

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: P859232

Luminaire Tested: **LD4C60D010 EU4609040 4LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859232  
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: LD4C60D010 EU4609040 4LBMDSWLI  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

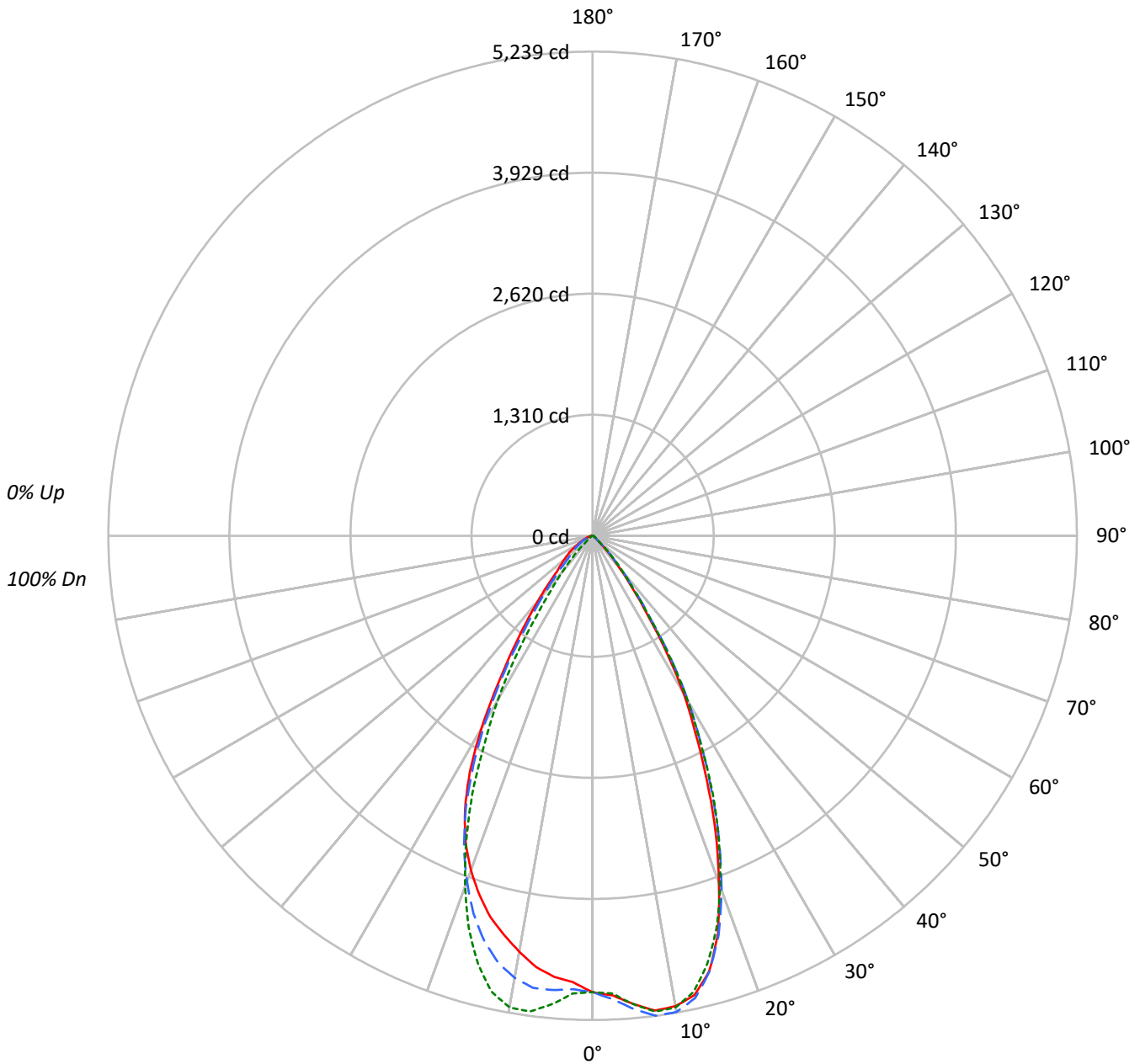
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4390.0 lumens  
Efficiency: N/A  
Efficacy: 61.0 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): 72  
Input Voltage (V): NR  
Input Current (Ain): 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: P859232

CATALOG NUMBER: LD4C60D010 EU4609040 4LBMDSWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P859232

CATALOG NUMBER: LD4C60D010 EU4609040 4LBMDSWLI

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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°	606626	606626	606626
5°	627281	627688	590605
10°	644651	646335	570027
15°	620280	609532	543344
20°	522272	527135	503276
25°	396739	416896	443017
30°	279037	290541	340887
35°	150546	157640	225565
40°	72633	80219	146341
45°	25835	35235	95123
50°	9690	12270	76221
55°	7240	8696	62971
60°	5823	6634	45677
65°	4913	5901	35378
70°	3628	4849	27910
75°	3228	4794	20838
80°	2405	4811	14362
85°	0	4793	9585



TEST NUMBER: P859232

CATALOG NUMBER: LD4C60D010 EU4609040 4LBMDSWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.8	11.0
10°-20°	1297.0	29.5
20°-30°	1406.9	32.0
30°-40°	780.6	17.8
40°-50°	248.6	5.7
50°-60°	100.2	2.3
60°-70°	50.7	1.2
70°-80°	20.9	0.5
80°-90°	4.3	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°	3184.6	72.5
0°-40°	3965.2	90.3
0°-60°	4314.0	98.3
0°-90°	4390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4390.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4938	4938	4938	4938	4938	
5°	5086	5140	5090	4934	4789	489
15°	4877	4880	4792	4536	4272	1334
25°	2927	3048	3076	3241	3268	1337
35°	1004	1085	1051	1389	1504	666
45°	149	176	203	453	548	143
55°	34	34	41	216	294	31
65°	17	17	20	98	122	17
75°	7	7	10	34	44	8
85°	0	0	3	7	7	0
90°	0	0	0	0	0	



TEST NUMBER: P859232

CATALOG NUMBER: LD4C60D010 EU4609040 4LBMSWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4937.8	4937.8	4937.8	4937.8	4937.8	4937.8	4937.8	4937.8	4937.8
2.5°	4978.3	5022.3	5018.9	4985.1	4958.0	4947.9	4910.7	4866.8	4836.4
5°	5086.5	5140.5	5140.5	5113.5	5089.8	5032.4	4934.4	4839.8	4789.1
7.5°	5181.1	5235.2	5238.6	5218.3	5191.2	5096.6	4934.4	4782.3	4704.6
10°	5167.6	5208.1	5231.8	5211.5	5181.1	5056.1	4856.6	4653.9	4569.4
12.5°	5089.8	5127.0	5123.6	5093.2	5052.7	4924.2	4728.2	4518.7	4424.0
15°	4876.9	4897.2	4880.3	4846.5	4792.4	4694.4	4535.6	4356.5	4272.0
17.5°	4508.5	4535.6	4528.8	4474.7	4454.5	4359.8	4285.5	4146.9	4072.6
20°	3994.8	4079.3	4079.3	4038.8	4032.0	3967.8	3977.9	3903.6	3849.5
22.5°	3477.7	3552.1	3575.7	3558.8	3572.4	3541.9	3636.6	3616.3	3589.3
25°	2926.8	3001.2	3048.5	3041.7	3075.5	3075.5	3241.1	3281.7	3268.2
27.5°	2409.7	2480.7	2534.8	2548.3	2528.0	2565.2	2791.6	2872.8	2872.8
30°	1967.0	2024.4	2075.1	2075.1	2048.1	2075.1	2315.1	2409.7	2403.0
32.5°	1466.8	1531.0	1578.3	1571.6	1547.9	1585.1	1838.6	1933.2	1909.5
35°	1003.8	1047.7	1084.9	1071.4	1051.1	1111.9	1389.1	1507.4	1504.0
37.5°	679.3	719.9	743.5	733.4	726.6	797.6	1051.1	1182.9	1176.1
40°	452.9	479.9	496.8	493.4	500.2	561.0	790.9	912.5	912.5
42.5°	287.3	304.2	321.1	321.1	338.0	402.2	601.6	706.4	706.4
45°	148.7	158.8	175.7	185.9	202.8	270.4	452.9	540.8	547.5
47.5°	71.0	74.4	81.1	84.5	98.0	169.0	348.1	442.7	463.0
50°	50.7	54.1	54.1	54.1	64.2	128.4	294.0	381.9	398.8
52.5°	40.6	40.6	40.6	43.9	50.7	108.2	253.5	331.2	344.7
55°	33.8	33.8	33.8	33.8	40.6	87.9	216.3	283.9	294.0
57.5°	27.0	27.0	27.0	27.0	33.8	71.0	179.1	226.4	229.8
60°	23.7	23.7	23.7	23.7	27.0	60.8	145.3	185.9	185.9
62.5°	20.3	20.3	20.3	20.3	23.7	50.7	121.7	152.1	148.7
65°	16.9	16.9	16.9	16.9	20.3	40.6	98.0	121.7	121.7
67.5°	13.5	13.5	13.5	13.5	16.9	33.8	77.7	98.0	98.0
70°	10.1	10.1	10.1	10.1	13.5	27.0	64.2	77.7	77.7
72.5°	10.1	10.1	10.1	10.1	10.1	20.3	47.3	60.8	57.5
75°	6.8	6.8	6.8	6.8	10.1	16.9	33.8	43.9	43.9
77.5°	6.8	6.8	6.8	6.8	6.8	13.5	27.0	30.4	30.4
80°	3.4	3.4	3.4	3.4	6.8	10.1	16.9	20.3	20.3
82.5°	0.0	3.4	0.0	3.4	3.4	6.8	13.5	13.5	13.5
85°	0.0	0.0	0.0	0.0	3.4	3.4	6.8	10.1	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
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)