

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: P858970

Luminaire Tested: **LD4C50D010 EU4509030 4LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P858970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C50D010 EU4509030 4LBMDSWLI  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

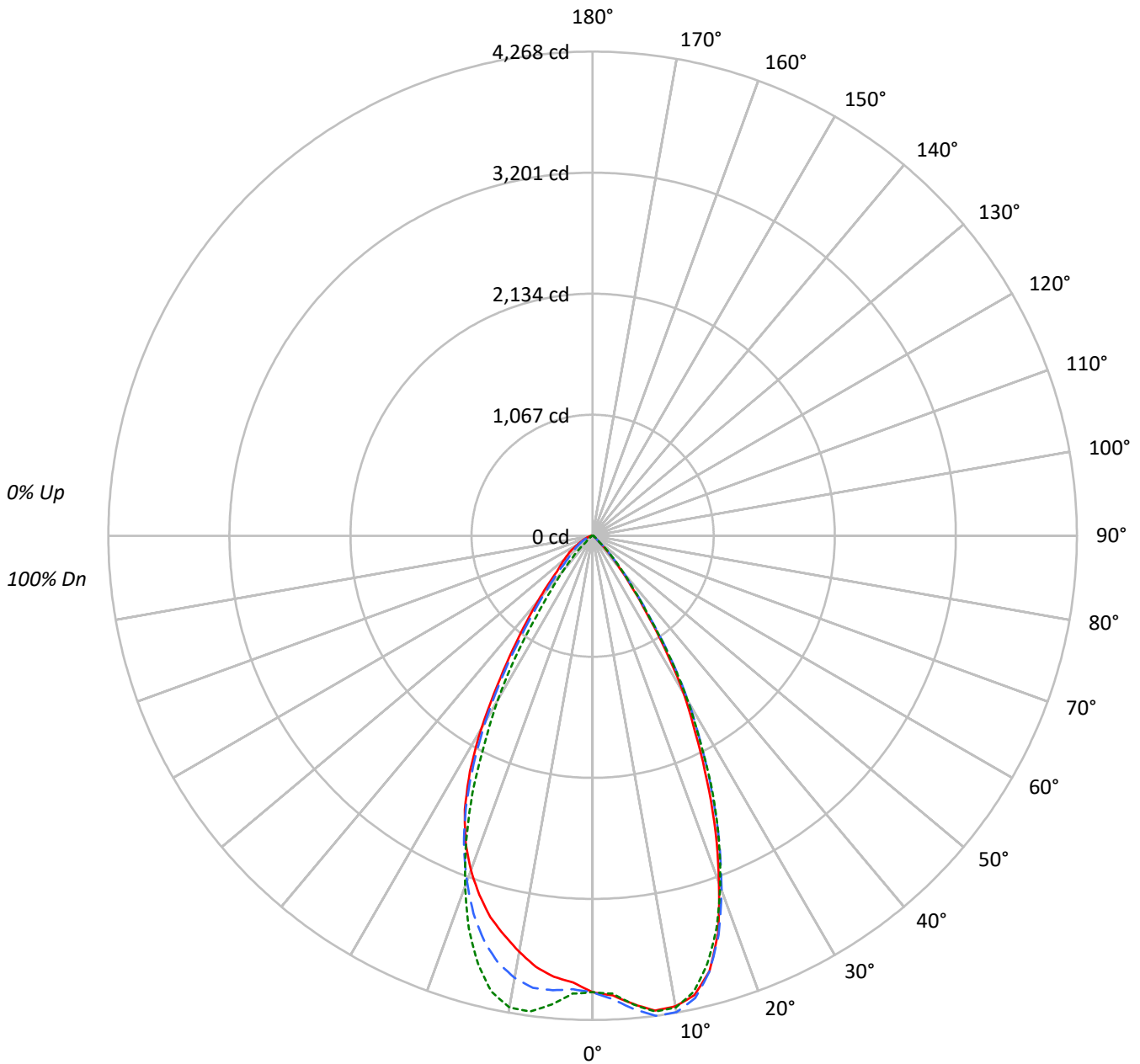
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3577.0 lumens  
Efficiency: N/A  
Efficacy: 61.3 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
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								
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93								
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87								
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80								
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75								
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70								
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65								
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61								
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58								
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54								
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51								

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

	0°	90°	180°
0°	494276	494276	494276
5°	511111	511444	481230
10°	525267	526639	464464
15°	505417	496654	442713
20°	425552	429513	410073
25°	323269	339698	360966
30°	227357	236734	277760
35°	122666	128440	183781
40°	59178	65368	119238
45°	21057	28702	77506
50°	7894	9996	62097
55°	5890	7068	51320
60°	4742	5406	37225
65°	4012	4796	28808
70°	2981	3951	22737
75°	2611	3940	16993
80°	1981	3891	11674
85°	0	3947	7753



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.7	11.0
10°-20°	1056.8	29.5
20°-30°	1146.3	32.0
30°-40°	636.0	17.8
40°-50°	202.6	5.7
50°-60°	81.6	2.3
60°-70°	41.3	1.2
70°-80°	17.1	0.5
80°-90°	3.5	0.1
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°	2594.8	72.5
0°-40°	3230.9	90.3
0°-60°	3515.1	98.3
0°-90°	3577.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3577.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4023	4023	4023	4023	4023	
5°	4144	4188	4147	4021	3902	398
15°	3974	3976	3905	3696	3481	1087
25°	2385	2484	2506	2641	2663	1089
35°	818	884	856	1132	1225	543
45°	121	143	165	369	446	116
55°	28	28	33	176	240	25
65°	14	14	16	80	99	14
75°	6	6	8	28	36	7
85°	0	0	3	6	6	0
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°	4023.3	4023.3	4023.3	4023.3	4023.3	4023.3	4023.3	4023.3	4023.3
2.5°	4056.4	4092.2	4089.4	4061.9	4039.8	4031.6	4001.3	3965.5	3940.7
5°	4144.5	4188.5	4188.5	4166.5	4147.2	4100.4	4020.6	3943.5	3902.2
7.5°	4221.6	4265.7	4268.4	4251.9	4229.9	4152.7	4020.6	3896.6	3833.3
10°	4210.6	4243.6	4262.9	4246.4	4221.6	4119.7	3957.2	3792.0	3723.2
12.5°	4147.2	4177.5	4174.8	4150.0	4117.0	4012.3	3852.6	3681.8	3604.7
15°	3973.8	3990.3	3976.5	3949.0	3904.9	3825.0	3695.6	3549.7	3480.8
17.5°	3673.6	3695.6	3690.1	3646.0	3629.5	3552.4	3491.8	3378.9	3318.3
20°	3255.0	3323.9	3323.9	3290.8	3285.3	3233.0	3241.2	3180.7	3136.6
22.5°	2833.7	2894.3	2913.5	2899.8	2910.8	2886.0	2963.1	2946.6	2924.5
25°	2384.8	2445.4	2483.9	2478.4	2506.0	2506.0	2640.9	2674.0	2662.9
27.5°	1963.5	2021.3	2065.4	2076.4	2059.9	2090.1	2274.6	2340.7	2340.7
30°	1602.7	1649.5	1690.8	1690.8	1668.8	1690.8	1886.4	1963.5	1958.0
32.5°	1195.2	1247.5	1286.0	1280.5	1261.2	1291.5	1498.1	1575.2	1555.9
35°	817.9	853.7	884.0	873.0	856.4	906.0	1131.8	1228.2	1225.4
37.5°	553.5	586.6	605.8	597.6	592.1	649.9	856.4	963.8	958.3
40°	369.0	391.0	404.8	402.1	407.6	457.1	644.4	743.5	743.5
42.5°	234.1	247.8	261.6	261.6	275.4	327.7	490.2	575.5	575.5
45°	121.2	129.4	143.2	151.5	165.2	220.3	369.0	440.6	446.1
47.5°	57.8	60.6	66.1	68.8	79.9	137.7	283.6	360.7	377.3
50°	41.3	44.1	44.1	44.1	52.3	104.6	239.6	311.2	324.9
52.5°	33.0	33.0	33.0	35.8	41.3	88.1	206.5	269.9	280.9
55°	27.5	27.5	27.5	27.5	33.0	71.6	176.2	231.3	239.6
57.5°	22.0	22.0	22.0	22.0	27.5	57.8	146.0	184.5	187.3
60°	19.3	19.3	19.3	19.3	22.0	49.6	118.4	151.5	151.5
62.5°	16.5	16.5	16.5	16.5	19.3	41.3	99.1	123.9	121.2
65°	13.8	13.8	13.8	13.8	16.5	33.0	79.9	99.1	99.1
67.5°	11.0	11.0	11.0	11.0	13.8	27.5	63.3	79.9	79.9
70°	8.3	8.3	8.3	8.3	11.0	22.0	52.3	63.3	63.3
72.5°	8.3	8.3	8.3	8.3	8.3	16.5	38.6	49.6	46.8
75°	5.5	5.5	5.5	5.5	8.3	13.8	27.5	35.8	35.8
77.5°	5.5	5.5	5.5	5.5	5.5	11.0	22.0	24.8	24.8
80°	2.8	2.8	2.8	2.8	5.5	8.3	13.8	16.5	16.5
82.5°	0.0	2.8	0.0	2.8	2.8	5.5	11.0	11.0	11.0
85°	0.0	0.0	0.0	0.0	2.8	2.8	5.5	8.3	5.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8
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)