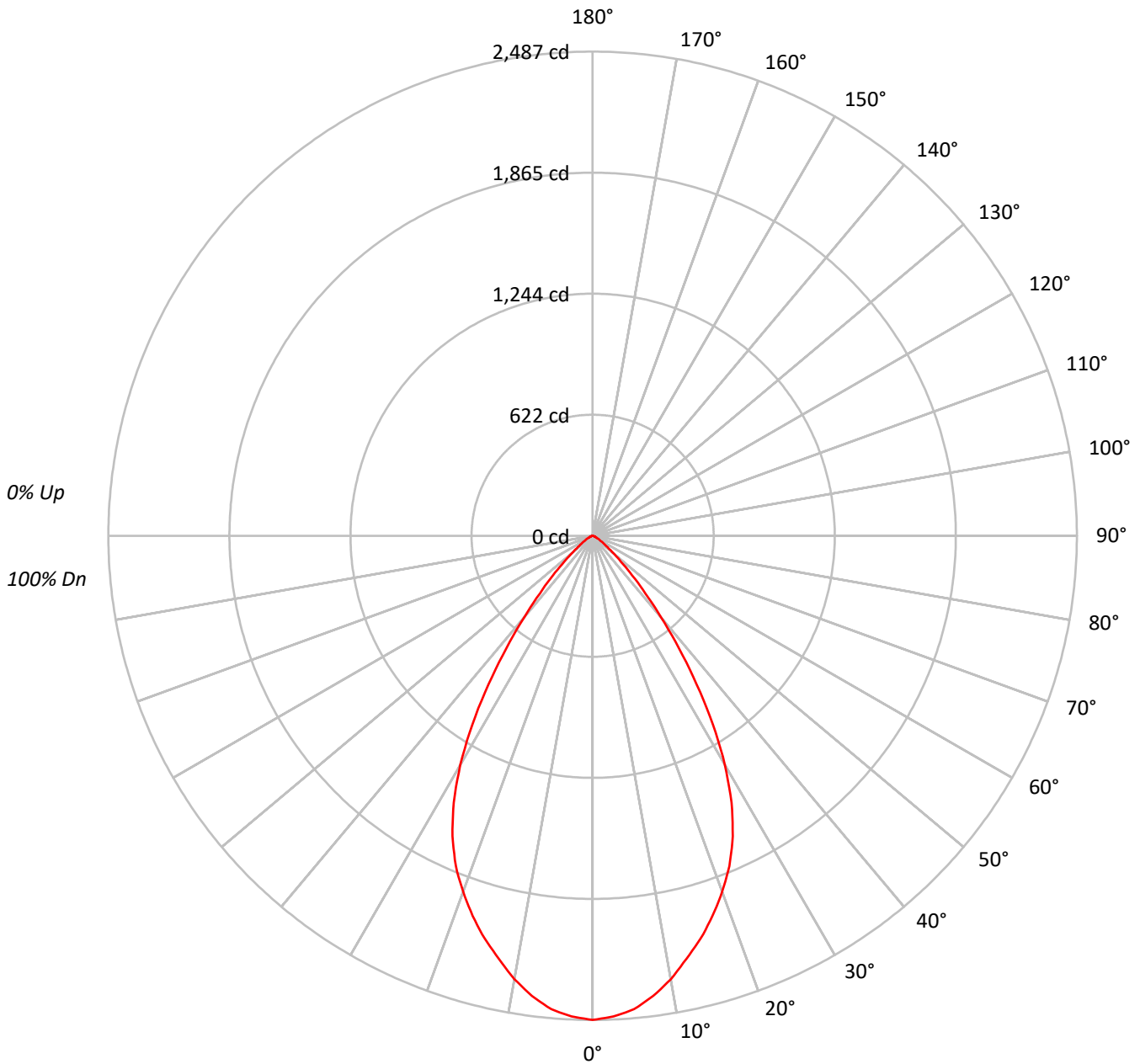
Lumens per Lamp: N/A
Luminaire Lumens: 2508.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.93
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
Input Voltage (V): NR
Input Current (A_{in}): 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				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				100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79				79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73				73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67				67
6	86	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62				62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58				58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54				54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50				50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47				47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	305512
5°	301080
10°	288494
15°	272486
20°	254351
25°	230889
30°	192772
35°	139658
40°	87420
45°	49968
50°	26050
55°	14608
60°	9312
65°	5494
70°	4095
75°	1804
80°	2688
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	9.1
10°-20°	600.3	23.9
20°-30°	771.5	30.8
30°-40°	580.5	23.1
40°-50°	233.1	9.3
50°-60°	66.3	2.6
60°-70°	21.0	0.8
70°-80°	6.0	0.2
80°-90°	0.5	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°	1600.7	63.8
0°-40°	2181.1	87.0
0°-60°	2480.5	98.9
0°-90°	2508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2508.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2487	
5°	2441	229
15°	2142	600
25°	1703	772
35°	931	580
45°	288	233
55°	68	66
65°	19	21
75°	4	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2486.8
2.5°	2471.7
5°	2441.4
7.5°	2384.6
10°	2312.6
12.5°	2225.7
15°	2142.4
17.5°	2047.8
20°	1945.5
22.5°	1835.9
25°	1703.3
27.5°	1544.3
30°	1358.9
32.5°	1150.6
35°	931.2
37.5°	726.7
40°	545.1
42.5°	401.2
45°	287.6
47.5°	196.9
50°	136.3
52.5°	94.7
55°	68.2
57.5°	49.2
60°	37.9
62.5°	26.5
65°	18.9
67.5°	15.1
70°	11.4
72.5°	7.6
75°	3.8
77.5°	3.8
80°	3.8
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)