

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: P839731

Luminaire Tested: **LDS4C10D010 EU4109040 4LBSGPH**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839731  
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 EU4109040 4LBSGPH  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBS TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

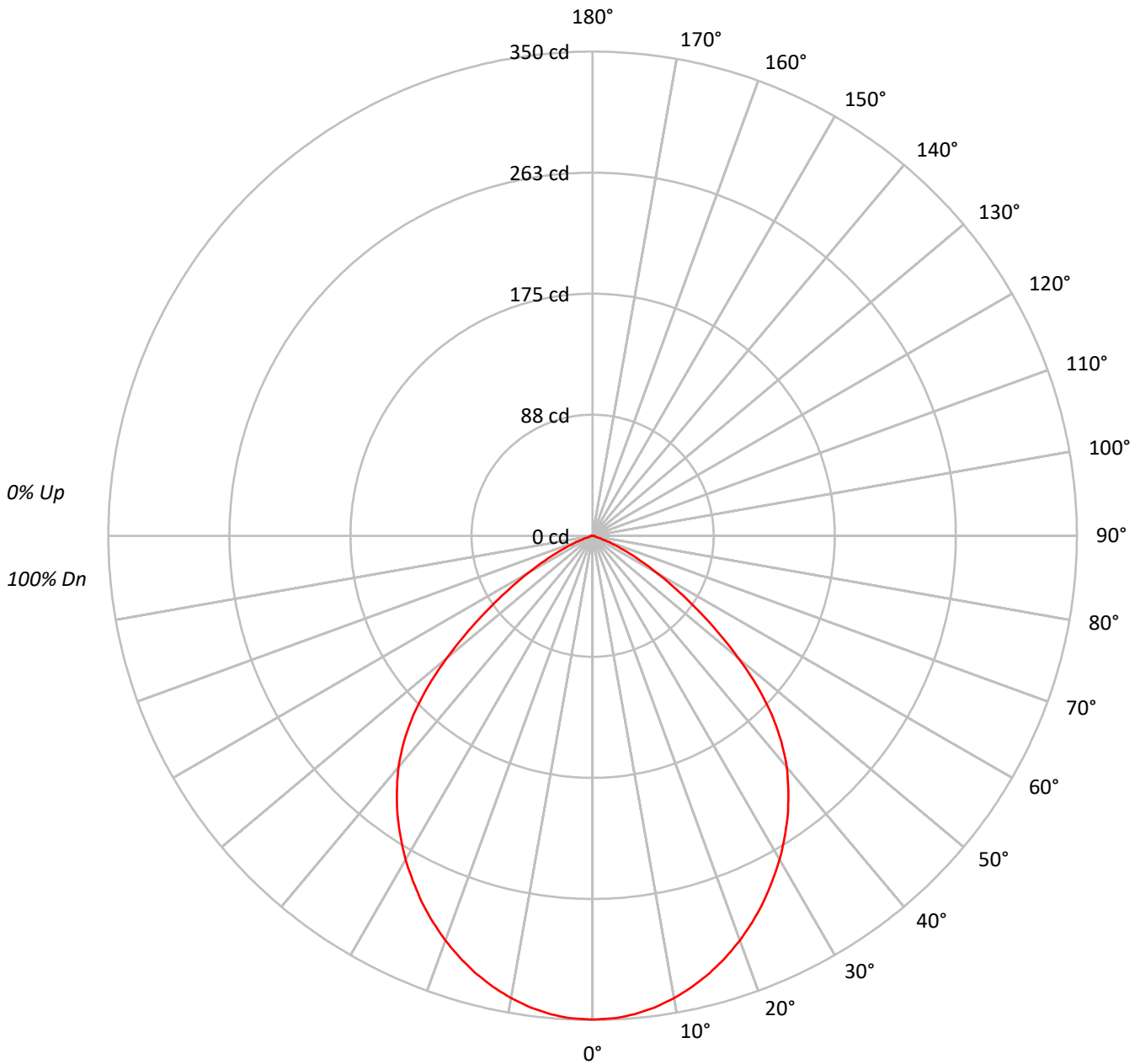
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 666.0 lumens  
Efficiency: N/A  
Efficacy: 68.0 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																	
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	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°	42962
5°	42818
10°	42340
15°	41616
20°	40686
25°	39595
30°	38344
35°	36879
40°	35010
45°	31829
50°	26280
55°	19363
60°	13145
65°	7703
70°	3053
75°	665
80°	920
85°	1551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.9	4.9
10°-20°	92.1	13.8
20°-30°	134.4	20.2
30°-40°	153.4	23.0
40°-50°	139.4	20.9
50°-60°	82.3	12.4
60°-70°	27.6	4.1
70°-80°	2.9	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°	259.4	38.9
0°-40°	412.8	62.0
0°-60°	634.5	95.3
0°-90°	666.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	666.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	350	
5°	347	33
15°	327	92
25°	292	134
35°	246	153
45°	183	139
55°	90	82
65°	26	28
75°	1	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	349.7
2.5°	349.2
5°	347.2
7.5°	343.9
10°	339.4
12.5°	333.7
15°	327.2
17.5°	319.6
20°	311.2
22.5°	302.0
25°	292.1
27.5°	281.3
30°	270.3
32.5°	258.3
35°	245.9
37.5°	232.4
40°	218.3
42.5°	201.9
45°	183.2
47.5°	161.6
50°	137.5
52.5°	113.4
55°	90.4
57.5°	70.7
60°	53.5
62.5°	38.7
65°	26.5
67.5°	16.2
70°	8.5
72.5°	3.2
75°	1.4
77.5°	1.4
80°	1.3
82.5°	1.1
85°	1.1
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)