

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: P839314

Luminaire Tested: **LD4C50D010 EU4509030 4LBPSMW**

Issue Date: 6/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P839314  
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 EU4509030 4LBPSMW  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

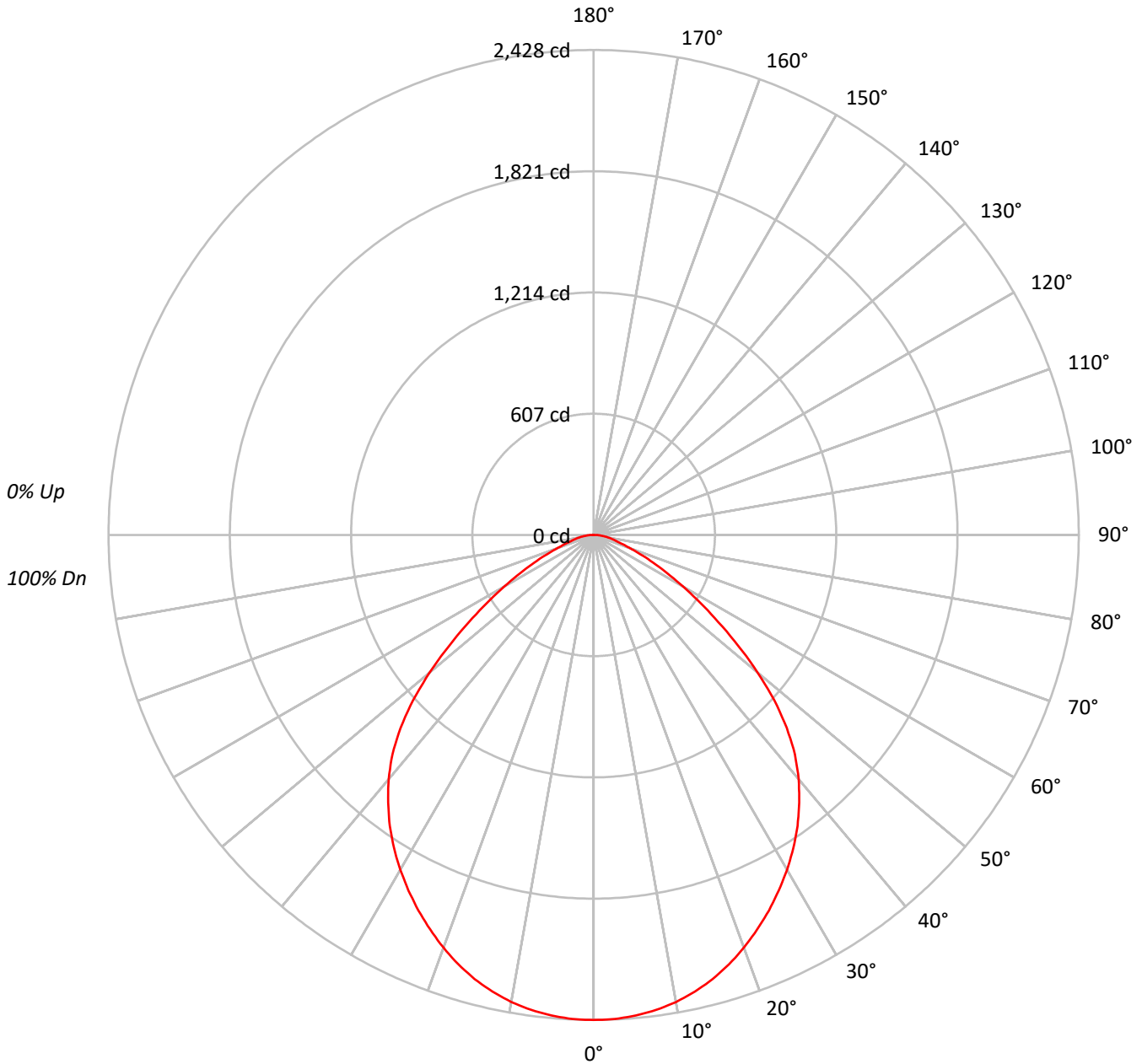
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5178.1 lumens  
Efficiency: N/A  
Efficacy: 88.7 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°	298337
5°	297861
10°	296228
15°	292811
20°	287493
25°	281261
30°	274568
35°	266733
40°	256005
45°	237469
50°	204581
55°	163190
60°	127055
65°	95116
70°	69002
75°	54729
80°	51293
85°	51027



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.3	4.4
10°-20°	648.3	12.5
20°-30°	955.4	18.5
30°-40°	1109.9	21.4
40°-50°	1043.3	20.1
50°-60°	690.6	13.3
60°-70°	332.8	6.4
70°-80°	128.3	2.5
80°-90°	40.0	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°	1833.1	35.4
0°-40°	2943.0	56.8
0°-60°	4676.9	90.3
0°-90°	5178.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5178.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2428	
5°	2415	229
15°	2302	648
25°	2075	955
35°	1778	1110
45°	1367	1043
55°	762	691
65°	327	333
75°	115	128
85°	36	40
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2428.4
2.5°	2426.2
5°	2415.3
7.5°	2398.8
10°	2374.6
12.5°	2341.7
15°	2302.2
17.5°	2253.9
20°	2199.0
22.5°	2138.6
25°	2074.9
27.5°	2006.9
30°	1935.5
32.5°	1859.7
35°	1778.5
37.5°	1689.6
40°	1596.3
42.5°	1490.9
45°	1366.8
47.5°	1226.3
50°	1070.4
52.5°	912.3
55°	761.9
57.5°	632.4
60°	517.1
62.5°	413.9
65°	327.2
67.5°	253.6
70°	192.1
72.5°	146.0
75°	115.3
77.5°	93.3
80°	72.5
82.5°	53.8
85°	36.2
87.5°	20.9
90°	0.0



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— 0°-180°







(END OF REPORT)