

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: P839311

Luminaire Tested: **LD4C50D010 EU4509027 4LBPSMW**

Issue Date: 6/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P839311  
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: LD4C50D010 EU4509027 4LBPSMW  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

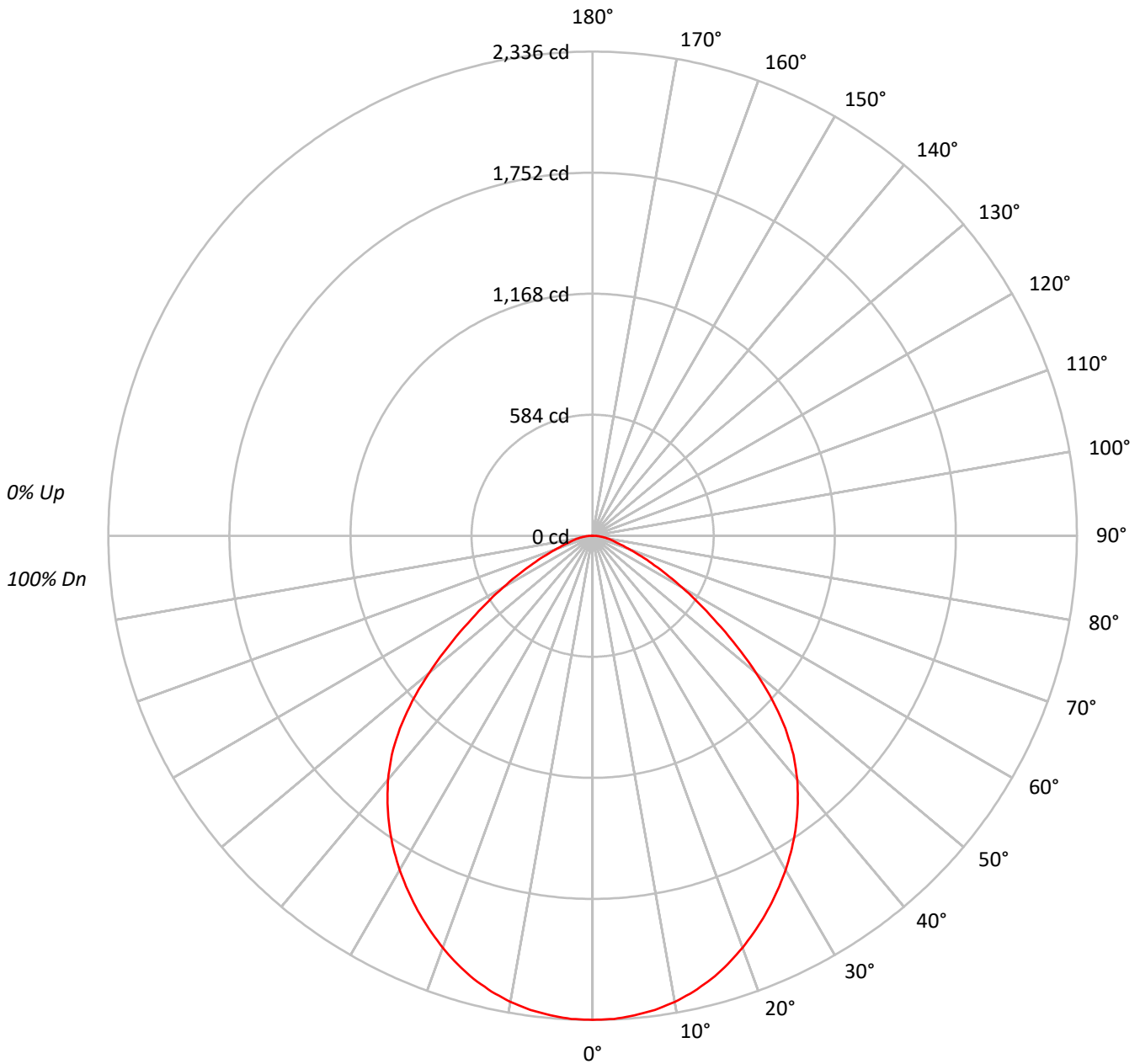
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4980.0 lumens  
Efficiency: N/A  
Efficacy: 85.3 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): 58.4  
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	100	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88	88	88	88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46	46	46	46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41	41	41	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37	37	37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30

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

	0°
0°	286937
5°	286466
10°	284901
15°	281605
20°	276498
25°	270511
30°	264070
35°	256535
40°	246206
45°	228383
50°	196764
55°	156957
60°	122190
65°	91453
70°	66380
75°	52641
80°	49312
85°	49054



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.5	4.4
10°-20°	623.6	12.5
20°-30°	918.9	18.5
30°-40°	1067.5	21.4
40°-50°	1003.4	20.1
50°-60°	664.2	13.3
60°-70°	320.0	6.4
70°-80°	123.4	2.5
80°-90°	38.5	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°	1763.0	35.4
0°-40°	2830.4	56.8
0°-60°	4498.0	90.3
0°-90°	4980.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4980.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2336	
5°	2323	221
15°	2214	624
25°	1996	919
35°	1710	1067
45°	1314	1003
55°	733	664
65°	315	320
75°	111	123
85°	35	38
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2335.6
2.5°	2333.5
5°	2322.9
7.5°	2307.1
10°	2283.8
12.5°	2252.2
15°	2214.1
17.5°	2167.7
20°	2114.9
22.5°	2056.8
25°	1995.6
27.5°	1930.1
30°	1861.5
32.5°	1788.6
35°	1710.5
37.5°	1625.0
40°	1535.2
42.5°	1433.9
45°	1314.5
47.5°	1179.4
50°	1029.5
52.5°	877.4
55°	732.8
57.5°	608.2
60°	497.3
62.5°	398.1
65°	314.6
67.5°	243.9
70°	184.8
72.5°	140.4
75°	110.9
77.5°	89.7
80°	69.7
82.5°	51.7
85°	34.8
87.5°	20.1
90°	0.0



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— 0°-180°







(END OF REPORT)