

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: P839701

Luminaire Tested: **LDS4C10D010 EU4109027 4LBSGPH**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839701  
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: LDS4C10D010 EU4109027 4LBSGPH  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBS TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

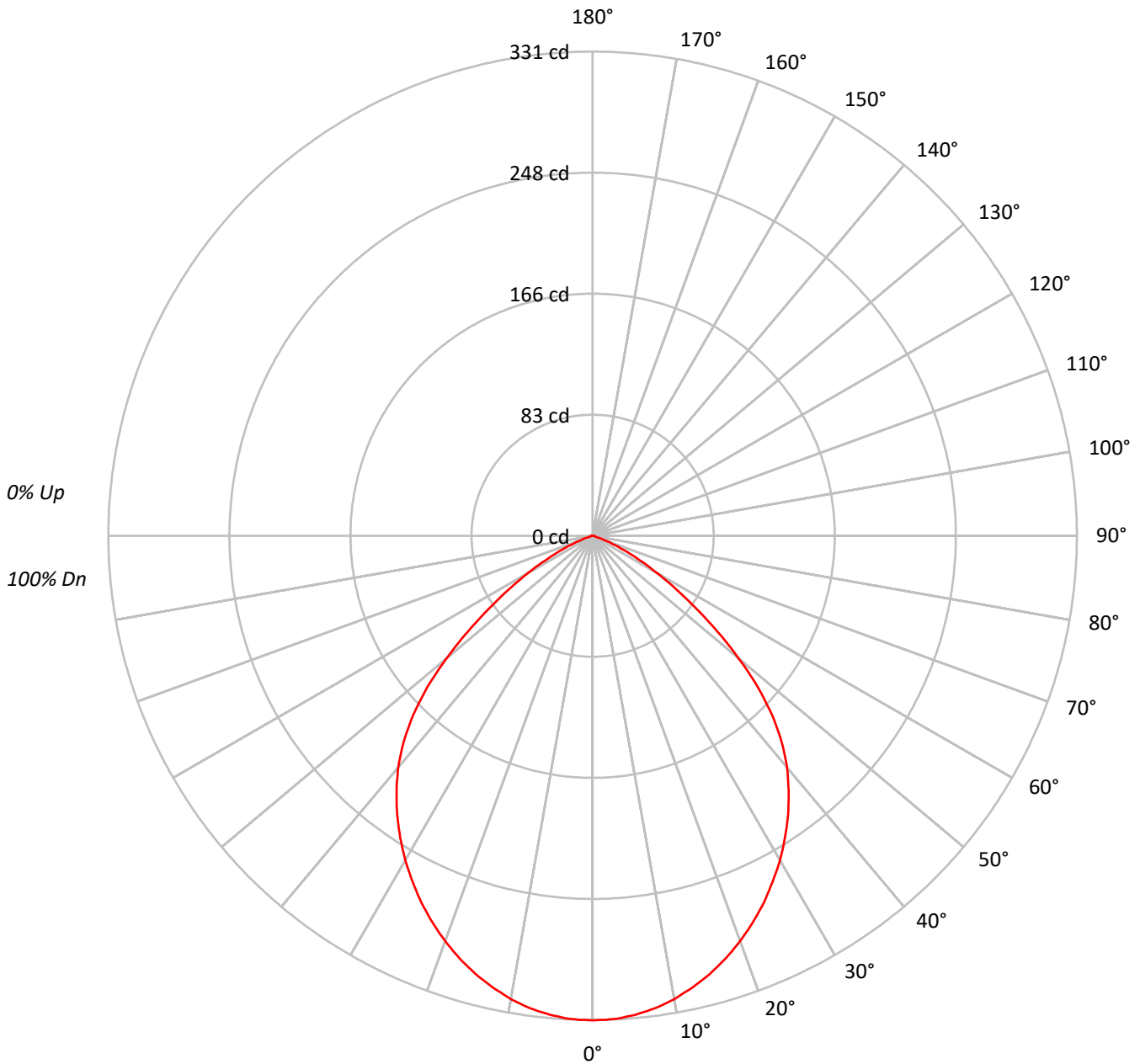
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 631.0 lumens  
Efficiency: N/A  
Efficacy: 64.4 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): 9.8  
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			100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	40701
5°	40561
10°	40119
15°	39428
20°	38542
25°	37521
30°	36330
35°	34930
40°	33165
45°	30161
50°	24904
55°	18335
60°	12433
65°	7296
70°	2874
75°	665
80°	849
85°	1410



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.2	4.9
10°-20°	87.3	13.8
20°-30°	127.3	20.2
30°-40°	145.3	23.0
40°-50°	132.1	20.9
50°-60°	77.9	12.3
60°-70°	26.1	4.1
70°-80°	2.8	0.4
80°-90°	1.0	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°	245.8	39.0
0°-40°	391.1	62.0
0°-60°	601.1	95.3
0°-90°	631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	631.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	331	
5°	329	31
15°	310	87
25°	277	127
35°	233	145
45°	174	132
55°	86	78
65°	25	26
75°	1	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	331.3
2.5°	330.8
5°	328.9
7.5°	325.9
10°	321.6
12.5°	316.1
15°	310.0
17.5°	302.8
20°	294.8
22.5°	286.1
25°	276.8
27.5°	266.5
30°	256.1
32.5°	244.7
35°	232.9
37.5°	220.1
40°	206.8
42.5°	191.3
45°	173.6
47.5°	153.1
50°	130.3
52.5°	107.4
55°	85.6
57.5°	67.0
60°	50.6
62.5°	36.7
65°	25.1
67.5°	15.3
70°	8.0
72.5°	3.1
75°	1.4
77.5°	1.4
80°	1.2
82.5°	1.0
85°	1.0
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)