

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: P839691

Luminaire Tested: **LDS4C100D010 EU41009050 4LBSGPH**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P839691  
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 EU41009050 4LBSGPH  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBS TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

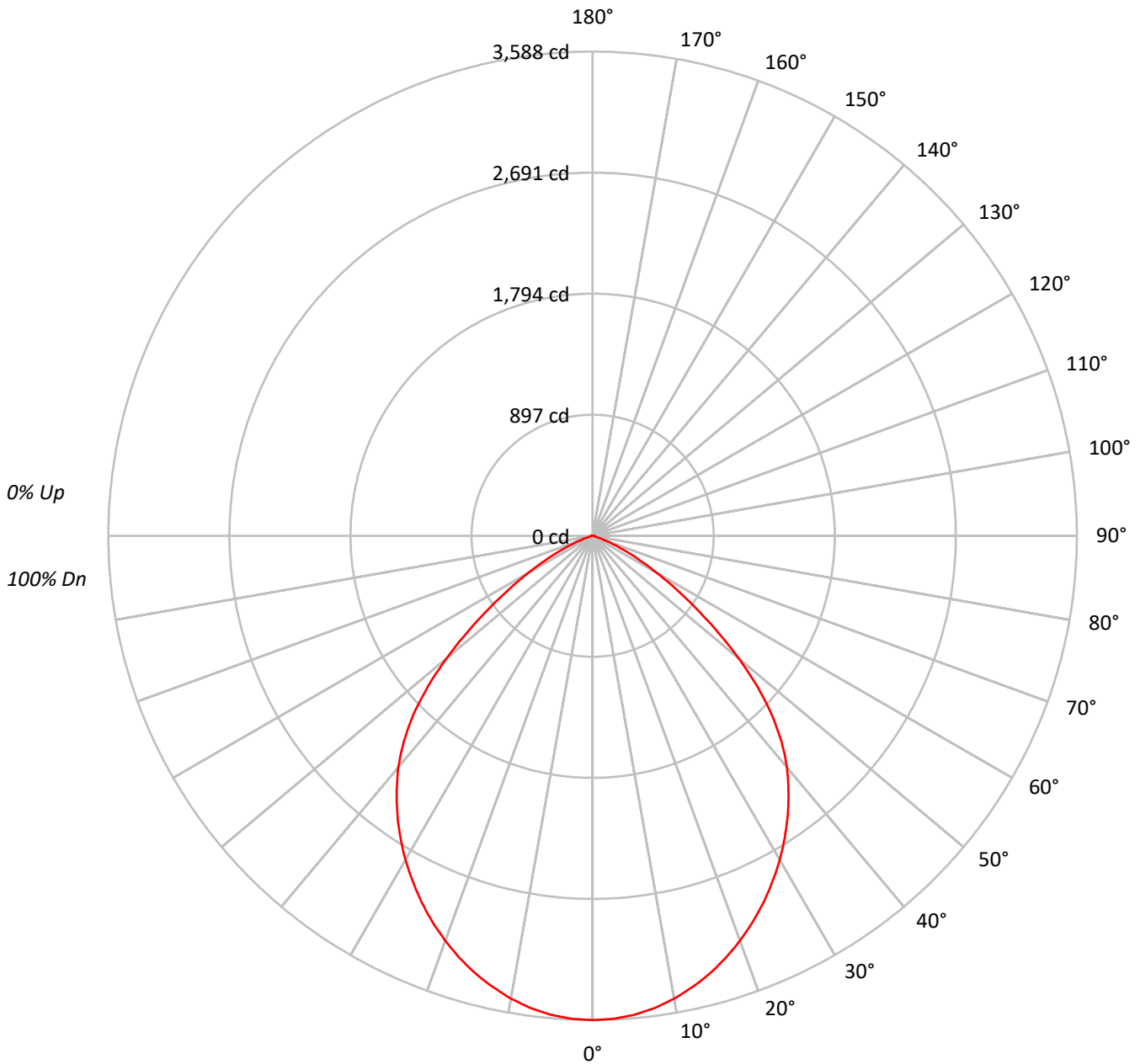
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6834.0 lumens  
Efficiency: N/A  
Efficacy: 59.7 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°	440847
5°	439350
10°	434512
15°	427044
20°	417472
25°	406309
30°	393517
35°	378360
40°	359269
45°	326651
50°	269679
55°	198574
60°	134770
65°	78924
70°	31179
75°	7025
80°	9127
85°	15646



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.5	4.9
10°-20°	945.4	13.8
20°-30°	1379.0	20.2
30°-40°	1574.1	23.0
40°-50°	1431.0	20.9
50°-60°	844.0	12.3
60°-70°	283.1	4.1
70°-80°	29.6	0.4
80°-90°	10.3	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°	2662.0	39.0
0°-40°	4236.1	62.0
0°-60°	6511.1	95.3
0°-90°	6834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6834.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3588	
5°	3563	338
15°	3358	945
25°	2997	1379
35°	2523	1574
45°	1880	1431
55°	927	844
65°	272	283
75°	15	30
85°	11	10
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3588.4
2.5°	3582.9
5°	3562.6
7.5°	3529.3
10°	3483.1
12.5°	3424.0
15°	3357.6
17.5°	3280.0
20°	3193.2
22.5°	3099.0
25°	2997.4
27.5°	2886.6
30°	2774.0
32.5°	2650.2
35°	2522.8
37.5°	2384.3
40°	2240.2
42.5°	2072.2
45°	1880.1
47.5°	1658.5
50°	1411.0
52.5°	1163.5
55°	927.1
57.5°	725.8
60°	548.5
62.5°	397.1
65°	271.5
67.5°	166.2
70°	86.8
72.5°	33.2
75°	14.8
77.5°	14.8
80°	12.9
82.5°	11.1
85°	11.1
87.5°	9.2
90°	0.0



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— 0°-180°







(END OF REPORT)