

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: P840304

Luminaire Tested: **LDS4C100D010 EU41009040 4LBPSSQMB**

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: P840304  
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 EU41009040 4LBPSSQMB  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

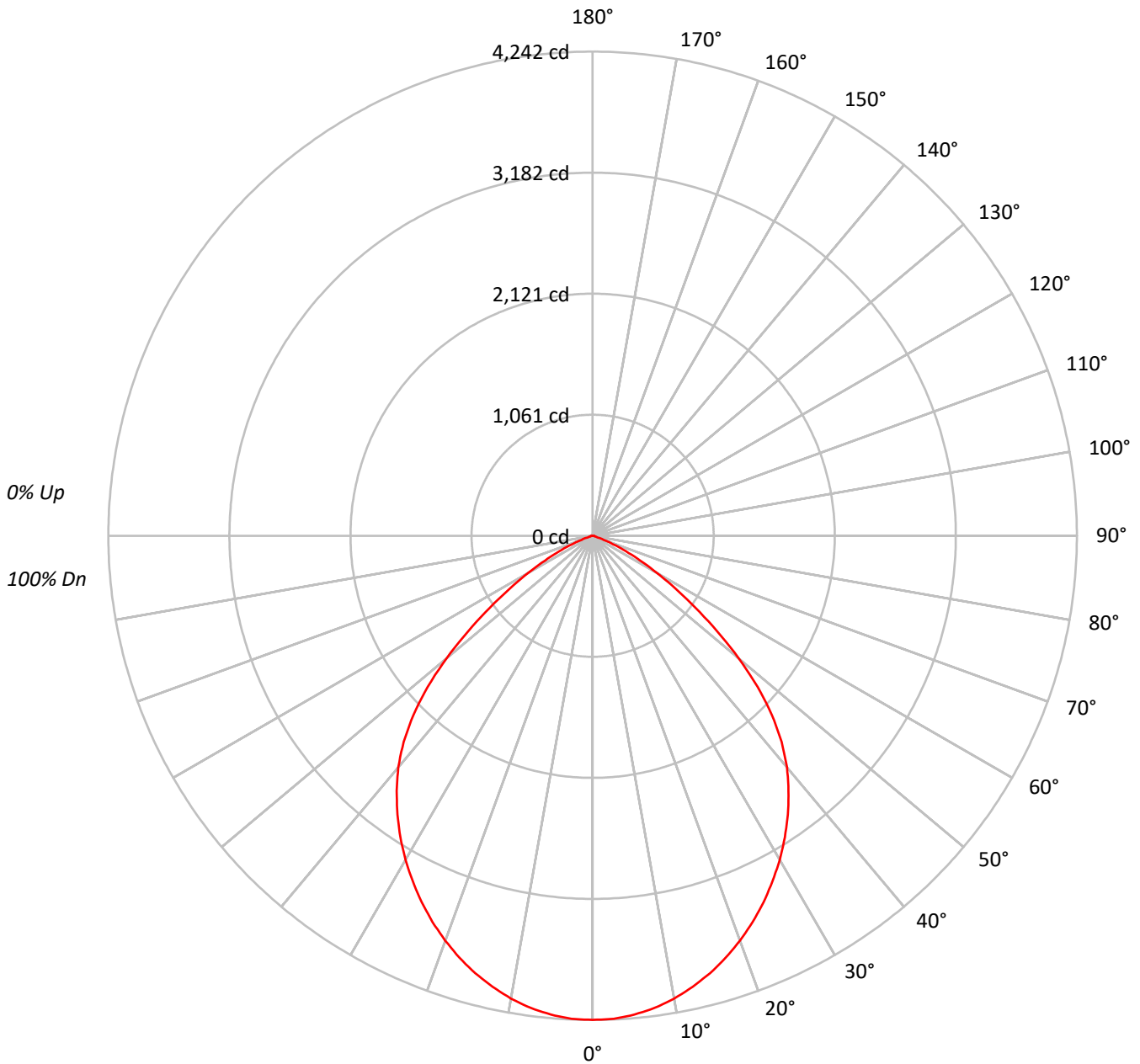
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8078.0 lumens  
Efficiency: N/A  
Efficacy: 70.6 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									
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	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°	409267
5°	407867
10°	403393
15°	396444
20°	387560
25°	377201
30°	365321
35°	351253
40°	333535
45°	303246
50°	250354
55°	184356
60°	125127
65°	73265
70°	28945
75°	6524
80°	8502
85°	14503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.0	4.9
10°-20°	1117.5	13.8
20°-30°	1630.0	20.2
30°-40°	1860.6	23.0
40°-50°	1691.5	20.9
50°-60°	997.6	12.3
60°-70°	334.6	4.1
70°-80°	35.0	0.4
80°-90°	12.2	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°	3146.5	39.0
0°-40°	5007.2	62.0
0°-60°	7696.3	95.3
0°-90°	8078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8078.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4242	
5°	4211	399
15°	3969	1118
25°	3543	1630
35°	2982	1861
45°	2222	1691
55°	1096	998
65°	321	335
75°	18	35
85°	13	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4241.6
2.5°	4235.1
5°	4211.0
7.5°	4171.8
10°	4117.2
12.5°	4047.3
15°	3968.7
17.5°	3877.0
20°	3774.4
22.5°	3663.1
25°	3543.0
27.5°	3412.1
30°	3278.9
32.5°	3132.6
35°	2982.0
37.5°	2818.3
40°	2648.0
42.5°	2449.3
45°	2222.3
47.5°	1960.4
50°	1667.8
52.5°	1375.3
55°	1095.9
57.5°	857.9
60°	648.4
62.5°	469.3
65°	320.9
67.5°	196.5
70°	102.6
72.5°	39.3
75°	17.5
77.5°	17.5
80°	15.3
82.5°	13.1
85°	13.1
87.5°	10.9
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)