

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: P840298

Luminaire Tested: **LDS4C100D010 EU41009027 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: P840298  
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 4LBPSSQMB  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

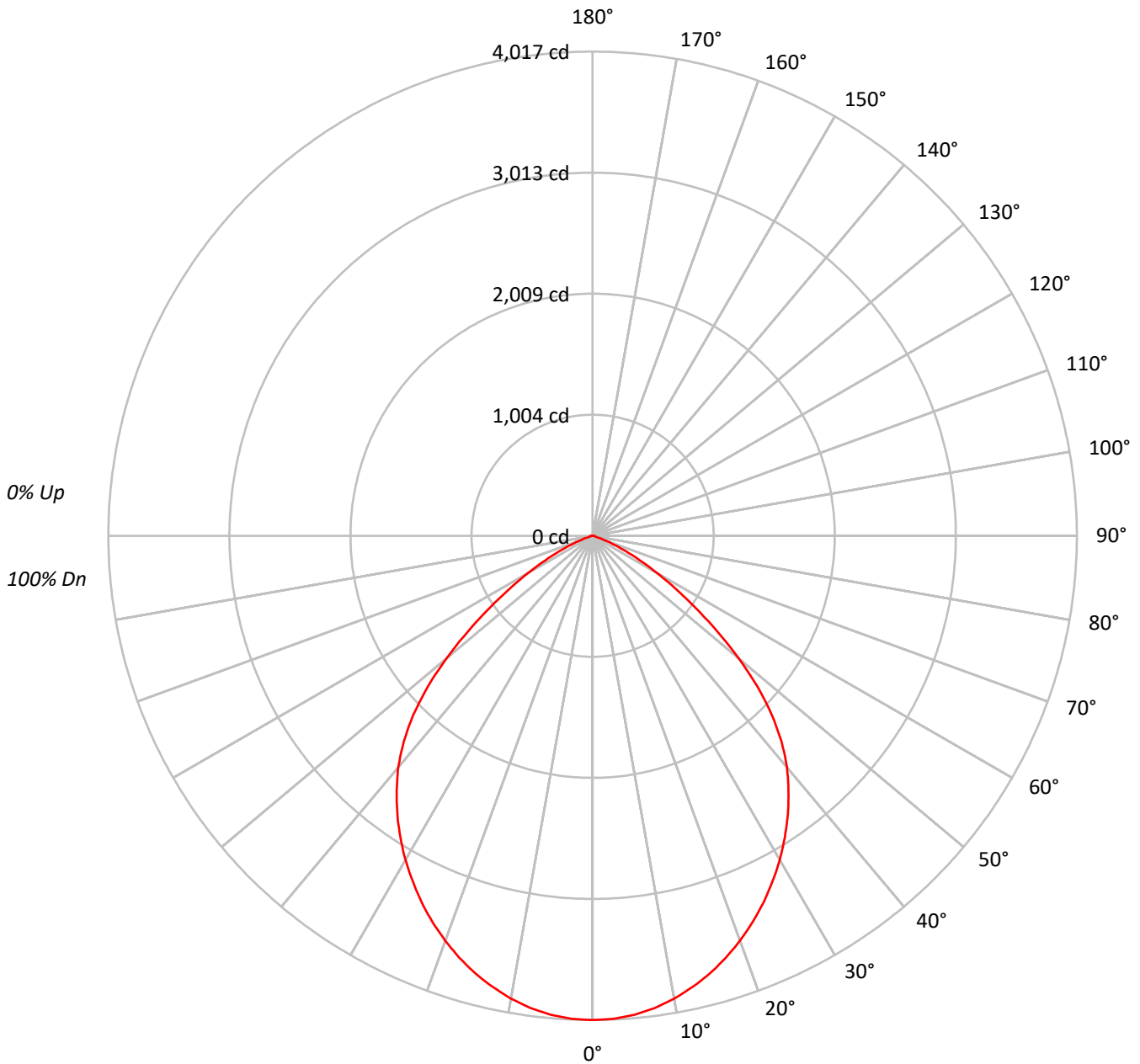
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7650.9 lumens  
Efficiency: N/A  
Efficacy: 66.9 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°	387634
5°	386316
10°	382063
15°	375486
20°	367076
25°	357271
30°	346013
35°	332689
40°	315901
45°	287212
50°	237129
55°	174599
60°	118508
65°	69384
70°	27422
75°	6151
80°	8057
85°	13728



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.9	4.9
10°-20°	1058.4	13.8
20°-30°	1543.9	20.2
30°-40°	1762.3	23.0
40°-50°	1602.1	20.9
50°-60°	944.9	12.4
60°-70°	316.9	4.1
70°-80°	33.1	0.4
80°-90°	11.5	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°	2980.2	39.0
0°-40°	4742.5	62.0
0°-60°	7289.5	95.3
0°-90°	7650.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7650.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4017	
5°	3988	378
15°	3759	1058
25°	3356	1544
35°	2824	1762
45°	2105	1602
55°	1038	945
65°	304	317
75°	16	33
85°	12	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4017.4
2.5°	4011.2
5°	3988.5
7.5°	3951.2
10°	3899.5
12.5°	3833.4
15°	3758.9
17.5°	3672.1
20°	3574.9
22.5°	3469.5
25°	3355.8
27.5°	3231.7
30°	3105.6
32.5°	2967.0
35°	2824.4
37.5°	2669.3
40°	2508.0
42.5°	2319.9
45°	2104.8
47.5°	1856.7
50°	1579.7
52.5°	1302.6
55°	1037.9
57.5°	812.6
60°	614.1
62.5°	444.5
65°	303.9
67.5°	186.1
70°	97.2
72.5°	37.2
75°	16.5
77.5°	16.5
80°	14.5
82.5°	12.4
85°	12.4
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)