

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: P858973

Luminaire Tested: **LD4C50D010 EU4509030 4LBMDSWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P858973  
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: LD4C50D010 EU4509030 4LBMDSWWMH  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

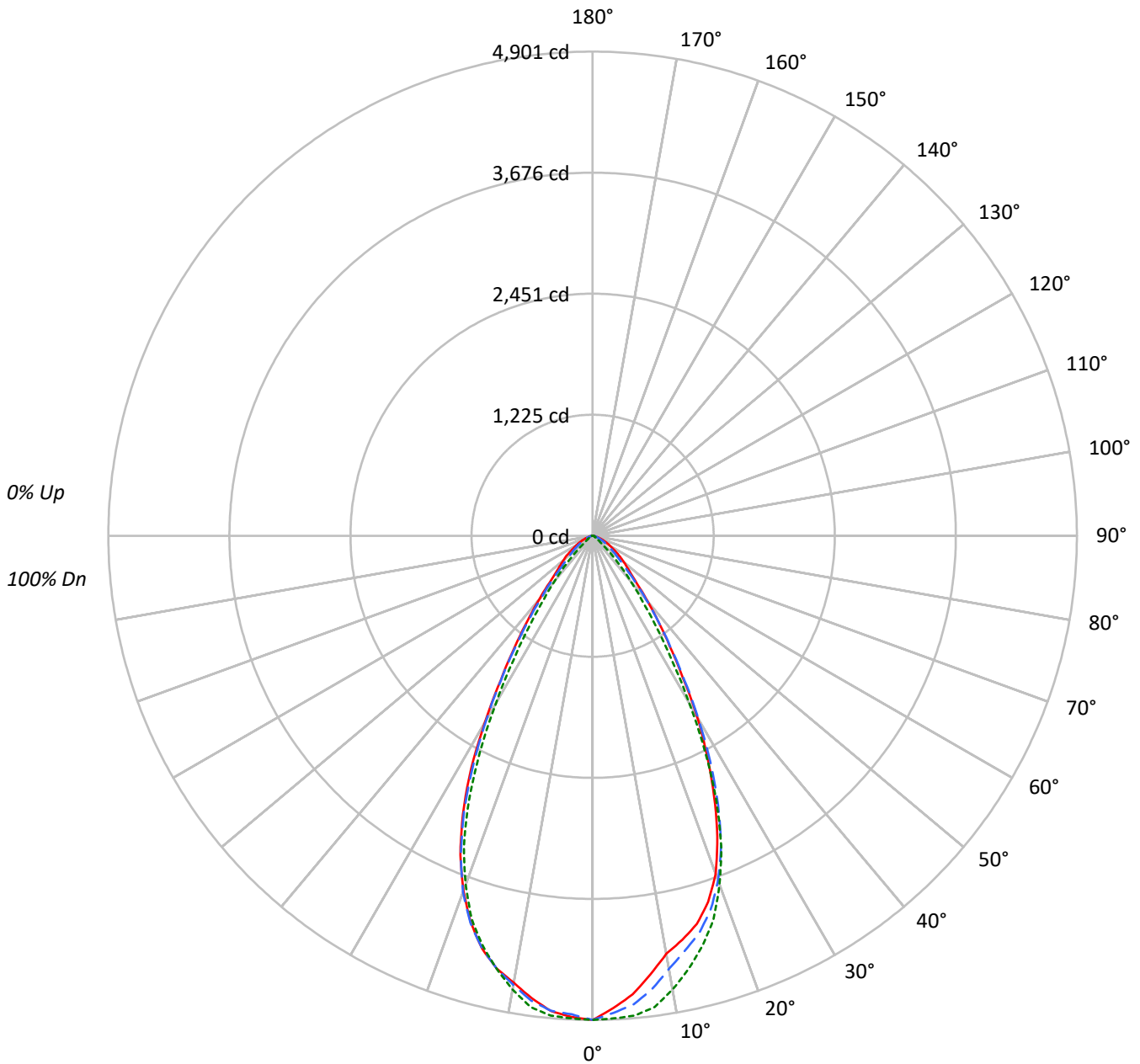
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4462.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 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): 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				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°	602154	602154	602154
5°	574585	601186	595587
10°	535908	581703	573208
15°	517500	546384	550225
20°	476030	490869	499772
25°	394543	401727	421220
30°	300145	277590	308728
35°	203218	166324	205483
40°	138403	95294	134153
45°	96009	48005	90745
50°	78132	19533	73067
55°	63228	12166	57552
60°	50223	9288	45579
65°	39622	7703	35203
70°	29921	6789	27191
75°	21550	5411	19746
80°	16060	5377	13371
85°	10713	5356	10713



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.6	10.1
10°-20°	1184.1	26.5
20°-30°	1358.5	30.4
30°-40°	825.3	18.5
40°-50°	353.7	7.9
50°-60°	169.7	3.8
60°-70°	82.5	1.8
70°-80°	30.6	0.7
80°-90°	7.1	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°	2993.2	67.1
0°-40°	3818.5	85.6
0°-60°	4341.8	97.3
0°-90°	4462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4462.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4901	4901	4901	4901	4901	
5°	4659	4761	4875	4826	4830	433
15°	4069	4163	4296	4322	4326	1133
25°	2911	3005	2964	3077	3107	1320
35°	1355	1374	1109	1340	1370	868
45°	553	492	276	443	522	449
55°	295	220	57	197	269	266
65°	136	91	26	83	121	138
75°	45	30	11	26	42	50
85°	8	8	4	4	8	10
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°	4901.4	4901.4	4901.4	4901.4	4901.4	4901.4	4901.4	4901.4	4901.4
2.5°	4784.1	4837.1	4833.3	4878.7	4890.1	4878.7	4848.5	4878.7	4874.9
5°	4659.2	4719.8	4761.4	4837.1	4874.9	4867.4	4825.7	4833.3	4829.5
7.5°	4477.5	4553.2	4625.1	4738.7	4810.6	4806.8	4746.3	4734.9	4719.8
10°	4295.9	4367.8	4451.0	4568.4	4663.0	4678.1	4617.6	4602.4	4594.9
12.5°	4189.9	4246.7	4303.4	4405.6	4488.9	4519.2	4485.1	4488.9	4485.1
15°	4068.8	4125.5	4163.4	4239.1	4295.9	4337.5	4322.4	4345.1	4326.1
17.5°	3887.1	3955.2	3970.4	4027.1	4068.8	4095.3	4110.4	4133.1	4102.8
20°	3641.1	3694.1	3713.0	3735.7	3754.6	3788.7	3834.1	3856.8	3822.7
22.5°	3296.6	3398.8	3395.1	3383.7	3402.6	3414.0	3485.9	3523.7	3497.2
25°	2910.6	3016.6	3005.2	2959.8	2963.6	2986.3	3077.1	3126.3	3107.4
27.5°	2505.6	2604.0	2577.5	2490.5	2467.8	2501.8	2619.1	2675.9	2664.6
30°	2115.8	2180.1	2138.5	1983.3	1956.8	1998.4	2149.8	2206.6	2176.3
32.5°	1695.6	1744.8	1725.9	1536.7	1491.2	1532.9	1710.8	1763.8	1729.7
35°	1355.0	1400.4	1373.9	1150.6	1109.0	1154.4	1339.9	1400.4	1370.1
37.5°	1086.3	1120.3	1086.3	847.8	810.0	855.4	1033.3	1112.8	1074.9
40°	863.0	889.5	844.0	624.5	594.2	616.9	783.5	863.0	836.5
42.5°	681.3	700.2	651.0	458.0	423.9	454.2	590.4	662.4	647.2
45°	552.6	552.6	492.0	317.9	276.3	306.6	442.8	518.5	522.3
47.5°	473.1	461.8	386.1	212.0	159.0	200.6	352.0	431.5	442.8
50°	408.8	393.6	317.9	155.2	102.2	143.8	291.4	370.9	382.3
52.5°	352.0	340.6	264.9	121.1	71.9	109.8	246.0	321.7	333.1
55°	295.2	287.7	219.5	94.6	56.8	83.3	196.8	261.2	268.7
57.5°	242.2	230.9	177.9	79.5	45.4	68.1	162.8	215.7	223.3
60°	204.4	193.0	143.8	64.3	37.8	53.0	132.5	177.9	185.5
62.5°	170.3	159.0	117.3	53.0	30.3	45.4	106.0	143.8	151.4
65°	136.3	128.7	90.8	41.6	26.5	34.1	83.3	113.5	121.1
67.5°	109.8	102.2	71.9	34.1	22.7	26.5	64.3	90.8	98.4
70°	83.3	75.7	53.0	26.5	18.9	22.7	49.2	68.1	75.7
72.5°	60.6	56.8	41.6	22.7	15.1	18.9	34.1	49.2	56.8
75°	45.4	41.6	30.3	15.1	11.4	15.1	26.5	37.8	41.6
77.5°	30.3	30.3	22.7	11.4	11.4	11.4	18.9	26.5	26.5
80°	22.7	18.9	15.1	7.6	7.6	7.6	11.4	18.9	18.9
82.5°	15.1	11.4	11.4	7.6	7.6	7.6	7.6	11.4	11.4
85°	7.6	7.6	7.6	3.8	3.8	3.8	3.8	7.6	7.6
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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)