

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: P856782

Luminaire Tested: **LD4C10D010 EU4109050 4LBMDSWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C10D010 EU4109050 4LBMDSWMW  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

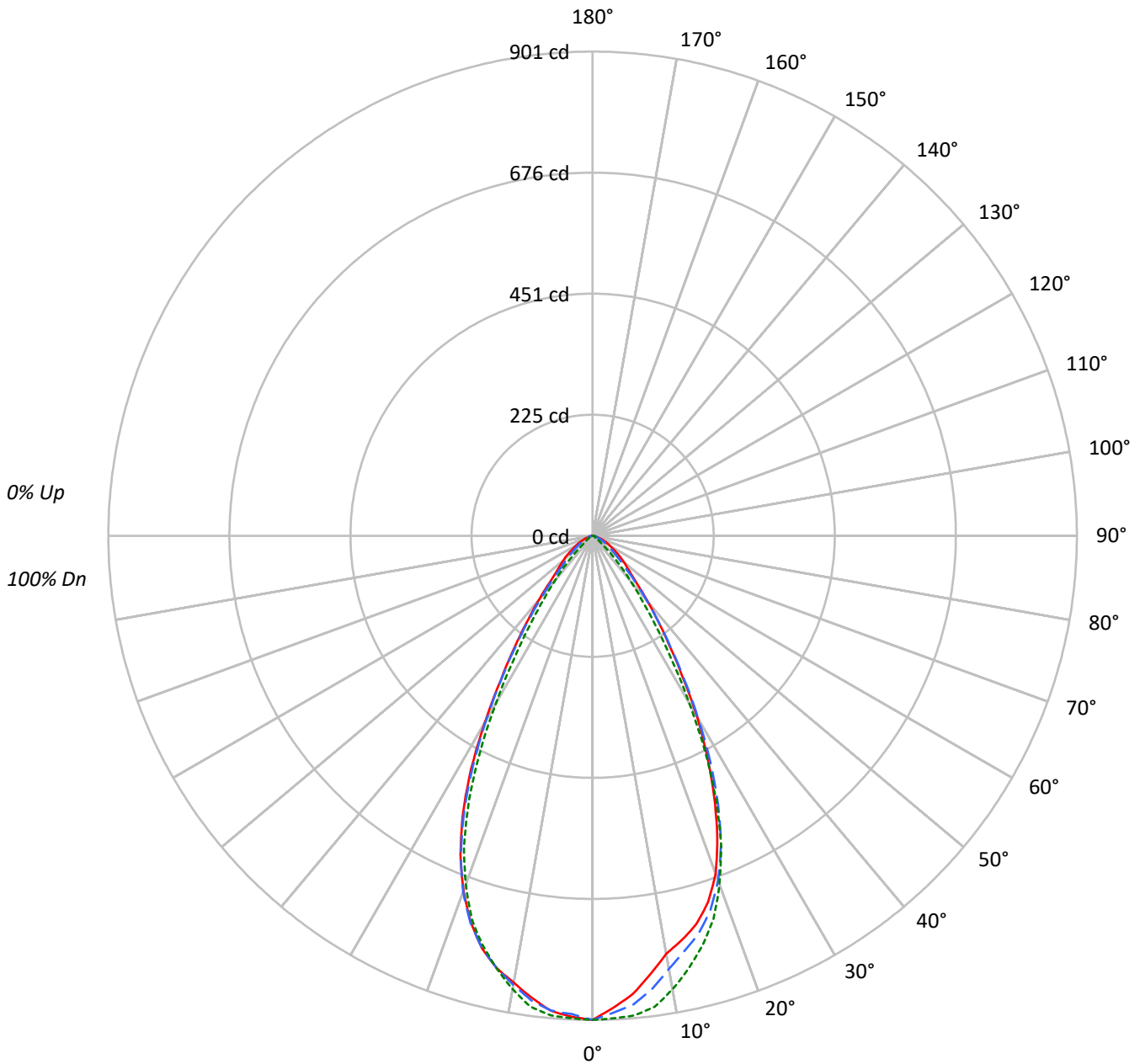
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 820.0 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9.8  
Input Voltage (V): NR  
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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

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

	0°	90°	180°
0°	110666	110666	110666
5°	105589	110485	109449
10°	98489	106897	105338
15°	95098	100414	101114
20°	87477	90209	91843
25°	72508	73823	77415
30°	55155	51012	56744
35°	37344	30565	37764
40°	25435	17513	24649
45°	17652	8826	16679
50°	14354	3593	13436
55°	11630	2228	10581
60°	9239	1720	8379
65°	7267	1424	6483
70°	5496	1257	4993
75°	3940	997	3655
80°	2971	990	2476
85°	1973	987	1973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.8	10.1
10°-20°	217.6	26.5
20°-30°	249.7	30.4
30°-40°	151.7	18.5
40°-50°	65.0	7.9
50°-60°	31.2	3.8
60°-70°	15.2	1.8
70°-80°	5.6	0.7
80°-90°	1.3	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°	550.1	67.1
0°-40°	701.7	85.6
0°-60°	797.9	97.3
0°-90°	820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	820.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	901	901	901	901	901	
5°	856	875	896	887	888	80
15°	748	765	790	794	795	208
25°	535	552	545	566	571	243
35°	249	252	204	246	252	160
45°	102	90	51	81	96	83
55°	54	40	10	36	49	49
65°	25	17	5	15	22	25
75°	8	6	2	5	8	9
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8
2.5°	879.2	888.9	888.2	896.6	898.7	896.6	891.0	896.6	895.9
5°	856.2	867.4	875.0	888.9	895.9	894.5	886.8	888.2	887.5
7.5°	822.9	836.8	850.0	870.8	884.1	883.4	872.2	870.2	867.4
10°	789.5	802.7	818.0	839.5	856.9	859.7	848.6	845.8	844.4
12.5°	770.0	780.4	790.9	809.6	824.9	830.5	824.2	824.9	824.2
15°	747.7	758.2	765.1	779.0	789.5	797.1	794.3	798.5	795.0
17.5°	714.3	726.9	729.6	740.1	747.7	752.6	755.4	759.6	754.0
20°	669.1	678.9	682.4	686.5	690.0	696.3	704.6	708.8	702.5
22.5°	605.8	624.6	623.9	621.8	625.3	627.4	640.6	647.6	642.7
25°	534.9	554.4	552.3	543.9	544.6	548.8	565.5	574.5	571.1
27.5°	460.5	478.5	473.7	457.7	453.5	459.8	481.3	491.8	489.7
30°	388.8	400.6	393.0	364.5	359.6	367.3	395.1	405.5	400.0
32.5°	311.6	320.7	317.2	282.4	274.1	281.7	314.4	324.1	317.9
35°	249.0	257.4	252.5	211.5	203.8	212.1	246.2	257.4	251.8
37.5°	199.6	205.9	199.6	155.8	148.9	157.2	189.9	204.5	197.5
40°	158.6	163.5	155.1	114.8	109.2	113.4	144.0	158.6	153.7
42.5°	125.2	128.7	119.6	84.2	77.9	83.5	108.5	121.7	118.9
45°	101.6	101.6	90.4	58.4	50.8	56.3	81.4	95.3	96.0
47.5°	86.9	84.9	70.9	39.0	29.2	36.9	64.7	79.3	81.4
50°	75.1	72.3	58.4	28.5	18.8	26.4	53.6	68.2	70.3
52.5°	64.7	62.6	48.7	22.3	13.2	20.2	45.2	59.1	61.2
55°	54.3	52.9	40.3	17.4	10.4	15.3	36.2	48.0	49.4
57.5°	44.5	42.4	32.7	14.6	8.3	12.5	29.9	39.6	41.0
60°	37.6	35.5	26.4	11.8	7.0	9.7	24.3	32.7	34.1
62.5°	31.3	29.2	21.6	9.7	5.6	8.3	19.5	26.4	27.8
65°	25.0	23.6	16.7	7.7	4.9	6.3	15.3	20.9	22.3
67.5°	20.2	18.8	13.2	6.3	4.2	4.9	11.8	16.7	18.1
70°	15.3	13.9	9.7	4.9	3.5	4.2	9.0	12.5	13.9
72.5°	11.1	10.4	7.7	4.2	2.8	3.5	6.3	9.0	10.4
75°	8.3	7.7	5.6	2.8	2.1	2.8	4.9	7.0	7.7
77.5°	5.6	5.6	4.2	2.1	2.1	2.1	3.5	4.9	4.9
80°	4.2	3.5	2.8	1.4	1.4	1.4	2.1	3.5	3.5
82.5°	2.8	2.1	2.1	1.4	1.4	1.4	1.4	2.1	2.1
85°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)