

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: P572676

Luminaire Tested: **FLD4C-20-D010 FEU4C-X-90-40 F4X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P572676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD4C-20-D010 FEU4C-X-90-40 F4X-W-X-H
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

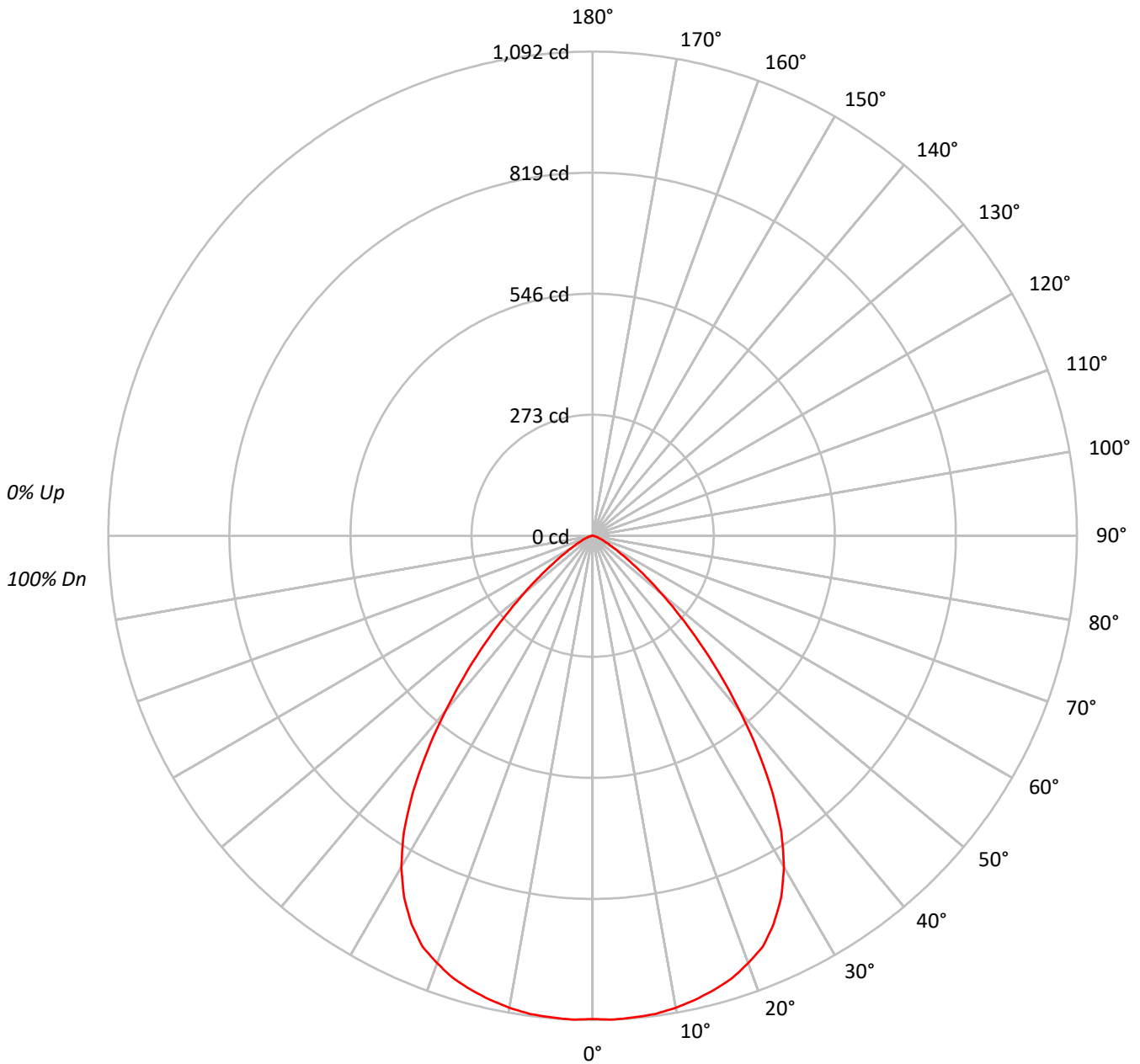
Lumens per Lamp: N/A
Luminaire Lumens: 1691.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.13
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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				
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61			
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55			
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50			
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43			
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	133910
5°	134422
10°	134828
15°	134831
20°	134085
25°	130945
30°	122396
35°	105988
40°	82801
45°	59402
50°	38588
55°	23090
60°	13514
65°	8692
70°	5783
75°	4367
80°	3254
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	6.1
10°-20°	299.1	17.7
20°-30°	441.3	26.1
30°-40°	435.5	25.8
40°-50°	266.5	15.8
50°-60°	102.2	6.0
60°-70°	32.0	1.9
70°-80°	9.4	0.6
80°-90°	1.2	0.1
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°	844.2	49.9
0°-40°	1279.7	75.7
0°-60°	1648.4	97.5
0°-90°	1691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1691.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1090	
5°	1090	104
15°	1060	299
25°	966	441
35°	707	436
45°	342	267
55°	108	102
65°	30	32
75°	9	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1090.0
2.5°	1092.2
5°	1090.0
7.5°	1087.7
10°	1080.8
12.5°	1071.6
15°	1060.1
17.5°	1046.3
20°	1025.6
22.5°	1002.8
25°	966.0
27.5°	920.1
30°	862.8
32.5°	791.7
35°	706.7
37.5°	612.6
40°	516.3
42.5°	426.8
45°	341.9
47.5°	266.1
50°	201.9
52.5°	149.2
55°	107.8
57.5°	75.7
60°	55.0
62.5°	41.3
65°	29.9
67.5°	23.0
70°	16.1
72.5°	11.5
75°	9.2
77.5°	4.6
80°	4.6
82.5°	2.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)