

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: P859212

Luminaire Tested: **LD4C60D010 EU4609035 4LBMDSWMW**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P859212  
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: LD4C60D010 EU4609035 4LBMDSWMW  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

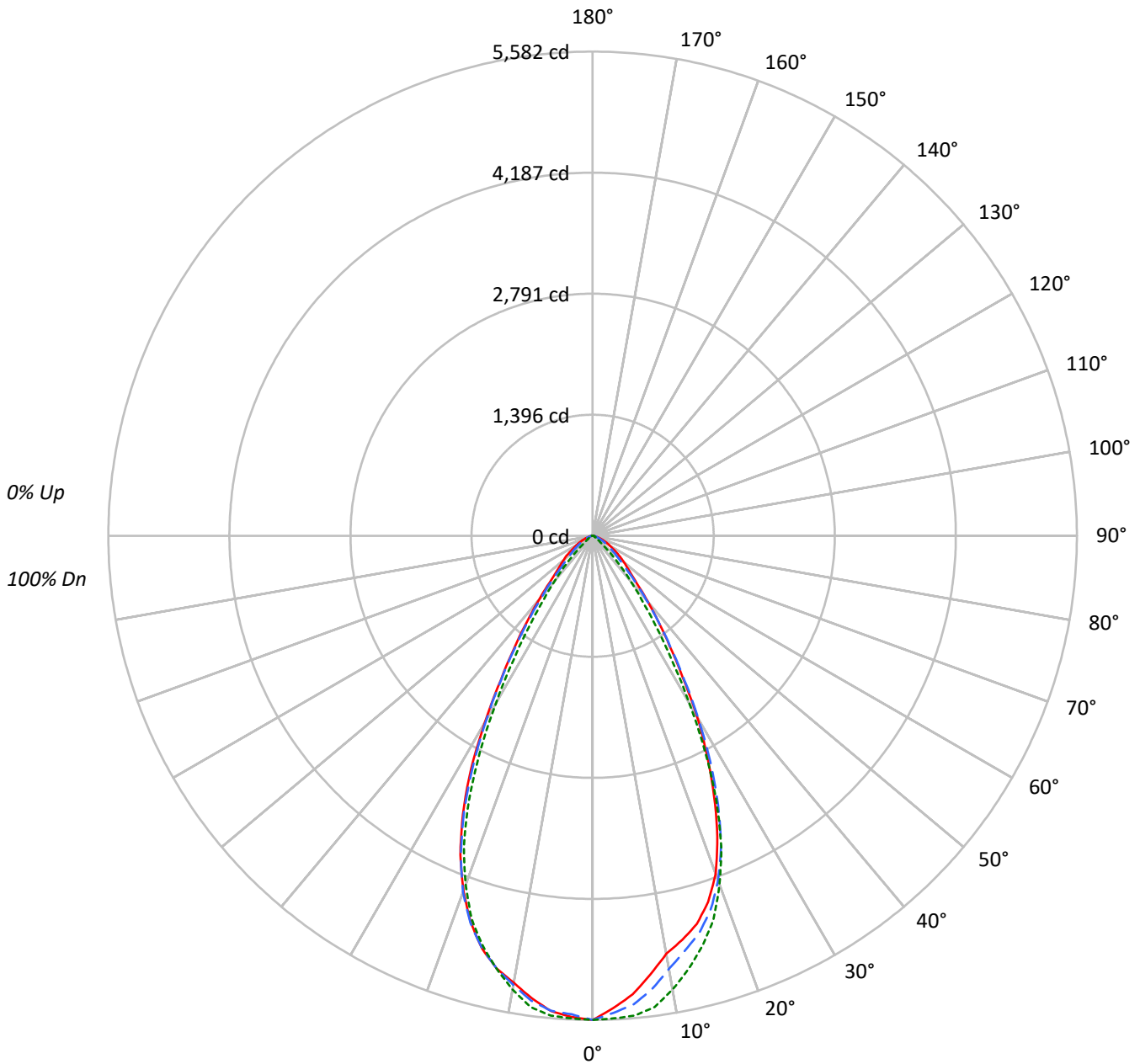
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5082.0 lumens  
Efficiency: N/A  
Efficacy: 70.6 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): 72  
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: P859212

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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°	685830	685830	685830
5°	654425	684725	678349
10°	610370	662528	652847
15°	589399	622302	626690
20°	542170	559075	569220
25°	449361	457548	479752
30°	341838	316161	351626
35°	231459	189435	234038
40°	157631	108541	152788
45°	109353	54676	103359
50°	88988	22247	83216
55°	72010	13858	65563
60°	57201	10590	51893
65°	45116	8779	40087
70°	34052	7759	30963
75°	24540	6123	22499
80°	18324	6084	15282
85°	12122	6061	12122



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.3	10.1
10°-20°	1348.6	26.5
20°-30°	1547.3	30.4
30°-40°	939.9	18.5
40°-50°	402.8	7.9
50°-60°	193.3	3.8
60°-70°	94.0	1.8
70°-80°	34.9	0.7
80°-90°	8.0	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°	3409.1	67.1
0°-40°	4349.1	85.6
0°-60°	4945.1	97.3
0°-90°	5082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5082.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5582	5582	5582	5582	5582	
5°	5307	5423	5552	5496	5501	493
15°	4634	4742	4893	4923	4927	1290
25°	3315	3423	3375	3505	3539	1504
35°	1543	1565	1263	1526	1560	989
45°	629	560	315	504	595	511
55°	336	250	65	224	306	303
65°	155	104	30	95	138	157
75°	52	34	13	30	47	57
85°	9	9	4	4	9	12
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°	5582.5	5582.5	5582.5	5582.5	5582.5	5582.5	5582.5	5582.5	5582.5
2.5°	5448.9	5509.2	5504.9	5556.6	5569.6	5556.6	5522.2	5556.6	5552.3
5°	5306.6	5375.6	5423.0	5509.2	5552.3	5543.7	5496.3	5504.9	5500.6
7.5°	5099.7	5185.9	5267.8	5397.1	5479.0	5474.7	5405.8	5392.8	5375.6
10°	4892.8	4974.7	5069.5	5203.2	5310.9	5328.2	5259.2	5241.9	5233.3
12.5°	4772.1	4836.7	4901.4	5017.8	5112.6	5147.1	5108.3	5112.6	5108.3
15°	4634.1	4698.8	4741.9	4828.1	4892.8	4940.2	4922.9	4948.8	4927.3
17.5°	4427.2	4504.8	4522.0	4586.7	4634.1	4664.3	4681.5	4707.4	4672.9
20°	4147.0	4207.4	4228.9	4254.8	4276.3	4315.1	4366.9	4392.7	4353.9
22.5°	3754.7	3871.1	3866.8	3853.9	3875.4	3888.4	3970.3	4013.4	3983.2
25°	3315.0	3435.7	3422.8	3371.1	3375.4	3401.2	3504.7	3560.7	3539.2
27.5°	2853.8	2965.8	2935.7	2836.5	2810.7	2849.4	2983.1	3047.7	3034.8
30°	2409.7	2483.0	2435.6	2258.9	2228.7	2276.1	2448.5	2513.2	2478.7
32.5°	1931.2	1987.3	1965.7	1750.2	1698.5	1745.9	1948.5	2008.8	1970.0
35°	1543.3	1595.0	1564.8	1310.5	1263.1	1314.8	1526.0	1595.0	1560.5
37.5°	1237.2	1276.0	1237.2	965.6	922.5	974.2	1176.9	1267.4	1224.3
40°	982.9	1013.0	961.3	711.3	676.8	702.7	892.3	982.9	952.7
42.5°	775.9	797.5	741.5	521.6	482.8	517.3	672.5	754.4	737.1
45°	629.4	629.4	560.4	362.1	314.7	349.2	504.4	590.6	594.9
47.5°	538.9	525.9	439.7	241.4	181.1	228.5	400.9	491.4	504.4
50°	465.6	448.3	362.1	176.7	116.4	163.8	331.9	422.5	435.4
52.5°	400.9	388.0	301.8	137.9	81.9	125.0	280.2	366.4	379.4
55°	336.2	327.6	250.0	107.8	64.7	94.8	224.2	297.4	306.1
57.5°	275.9	263.0	202.6	90.5	51.7	77.6	185.4	245.7	254.3
60°	232.8	219.9	163.8	73.3	43.1	60.4	150.9	202.6	211.2
62.5°	194.0	181.1	133.6	60.4	34.5	51.7	120.7	163.8	172.4
65°	155.2	146.6	103.5	47.4	30.2	38.8	94.8	129.3	137.9
67.5°	125.0	116.4	81.9	38.8	25.9	30.2	73.3	103.5	112.1
70°	94.8	86.2	60.4	30.2	21.6	25.9	56.0	77.6	86.2
72.5°	69.0	64.7	47.4	25.9	17.2	21.6	38.8	56.0	64.7
75°	51.7	47.4	34.5	17.2	12.9	17.2	30.2	43.1	47.4
77.5°	34.5	34.5	25.9	12.9	12.9	12.9	21.6	30.2	30.2
80°	25.9	21.6	17.2	8.6	8.6	8.6	12.9	21.6	21.6
82.5°	17.2	12.9	12.9	8.6	8.6	8.6	8.6	12.9	12.9
85°	8.6	8.6	8.6	4.3	4.3	4.3	4.3	8.6	8.6
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)