

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: P839176

Luminaire Tested: **LD4C100D010 EU41009027 4LBPSMW**

Issue Date: 6/29/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P839176  
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: LD4C100D010 EU41009027 4LBPSMW  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

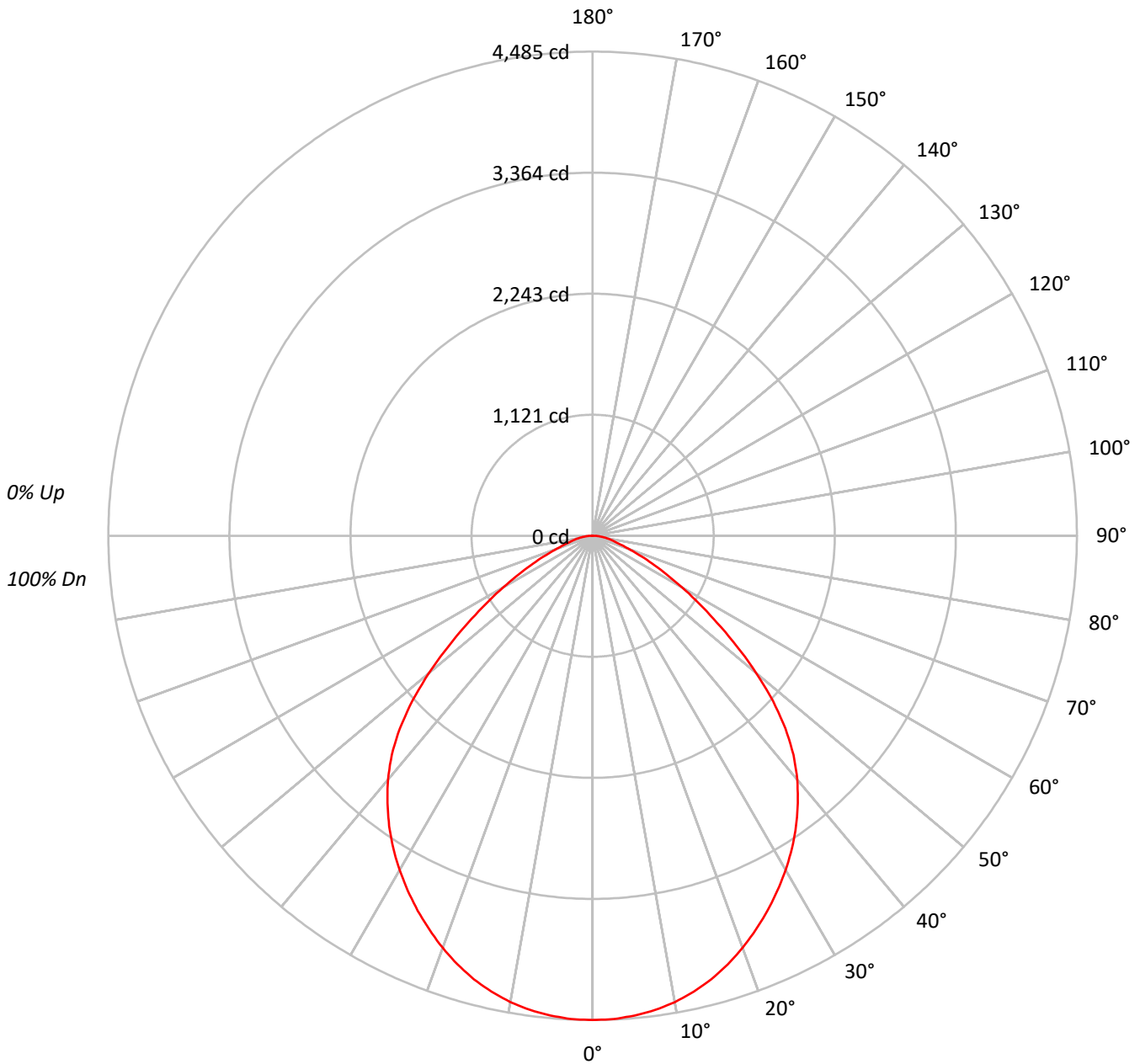
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9564.1 lumens  
Efficiency: N/A  
Efficacy: 83.6 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): 114.4  
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			100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76			76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51			51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46			46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41			41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37			37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33			33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			30

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

	0°
0°	551047
5°	550155
10°	547160
15°	540826
20°	531005
25°	519510
30°	507132
35°	492672
40°	472846
45°	438627
50°	377875
55°	301427
60°	234675
65°	175668
70°	127480
75°	101057
80°	94661
85°	94301



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.5	4.4
10°-20°	1197.5	12.5
20°-30°	1764.8	18.5
30°-40°	2050.0	21.4
40°-50°	1927.0	20.1
50°-60°	1275.6	13.3
60°-70°	614.7	6.4
70°-80°	237.0	2.5
80°-90°	73.9	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°	3385.8	35.4
0°-40°	5435.8	56.8
0°-60°	8638.4	90.3
0°-90°	9564.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9564.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4485	
5°	4461	424
15°	4252	1198
25°	3832	1765
35°	3285	2050
45°	2525	1927
55°	1407	1276
65°	604	615
75°	213	237
85°	67	74
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4485.4
2.5°	4481.4
5°	4461.1
7.5°	4430.7
10°	4386.1
12.5°	4325.2
15°	4252.2
17.5°	4163.0
20°	4061.6
22.5°	3950.1
25°	3832.5
27.5°	3706.8
30°	3574.9
32.5°	3435.0
35°	3285.0
37.5°	3120.7
40°	2948.4
42.5°	2753.7
45°	2524.6
47.5°	2265.0
50°	1977.1
52.5°	1685.1
55°	1407.3
57.5°	1168.0
60°	955.1
62.5°	764.5
65°	604.3
67.5°	468.4
70°	354.9
72.5°	269.7
75°	212.9
77.5°	172.4
80°	133.8
82.5°	99.4
85°	66.9
87.5°	38.5
90°	0.0



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— 0°-180°







(END OF REPORT)