

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: P859449

Luminaire Tested: **LD4C70D010 EU4709030 4LBMDDWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859449  
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: LD4C70D010 EU4709030 4LBMDDWLI  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

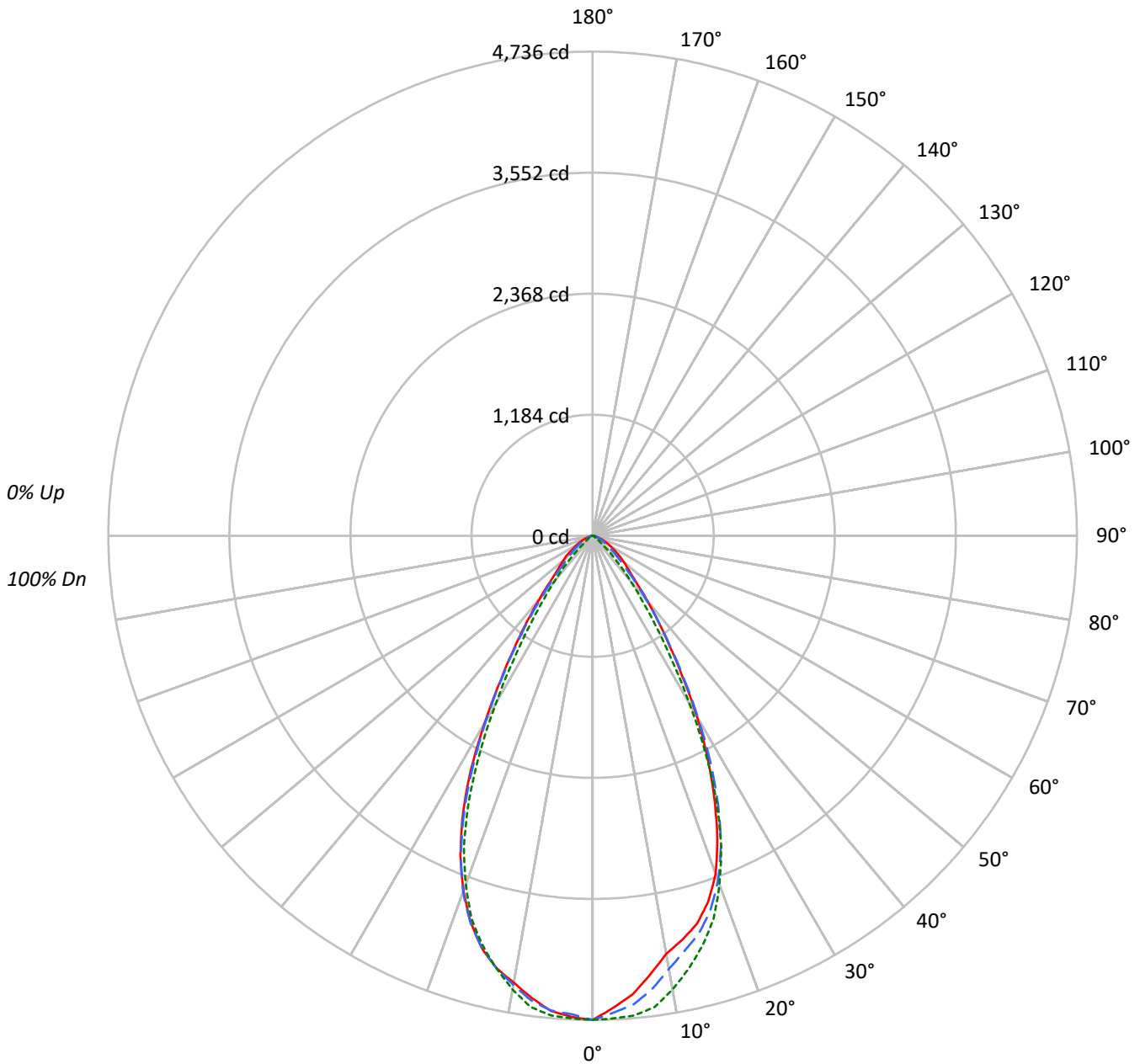
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4311.0 lumens  
Efficiency: N/A  
Efficacy: 55.3 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): 78  
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

TEST NUMBER: P859449

CATALOG NUMBER: LD4C70D010 EU4709030 4LBMDDWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P859449

CATALOG NUMBER: LD4C70D010 EU4709030 4LBMDDWLI

**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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72				
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67				
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58				
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55				
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51				
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48				

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

	0°	90°	180°
0°	581785	581785	581785
5°	555137	580850	575436
10°	517769	562018	553809
15°	499986	527891	531605
20°	459923	474265	482867
25°	381191	388131	406960
30°	289988	268199	298287
35°	196334	160685	198539
40°	133720	92071	129614
45°	92760	46371	87670
50°	75476	18864	70583
55°	61087	11759	55603
60°	48527	8993	44031
65°	38256	7442	34011
70°	28880	6573	26257
75°	20838	5221	19082
80°	15494	5165	12947
85°	10290	5215	10290



TEST NUMBER: P859449

CATALOG NUMBER: LD4C70D010 EU4709030 4LBMDDWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.4	10.1
10°-20°	1144.0	26.5
20°-30°	1312.5	30.4
30°-40°	797.3	18.5
40°-50°	341.7	7.9
50°-60°	163.9	3.8
60°-70°	79.7	1.8
70°-80°	29.6	0.7
80°-90°	6.8	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°	2891.9	67.1
0°-40°	3689.3	85.6
0°-60°	4194.9	97.3
0°-90°	4311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4311.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4736	4736	4736	4736	4736	
5°	4502	4600	4710	4662	4666	418
15°	3931	4022	4150	4176	4180	1094
25°	2812	2904	2863	2973	3002	1276
35°	1309	1327	1071	1294	1324	839
45°	534	475	267	428	505	434
55°	285	212	55	190	260	257
65°	132	88	26	80	117	134
75°	44	29	11	26	40	48
85°	7	7	4	4	7	10
90°	0	0	0	0	0	



TEST NUMBER: P859449

CATALOG NUMBER: LD4C70D010 EU4709030 4LBMDDWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4735.6	4735.6	4735.6	4735.6	4735.6	4735.6	4735.6	4735.6	4735.6
2.5°	4622.2	4673.4	4669.7	4713.6	4724.6	4713.6	4684.4	4713.6	4710.0
5°	4501.5	4560.0	4600.3	4673.4	4710.0	4702.7	4662.4	4669.7	4666.1
7.5°	4326.0	4399.1	4468.6	4578.3	4647.8	4644.2	4585.6	4574.7	4560.0
10°	4150.5	4220.0	4300.4	4413.8	4505.2	4519.8	4461.3	4446.7	4439.4
12.5°	4048.1	4102.9	4157.8	4256.5	4337.0	4366.2	4333.3	4337.0	4333.3
15°	3931.1	3985.9	4022.5	4095.6	4150.5	4190.7	4176.1	4198.0	4179.7
17.5°	3755.5	3821.4	3836.0	3890.8	3931.1	3956.7	3971.3	3993.2	3964.0
20°	3517.9	3569.0	3587.3	3609.3	3627.6	3660.5	3704.4	3726.3	3693.4
22.5°	3185.1	3283.8	3280.2	3269.2	3287.5	3298.4	3367.9	3404.5	3378.9
25°	2812.1	2914.5	2903.5	2859.6	2863.3	2885.2	2973.0	3020.5	3002.2
27.5°	2420.8	2515.9	2490.3	2406.2	2384.2	2417.2	2530.5	2585.4	2574.4
30°	2044.2	2106.3	2066.1	1916.2	1890.6	1930.8	2077.1	2131.9	2102.7
32.5°	1638.3	1685.8	1667.5	1484.7	1440.8	1481.0	1652.9	1704.1	1671.2
35°	1309.1	1353.0	1327.4	1111.7	1071.4	1115.3	1294.5	1353.0	1323.8
37.5°	1049.5	1082.4	1049.5	819.1	782.6	826.4	998.3	1075.1	1038.5
40°	833.8	859.4	815.5	603.4	574.1	596.1	757.0	833.8	808.2
42.5°	658.2	676.5	629.0	442.5	409.6	438.8	570.5	639.9	625.3
45°	533.9	533.9	475.4	307.2	266.9	296.2	427.8	501.0	504.6
47.5°	457.1	446.1	373.0	204.8	153.6	193.8	340.1	416.9	427.8
50°	394.9	380.3	307.2	149.9	98.7	139.0	281.6	358.4	369.3
52.5°	340.1	329.1	256.0	117.0	69.5	106.0	237.7	310.8	321.8
55°	285.2	277.9	212.1	91.4	54.9	80.4	190.2	252.3	259.6
57.5°	234.0	223.1	171.9	76.8	43.9	65.8	157.2	208.4	215.8
60°	197.5	186.5	139.0	62.2	36.6	51.2	128.0	171.9	179.2
62.5°	164.6	153.6	113.4	51.2	29.3	43.9	102.4	139.0	146.3
65°	131.6	124.3	87.8	40.2	25.6	32.9	80.4	109.7	117.0
67.5°	106.0	98.7	69.5	32.9	21.9	25.6	62.2	87.8	95.1
70°	80.4	73.1	51.2	25.6	18.3	21.9	47.5	65.8	73.1
72.5°	58.5	54.9	40.2	21.9	14.6	18.3	32.9	47.5	54.9
75°	43.9	40.2	29.3	14.6	11.0	14.6	25.6	36.6	40.2
77.5°	29.3	29.3	21.9	11.0	11.0	11.0	18.3	25.6	25.6
80°	21.9	18.3	14.6	7.3	7.3	7.3	11.0	18.3	18.3
82.5°	14.6	11.0	11.0	7.3	7.3	7.3	7.3	11.0	11.0
85°	7.3	7.3	7.3	3.7	3.7	3.7	3.7	7.3	7.3
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)