

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: P839677

Luminaire Tested: **LDS4C100D010 EU41009040 4LBCSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839677  
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 4LBCSMMS  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBCS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

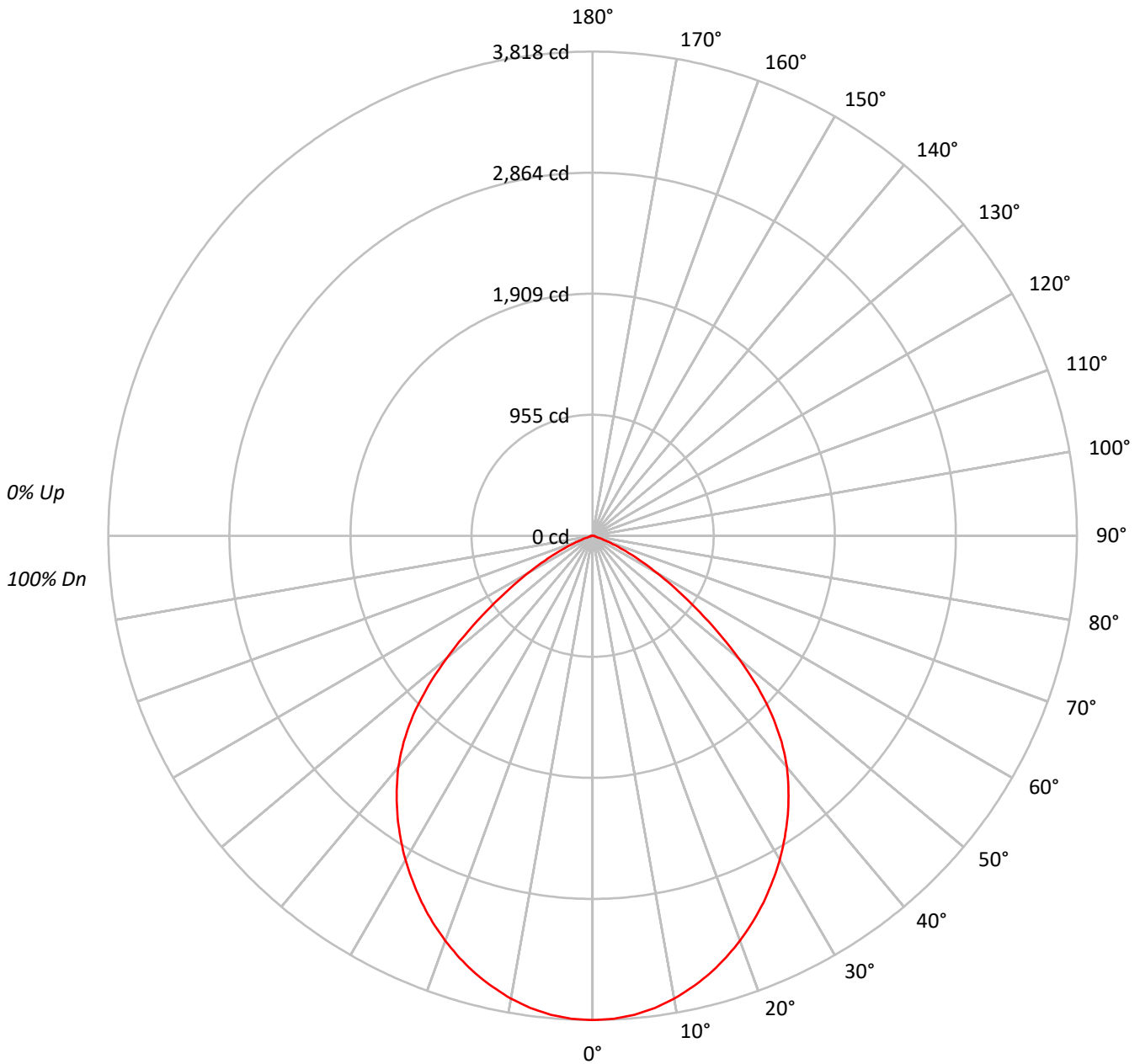
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7272.0 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Circular (Dia: 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°	469104
5°	467504
10°	462369
15°	454402
20°	444221
25°	432349
30°	418725
35°	402612
40°	382299
45°	347586
50°	286957
55°	211297
60°	143419
65°	83982
70°	33190
75°	7452
80°	9763
85°	16633



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.2	4.9
10°-20°	1006.0	13.8
20°-30°	1467.4	20.2
30°-40°	1675.0	23.0
40°-50°	1522.7	20.9
50°-60°	898.1	12.3
60°-70°	301.2	4.1
70°-80°	31.5	0.4
80°-90°	11.0	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°	2832.6	39.0
0°-40°	4507.6	62.0
0°-60°	6928.4	95.3
0°-90°	7272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7272.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3818	
5°	3791	359
15°	3573	1006
25°	3190	1467
35°	2684	1675
45°	2001	1523
55°	986	898
65°	289	301
75°	16	31
85°	12	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3818.4
2.5°	3812.5
5°	3790.9
7.5°	3755.5
10°	3706.4
12.5°	3643.5
15°	3572.7
17.5°	3490.2
20°	3397.8
22.5°	3297.6
25°	3189.5
27.5°	3071.6
30°	2951.7
32.5°	2820.1
35°	2684.5
37.5°	2537.1
40°	2383.8
42.5°	2205.0
45°	2000.6
47.5°	1764.8
50°	1501.4
52.5°	1238.1
55°	986.5
57.5°	772.3
60°	583.7
62.5°	422.5
65°	288.9
67.5°	176.9
70°	92.4
72.5°	35.4
75°	15.7
77.5°	15.7
80°	13.8
82.5°	11.8
85°	11.8
87.5°	9.8
90°	0.0



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— 0°-180°







(END OF REPORT)