

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: PORTFOLIO

Report Number: P839422

Luminaire Tested: **LD4C90D010 EU4909035 4LBPSMW**

Issue Date: 6/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P839422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C90D010 EU4909035 4LBPSMW  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

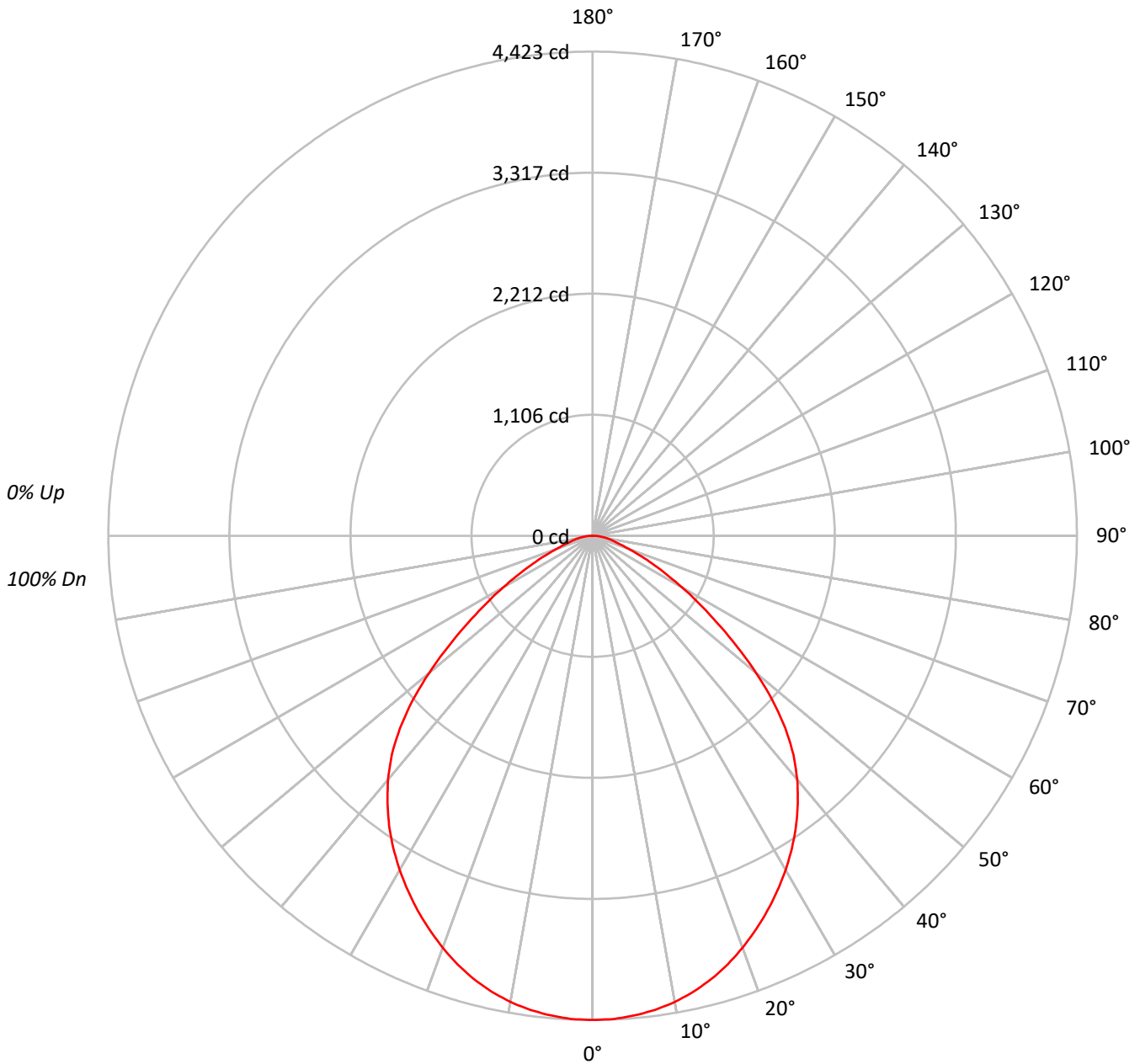
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9430.1 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 97.1  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51			
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46			
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41			
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37			
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33			
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	543332
5°	542447
10°	539488
15°	533245
20°	523566
25°	512231
30°	500039
35°	485774
40°	466223
45°	432476
50°	372581
55°	297208
60°	231382
65°	173197
70°	125684
75°	99633
80°	93388
85°	93033



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.6	4.4
10°-20°	1180.7	12.5
20°-30°	1740.0	18.5
30°-40°	2021.3	21.4
40°-50°	1900.0	20.1
50°-60°	1257.7	13.3
60°-70°	606.1	6.4
70°-80°	233.7	2.5
80°-90°	72.9	0.8
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°	3338.3	35.4
0°-40°	5359.7	56.8
0°-60°	8517.4	90.3
0°-90°	9430.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9430.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4423	
5°	4399	418
15°	4193	1181
25°	3779	1740
35°	3239	2021
45°	2489	1900
55°	1388	1258
65°	596	606
75°	210	234
85°	66	73
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4422.6
2.5°	4418.6
5°	4398.6
7.5°	4368.6
10°	4324.6
12.5°	4264.6
15°	4192.6
17.5°	4104.7
20°	4004.7
22.5°	3894.7
25°	3778.8
27.5°	3654.8
30°	3524.9
32.5°	3386.9
35°	3239.0
37.5°	3077.0
40°	2907.1
42.5°	2715.1
45°	2489.2
47.5°	2233.3
50°	1949.4
52.5°	1661.5
55°	1387.6
57.5°	1151.6
60°	941.7
62.5°	753.8
65°	595.8
67.5°	461.9
70°	349.9
72.5°	265.9
75°	209.9
77.5°	169.9
80°	132.0
82.5°	98.0
85°	66.0
87.5°	38.0
90°	0.0



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— 0°-180°







(END OF REPORT)