

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: P840303

Luminaire Tested: **LDS4C100D010 EU41009035 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: P840303  
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 EU41009035 4LBPSSQMMS  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

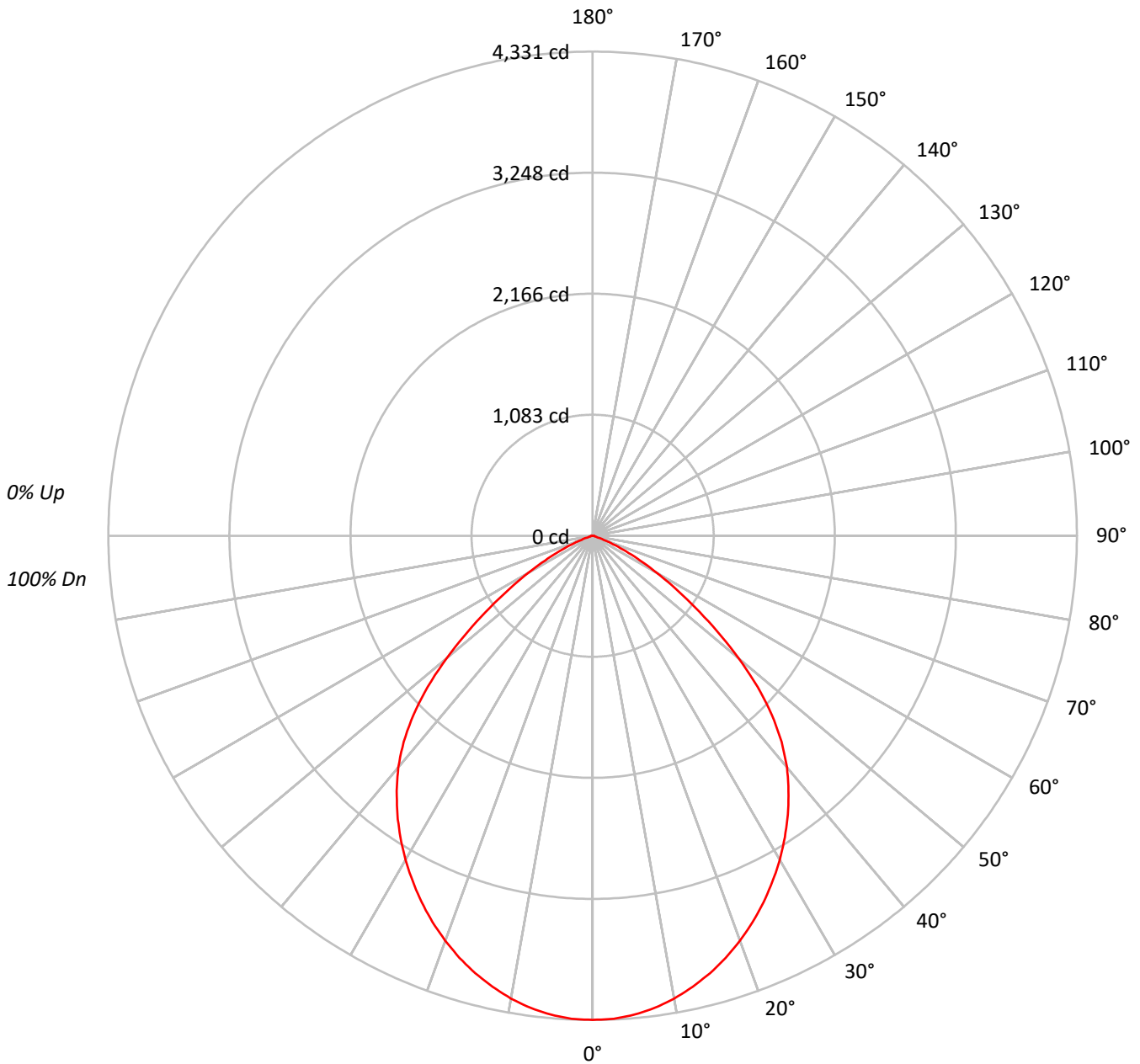
Lumens per Lamp: N/A  
Luminaire Lumens: 8248.0 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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°	417884
5°	416458
10°	411877
15°	404795
20°	395724
25°	385143
30°	373009
35°	358651
40°	340551
45°	309632
50°	255622
55°	188225
60°	127751
65°	74818
70°	29566
75°	6636
80°	8668
85°	14835



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.4	4.9
10°-20°	1141.0	13.8
20°-30°	1664.4	20.2
30°-40°	1899.8	23.0
40°-50°	1727.1	20.9
50°-60°	1018.6	12.3
60°-70°	341.6	4.1
70°-80°	35.7	0.4
80°-90°	12.5	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°	3212.8	39.0
0°-40°	5112.6	62.0
0°-60°	7858.3	95.3
0°-90°	8248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4331	
5°	4300	407
15°	4052	1141
25°	3618	1664
35°	3045	1900
45°	2269	1727
55°	1119	1019
65°	328	342
75°	18	36
85°	13	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4330.9
2.5°	4324.2
5°	4299.7
7.5°	4259.5
10°	4203.8
12.5°	4132.5
15°	4052.3
17.5°	3958.6
20°	3853.9
22.5°	3740.2
25°	3617.6
27.5°	3483.9
30°	3347.9
32.5°	3198.6
35°	3044.8
37.5°	2877.6
40°	2703.7
42.5°	2500.9
45°	2269.1
47.5°	2001.6
50°	1702.9
52.5°	1404.2
55°	1118.9
57.5°	876.0
60°	662.0
62.5°	479.2
65°	327.7
67.5°	200.6
70°	104.8
72.5°	40.1
75°	17.8
77.5°	17.8
80°	15.6
82.5°	13.4
85°	13.4
87.5°	11.1
90°	0.0



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— 0°-180°







(END OF REPORT)