

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: P840301

Luminaire Tested: **LDS4C100D010 EU41009030 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: P840301  
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 EU41009030 4LBPSSQMMS  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

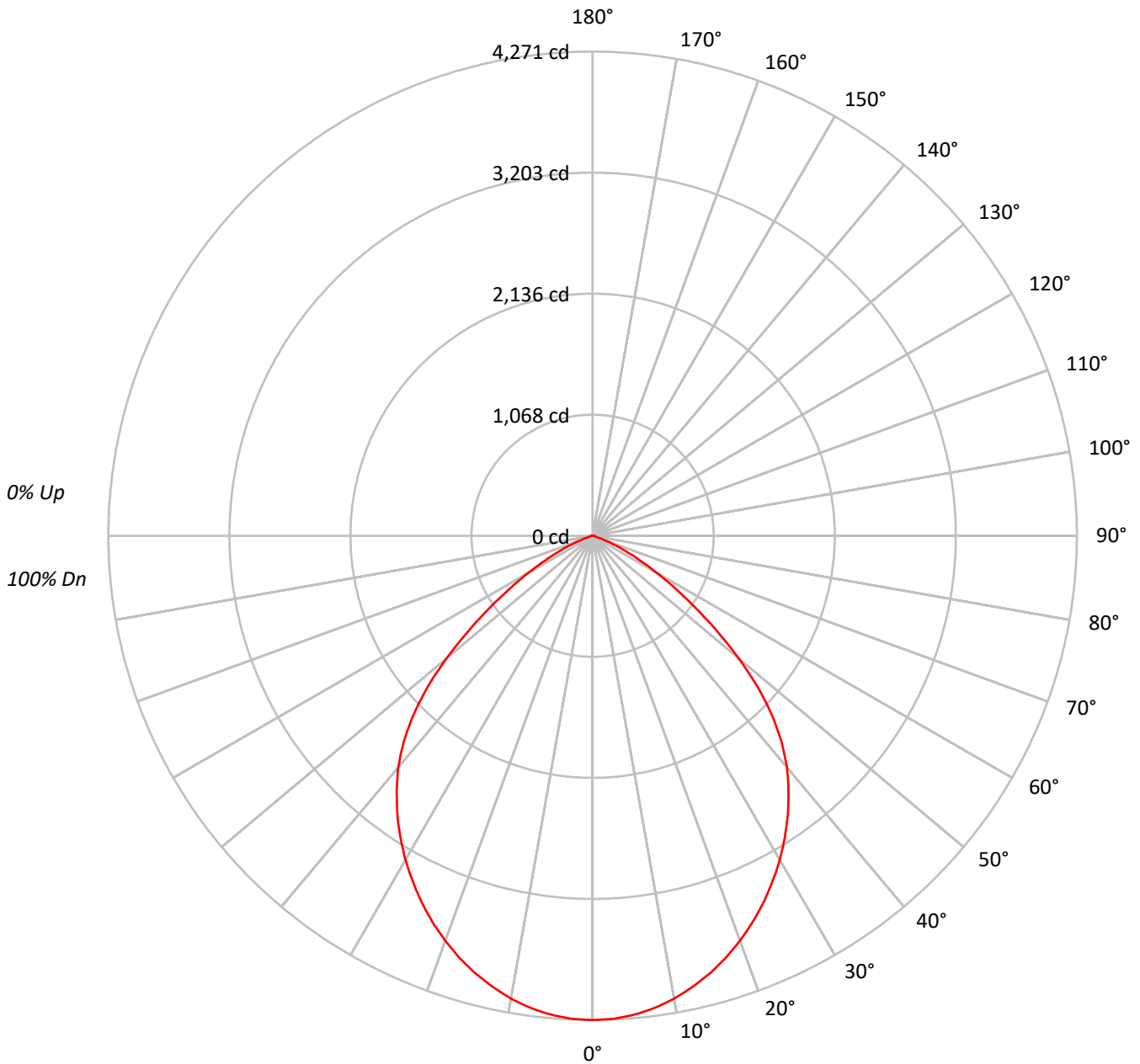
Lumens per Lamp: N/A  
Luminaire Lumens: 8134.0 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			

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

	0°
0°	412104
5°	410695
10°	406185
15°	399191
20°	390251
25°	379820
30°	367850
35°	353692
40°	335853
45°	305347
50°	252095
55°	185634
60°	125995
65°	73768
70°	29142
75°	6561
80°	8557
85°	14614



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	401.7	4.9
10°-20°	1125.3	13.8
20°-30°	1641.3	20.2
30°-40°	1873.5	23.0
40°-50°	1703.2	20.9
50°-60°	1004.6	12.4
60°-70°	336.9	4.1
70°-80°	35.2	0.4
80°-90°	12.3	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°	3168.4	39.0
0°-40°	5041.9	62.0
0°-60°	7749.6	95.3
0°-90°	8134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8134.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4271	
5°	4240	402
15°	3996	1125
25°	3568	1641
35°	3003	1874
45°	2238	1703
55°	1104	1005
65°	323	337
75°	18	35
85°	13	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4271.0
2.5°	4264.4
5°	4240.2
7.5°	4200.7
10°	4145.7
12.5°	4075.4
15°	3996.2
17.5°	3903.9
20°	3800.6
22.5°	3688.5
25°	3567.6
27.5°	3435.7
30°	3301.6
32.5°	3154.4
35°	3002.7
37.5°	2837.8
40°	2666.4
42.5°	2466.3
45°	2237.7
47.5°	1973.9
50°	1679.4
52.5°	1384.8
55°	1103.5
57.5°	863.9
60°	652.9
62.5°	472.6
65°	323.1
67.5°	197.8
70°	103.3
72.5°	39.6
75°	17.6
77.5°	17.6
80°	15.4
82.5°	13.2
85°	13.2
87.5°	11.0
90°	0.0



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— 0°-180°







(END OF REPORT)