

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: P839227

Luminaire Tested: **LD4C20D010 EU4209035 4LBPSMW**

Issue Date: 6/29/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P839227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C20D010 EU4209035 4LBPSMW  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

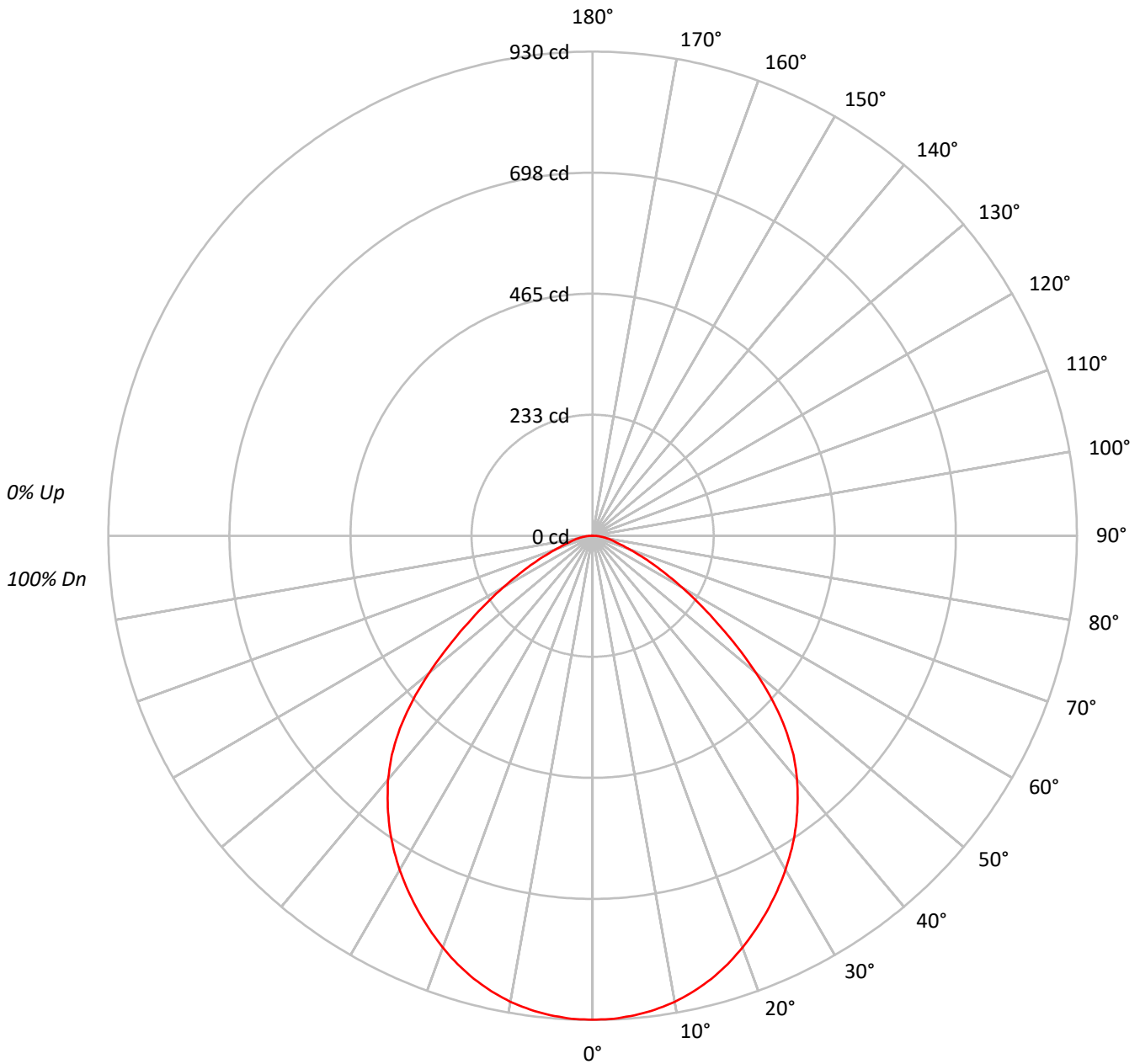
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1982.0 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
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

TEST NUMBER: P839227

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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88																			
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76																			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66																			
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58																			
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51																			
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46																			
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41																			
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37																			
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33																			
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30																			

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

	0°
0°	114192
5°	114012
10°	113384
15°	112077
20°	110042
25°	107657
30°	105103
35°	102104
40°	97988
45°	90901
50°	78304
55°	62457
60°	48625
65°	36395
70°	26401
75°	20933
80°	19597
85°	19593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.8	4.4
10°-20°	248.2	12.5
20°-30°	365.7	18.5
30°-40°	424.9	21.4
40°-50°	399.4	20.1
50°-60°	264.3	13.3
60°-70°	127.4	6.4
70°-80°	49.1	2.5
80°-90°	15.3	0.8
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°	701.6	35.4
0°-40°	1126.5	56.8
0°-60°	1790.2	90.3
0°-90°	1982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1982.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	930	
5°	924	88
15°	881	248
25°	794	366
35°	681	425
45°	523	399
55°	292	264
65°	125	127
75°	44	49
85°	14	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	929.5
2.5°	928.7
5°	924.5
7.5°	918.2
10°	908.9
12.5°	896.3
15°	881.2
17.5°	862.7
20°	841.7
22.5°	818.6
25°	794.2
27.5°	768.2
30°	740.9
32.5°	711.9
35°	680.8
37.5°	646.7
40°	611.0
42.5°	570.7
45°	523.2
47.5°	469.4
50°	409.7
52.5°	349.2
55°	291.6
57.5°	242.0
60°	197.9
62.5°	158.4
65°	125.2
67.5°	97.1
70°	73.5
72.5°	55.9
75°	44.1
77.5°	35.7
80°	27.7
82.5°	20.6
85°	13.9
87.5°	8.0
90°	0.0



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— 0°-180°







(END OF REPORT)