

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: P839194

Luminaire Tested: **LD4C10D010 EU4109030 4LBPSMW**

Issue Date: 6/29/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P839194  
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: LD4C10D010 EU4109030 4LBPSMW  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

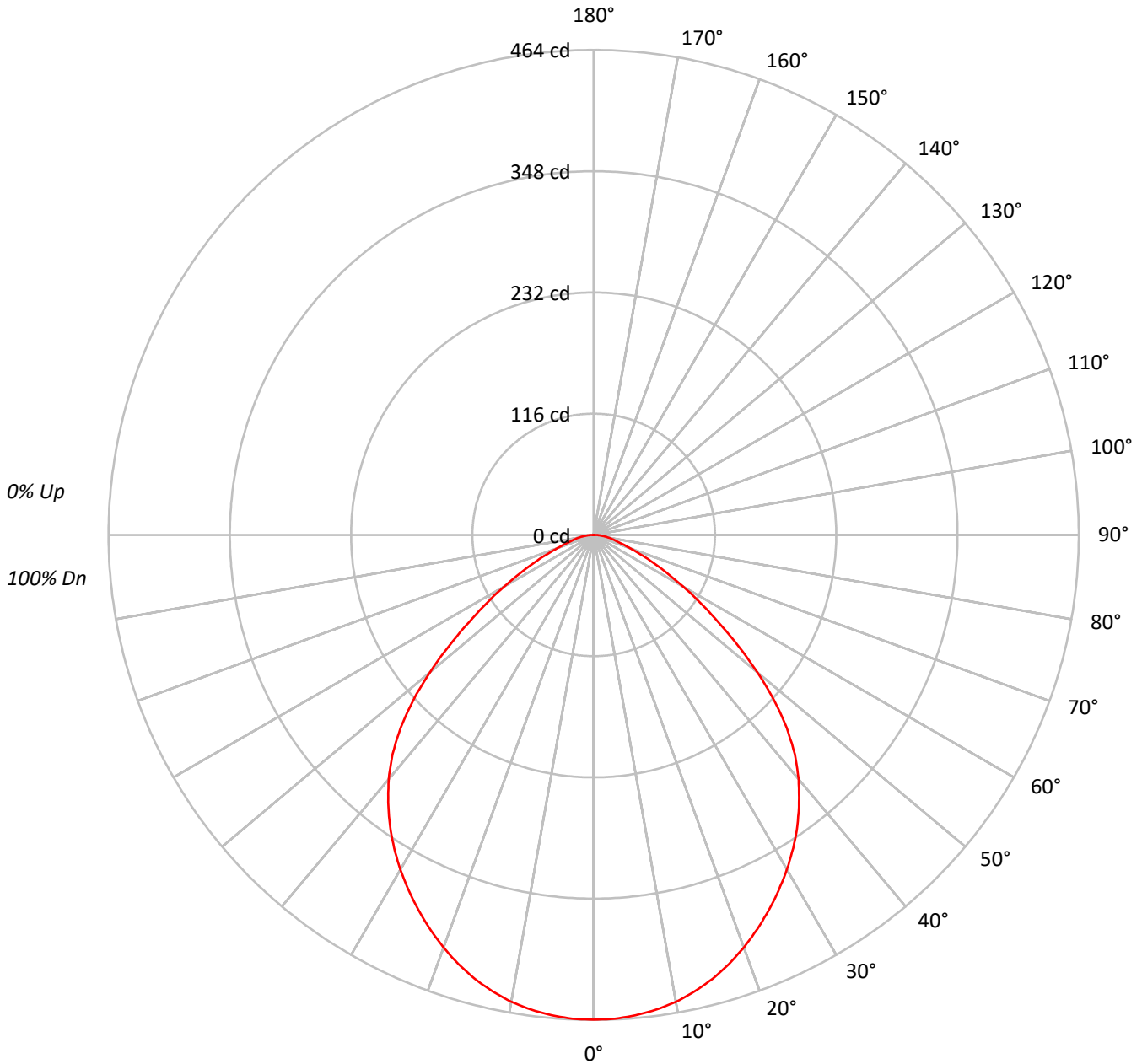
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 989.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 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): 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	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76			76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51			51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46			46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41			41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37			37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33			33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			30

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

	0°
0°	56979
5°	56889
10°	56586
15°	55924
20°	54910
25°	53720
30°	52445
35°	50947
40°	48898
45°	45364
50°	39066
55°	31164
60°	24276
65°	18169
70°	13183
75°	10443
80°	9763
85°	9726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.8	4.4
10°-20°	123.8	12.5
20°-30°	182.5	18.5
30°-40°	212.0	21.4
40°-50°	199.3	20.1
50°-60°	131.9	13.3
60°-70°	63.6	6.4
70°-80°	24.5	2.5
80°-90°	7.6	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°	350.1	35.4
0°-40°	562.1	56.8
0°-60°	893.3	90.3
0°-90°	989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	464	
5°	461	44
15°	440	124
25°	396	182
35°	340	212
45°	261	199
55°	146	132
65°	62	64
75°	22	24
85°	7	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	463.8
2.5°	463.4
5°	461.3
7.5°	458.2
10°	453.6
12.5°	447.3
15°	439.7
17.5°	430.5
20°	420.0
22.5°	408.5
25°	396.3
27.5°	383.3
30°	369.7
32.5°	355.2
35°	339.7
37.5°	322.7
40°	304.9
42.5°	284.8
45°	261.1
47.5°	234.2
50°	204.4
52.5°	174.3
55°	145.5
57.5°	120.8
60°	98.8
62.5°	79.1
65°	62.5
67.5°	48.4
70°	36.7
72.5°	27.9
75°	22.0
77.5°	17.8
80°	13.8
82.5°	10.3
85°	6.9
87.5°	4.0
90°	0.0



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— 0°-180°







(END OF REPORT)