

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: P572376

Luminaire Tested: **FLD4C-15-D010 FEU4C-X-90-27 F4X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P207666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-15-D010 FEU4C-X-90-27 F4X-N-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

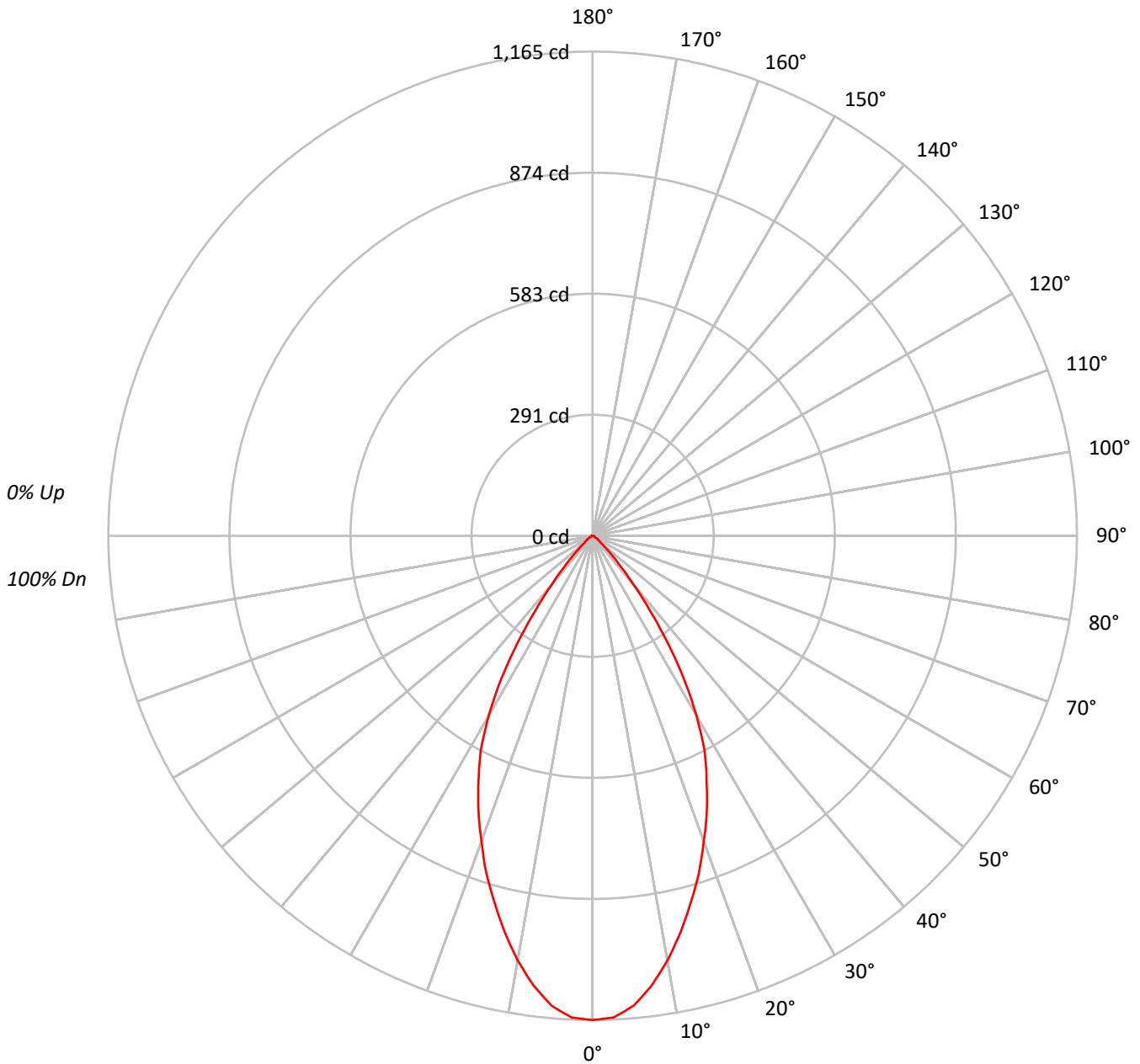
Lumens per Lamp: N/A
Luminaire Lumens: 928.0 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	76	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	74	65	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	143137
5°	139959
10°	129402
15°	116109
20°	102211
25°	87961
30°	70830
35°	47153
40°	24537
45°	11102
50°	4816
55°	3234
60°	2064
65°	1483
70°	1221
75°	807
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	11.3
10°-20°	255.0	27.5
20°-30°	296.0	31.9
30°-40°	196.0	21.1
40°-50°	55.0	5.9
50°-60°	13.8	1.5
60°-70°	5.2	0.6
70°-80°	1.8	0.2
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°	656.2	70.7
0°-40°	852.2	91.8
0°-60°	921.0	99.2
0°-90°	928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	928.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1165	
5°	1135	105
15°	913	255
25°	649	296
35°	314	196
45°	64	55
55°	15	14
65°	5	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1165.1
2.5°	1160.1
5°	1134.9
7.5°	1091.1
10°	1037.3
12.5°	976.8
15°	912.9
17.5°	850.7
20°	781.8
22.5°	717.9
25°	648.9
27.5°	583.4
30°	499.3
32.5°	410.2
35°	314.4
37.5°	225.3
40°	153.0
42.5°	99.2
45°	63.9
47.5°	38.7
50°	25.2
52.5°	18.5
55°	15.1
57.5°	11.8
60°	8.4
62.5°	6.7
65°	5.1
67.5°	3.4
70°	3.4
72.5°	1.7
75°	1.7
77.5°	1.7
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)