

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: P839142

Luminaire Tested: **LD4C02D010 EU4029030 4LBPSMW**

Issue Date: 6/29/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P839142  
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: LD4C02D010 EU4029030 4LBPSMW  
Description: 4 INCH 250 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

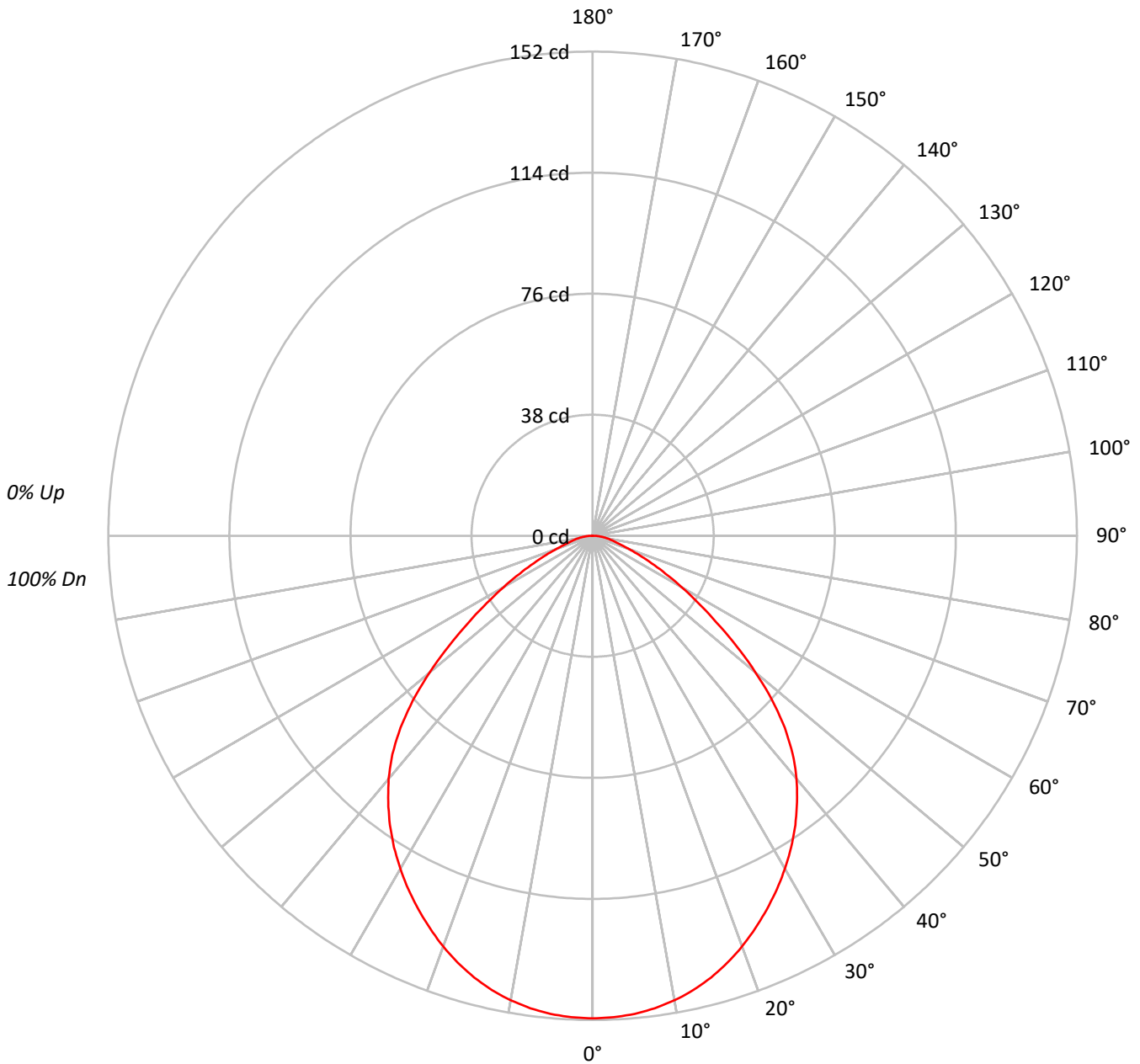
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 323.0 lumens  
Efficiency: N/A  
Efficacy: 92.3 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): 3.5  
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°	18612
5°	18585
10°	18475
15°	18264
20°	17937
25°	17541
30°	17122
35°	16632
40°	15973
45°	14820
50°	12767
55°	10174
60°	7936
65°	5930
70°	4310
75°	3418
80°	3184
85°	3242



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.3	4.4
10°-20°	40.4	12.5
20°-30°	59.6	18.5
30°-40°	69.2	21.4
40°-50°	65.1	20.2
50°-60°	43.1	13.3
60°-70°	20.8	6.4
70°-80°	8.0	2.5
80°-90°	2.5	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°	114.3	35.4
0°-40°	183.6	56.8
0°-60°	291.7	90.3
0°-90°	323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	323.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	152	
5°	151	14
15°	144	40
25°	129	60
35°	111	69
45°	85	65
55°	48	43
65°	20	21
75°	7	8
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	151.5
2.5°	151.3
5°	150.7
7.5°	149.6
10°	148.1
12.5°	146.1
15°	143.6
17.5°	140.6
20°	137.2
22.5°	133.4
25°	129.4
27.5°	125.2
30°	120.7
32.5°	116.0
35°	110.9
37.5°	105.4
40°	99.6
42.5°	93.0
45°	85.3
47.5°	76.5
50°	66.8
52.5°	56.9
55°	47.5
57.5°	39.4
60°	32.3
62.5°	25.8
65°	20.4
67.5°	15.8
70°	12.0
72.5°	9.1
75°	7.2
77.5°	5.8
80°	4.5
82.5°	3.4
85°	2.3
87.5°	1.3
90°	0.0



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— 0°-180°







(END OF REPORT)