

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: P839413

Luminaire Tested: **LD4C80D010 EU4809050 4LBPSMW**

Issue Date: 6/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P839413  
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: LD4C80D010 EU4809050 4LBPSMW  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBPS TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

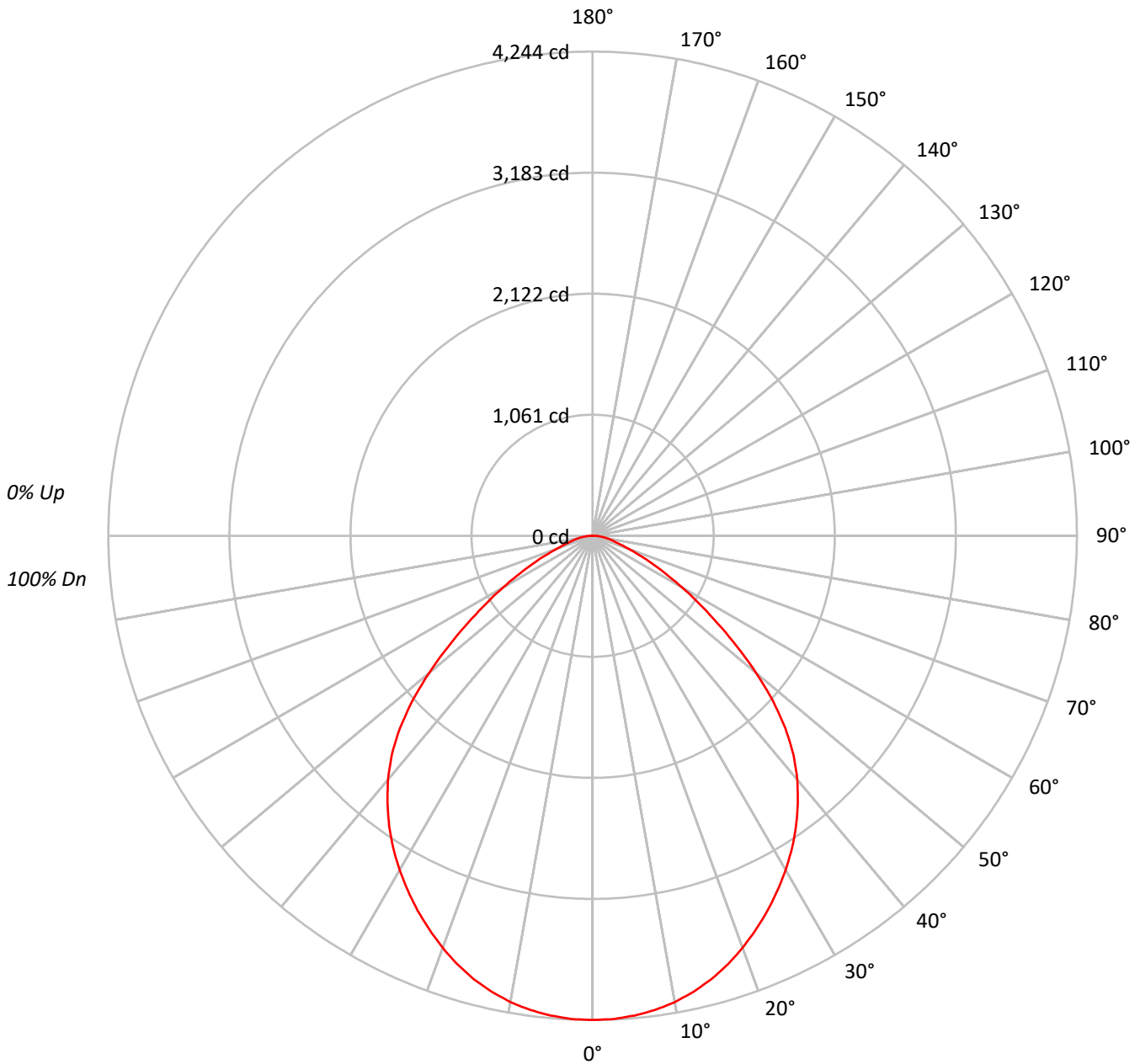
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9049.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 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): 89.5  
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	100	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88	88	88	88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66	66	66	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58	58	58	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51	51	51	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46	46	46	46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41	41	41	41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37	37	37	37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33	33	33	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30	30	30	30

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

	0°
0°	521378
5°	520533
10°	517695
15°	511700
20°	502413
25°	491532
30°	479824
35°	466142
40°	447379
45°	414998
50°	357520
55°	285192
60°	222021
65°	166191
70°	120619
75°	95646
80°	89568
85°	89227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.7	4.4
10°-20°	1133.0	12.5
20°-30°	1669.7	18.5
30°-40°	1939.7	21.4
40°-50°	1823.2	20.1
50°-60°	1206.9	13.3
60°-70°	581.5	6.4
70°-80°	224.3	2.5
80°-90°	70.0	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°	3203.5	35.4
0°-40°	5143.1	56.8
0°-60°	8173.2	90.3
0°-90°	9049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9049.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4244	
5°	4221	401
15°	4023	1133
25°	3626	1670
35°	3108	1940
45°	2389	1823
55°	1332	1207
65°	572	582
75°	202	224
85°	63	70
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4243.9
2.5°	4240.0
5°	4220.9
7.5°	4192.1
10°	4149.9
12.5°	4092.3
15°	4023.2
17.5°	3938.8
20°	3842.9
22.5°	3737.4
25°	3626.1
27.5°	3507.2
30°	3382.4
32.5°	3250.1
35°	3108.1
37.5°	2952.7
40°	2789.6
42.5°	2605.4
45°	2388.6
47.5°	2143.0
50°	1870.6
52.5°	1594.3
55°	1331.5
57.5°	1105.1
60°	903.6
62.5°	723.3
65°	571.7
67.5°	443.2
70°	335.8
72.5°	255.2
75°	201.5
77.5°	163.1
80°	126.6
82.5°	94.0
85°	63.3
87.5°	36.5
90°	0.0



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— 0°-180°







(END OF REPORT)