

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: P839218

Luminaire Tested: **LD4C15D010 EU4159050 4LBPSMW**

Issue Date: 6/29/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P839218  
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: LD4C15D010 EU4159050 4LBPSMW  
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

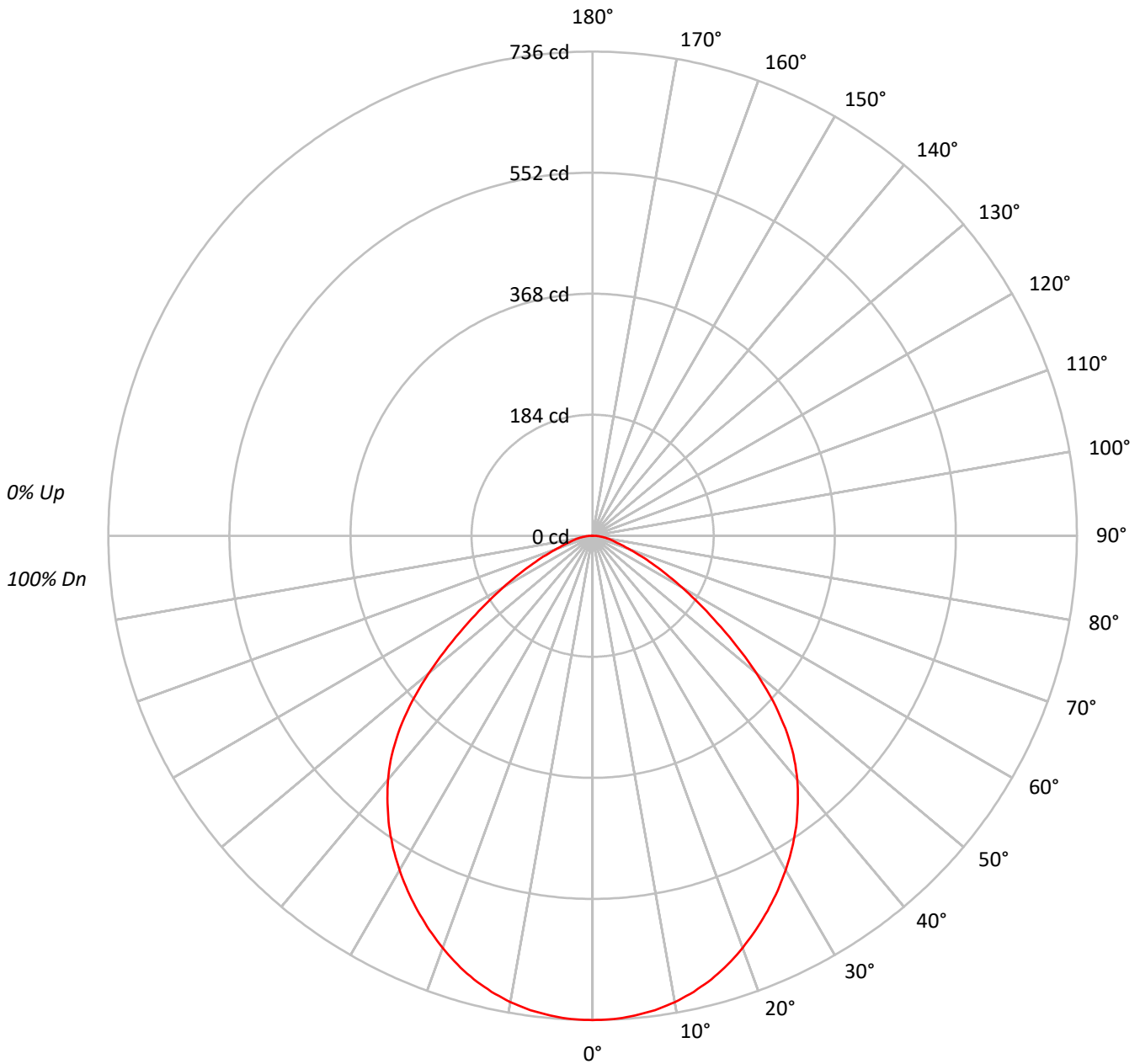
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1570.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 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): 15.8  
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									
RC	80									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°	90457
5°	90309
10°	89819
15°	88777
20°	87163
25°	85277
30°	83257
35°	80882
40°	77621
45°	71998
50°	62040
55°	49478
60°	38527
65°	28837
70°	20941
75°	16613
80°	15565
85°	15505



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.5	4.4
10°-20°	196.6	12.5
20°-30°	289.7	18.5
30°-40°	336.5	21.4
40°-50°	316.3	20.1
50°-60°	209.4	13.3
60°-70°	100.9	6.4
70°-80°	38.9	2.5
80°-90°	12.1	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°	555.8	35.4
0°-40°	892.3	56.8
0°-60°	1418.0	90.3
0°-90°	1570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1570.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	736	
5°	732	70
15°	698	197
25°	629	290
35°	539	337
45°	414	316
55°	231	209
65°	99	101
75°	35	39
85°	11	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	736.3
2.5°	735.6
5°	732.3
7.5°	727.3
10°	720.0
12.5°	710.0
15°	698.0
17.5°	683.4
20°	666.7
22.5°	648.4
25°	629.1
27.5°	608.5
30°	586.9
32.5°	563.9
35°	539.3
37.5°	512.3
40°	484.0
42.5°	452.0
45°	414.4
47.5°	371.8
50°	324.6
52.5°	276.6
55°	231.0
57.5°	191.7
60°	156.8
62.5°	125.5
65°	99.2
67.5°	76.9
70°	58.3
72.5°	44.3
75°	35.0
77.5°	28.3
80°	22.0
82.5°	16.3
85°	11.0
87.5°	6.3
90°	0.0



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— 0°-180°







(END OF REPORT)