

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: P839425

Luminaire Tested: **LD4C90D010 EU4909040 4LBPSMW**

Issue Date: 6/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P839425  
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 EU4909040 4LBPSMW  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

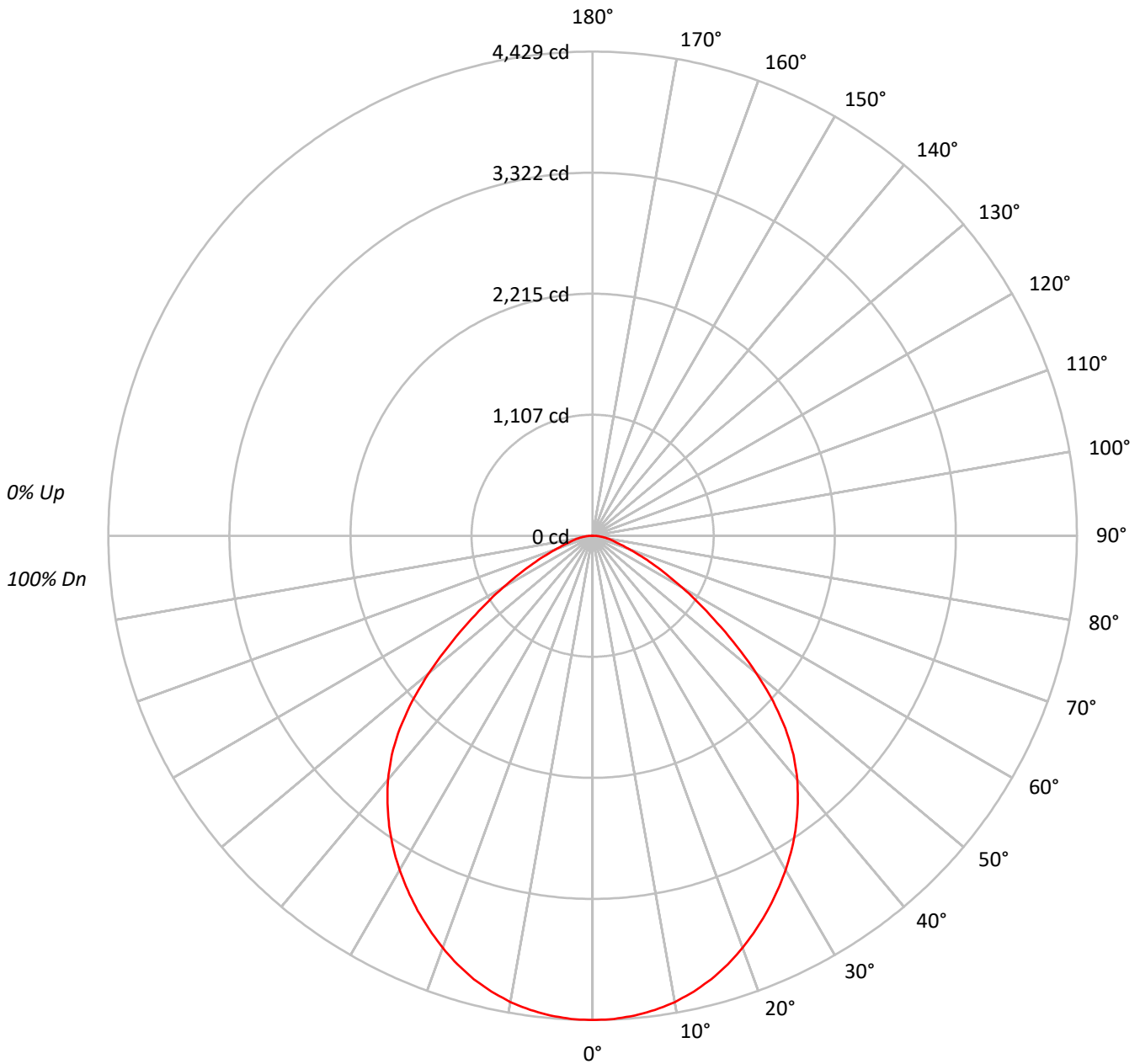
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9444.0 lumens  
Efficiency: N/A  
Efficacy: 97.3 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
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°	544130
5°	543249
10°	540287
15°	534047
20°	524338
25°	512990
30°	500776
35°	486493
40°	466912
45°	433119
50°	373135
55°	297636
60°	231726
65°	173458
70°	125864
75°	99776
80°	93530
85°	93174



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	418.2	4.4
10°-20°	1182.5	12.5
20°-30°	1742.6	18.5
30°-40°	2024.3	21.4
40°-50°	1902.8	20.1
50°-60°	1259.5	13.3
60°-70°	606.9	6.4
70°-80°	234.0	2.5
80°-90°	73.0	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°	3343.3	35.4
0°-40°	5367.6	56.8
0°-60°	8530.0	90.3
0°-90°	9444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9444.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4429	
5°	4405	418
15°	4199	1182
25°	3784	1743
35°	3244	2024
45°	2493	1903
55°	1390	1260
65°	597	607
75°	210	234
85°	66	73
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4429.1
2.5°	4425.1
5°	4405.1
7.5°	4375.1
10°	4331.0
12.5°	4270.9
15°	4198.9
17.5°	4110.8
20°	4010.6
22.5°	3900.5
25°	3784.4
27.5°	3660.2
30°	3530.1
32.5°	3391.9
35°	3243.8
37.5°	3081.6
40°	2911.4
42.5°	2719.2
45°	2492.9
47.5°	2236.6
50°	1952.3
52.5°	1663.9
55°	1389.6
57.5°	1153.3
60°	943.1
62.5°	754.9
65°	596.7
67.5°	462.5
70°	350.4
72.5°	266.3
75°	210.2
77.5°	170.2
80°	132.2
82.5°	98.1
85°	66.1
87.5°	38.0
90°	0.0



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— 0°-180°







(END OF REPORT)