

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: P840299

Luminaire Tested: **LDS4C100D010 EU41009027 4LPSSQMMS**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P840299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C100D010 EU41009027 4LBPSSQMMS  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

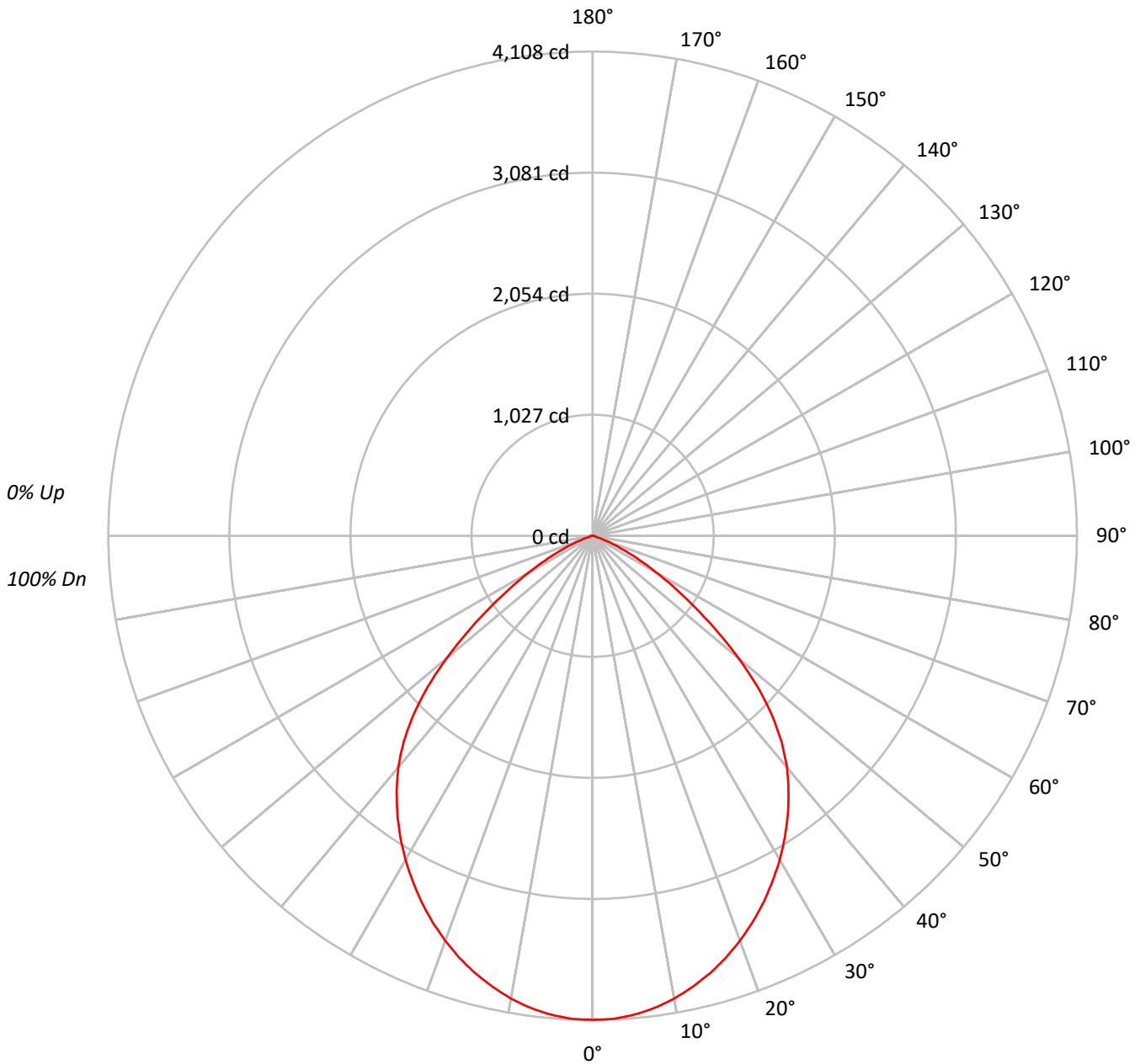
Lumens per Lamp: N/A  
Luminaire Lumens: 7823.1 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70				70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62				62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55				55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44				44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33				33

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

	0°
0°	396347
5°	394994
10°	390655
15°	383927
20°	375331
25°	365298
30°	353790
35°	340169
40°	323005
45°	293680
50°	242458
55°	178535
60°	121171
65°	70959
70°	28042
75°	6300
80°	8224
85°	14060



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	386.4	4.9
10°-20°	1082.2	13.8
20°-30°	1578.6	20.2
30°-40°	1801.9	23.0
40°-50°	1638.1	20.9
50°-60°	966.1	12.3
60°-70°	324.0	4.1
70°-80°	33.8	0.4
80°-90°	11.8	0.2
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°	3047.2	39.0
0°-40°	4849.1	62.0
0°-60°	7453.4	95.3
0°-90°	7823.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7823.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4108	
5°	4078	386
15°	3843	1082
25°	3431	1579
35°	2888	1802
45°	2152	1638
55°	1061	966
65°	311	324
75°	17	34
85°	13	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4107.7
2.5°	4101.4
5°	4078.1
7.5°	4040.1
10°	3987.2
12.5°	3919.6
15°	3843.4
17.5°	3754.7
20°	3655.3
22.5°	3547.5
25°	3431.2
27.5°	3304.4
30°	3175.4
32.5°	3033.7
35°	2887.9
37.5°	2729.3
40°	2564.4
42.5°	2372.0
45°	2152.2
47.5°	1898.5
50°	1615.2
52.5°	1331.9
55°	1061.3
57.5°	830.8
60°	627.9
62.5°	454.5
65°	310.8
67.5°	190.3
70°	99.4
72.5°	38.1
75°	16.9
77.5°	16.9
80°	14.8
82.5°	12.7
85°	12.7
87.5°	10.6
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)