

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: P859170

Luminaire Tested: **LD4C60D010 EU4609027 4LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P859170  
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 EU4609027 4LBMDSWLI  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

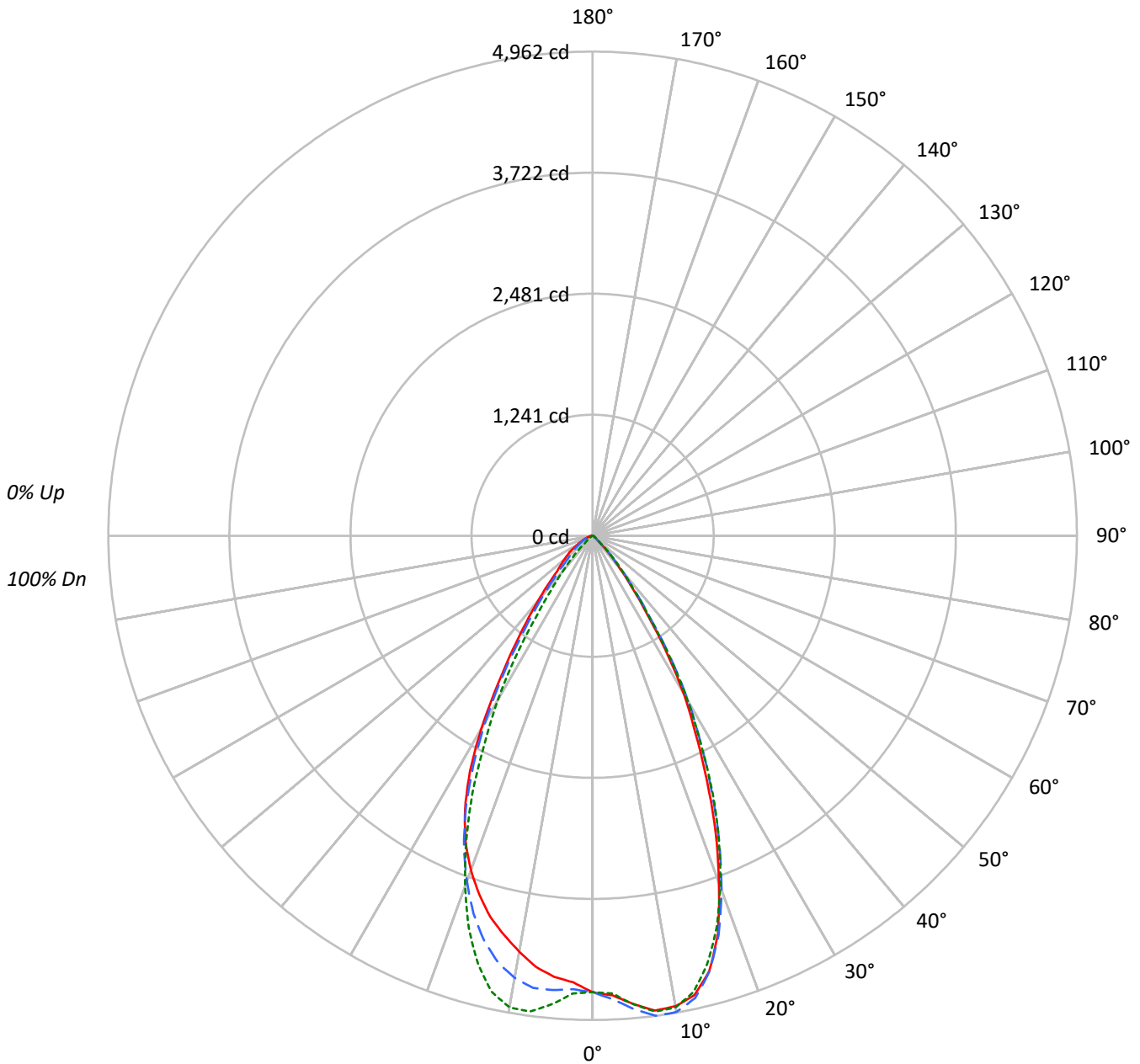
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4158.0 lumens  
Efficiency: N/A  
Efficacy: 57.7 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 (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°	574561	574561	574561
5°	594132	594527	559392
10°	610582	612179	539900
15°	587503	577328	514625
20°	494673	499275	476684
25°	375782	394868	419607
30°	264283	275192	322871
35°	142583	149302	213641
40°	68784	75985	138611
45°	24463	33376	90102
50°	9174	11620	72188
55°	6854	8225	59651
60°	5504	6290	43269
65°	4651	5581	33488
70°	3448	4598	26437
75°	3038	4557	19746
80°	2264	4528	13584
85°	0	4511	9021



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.4	11.0
10°-20°	1228.4	29.5
20°-30°	1332.5	32.0
30°-40°	739.3	17.8
40°-50°	235.5	5.7
50°-60°	94.9	2.3
60°-70°	48.0	1.2
70°-80°	19.8	0.5
80°-90°	4.1	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°	3016.3	72.5
0°-40°	3755.6	90.3
0°-60°	4086.0	98.3
0°-90°	4158.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4158.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4677	4677	4677	4677	4677	
5°	4818	4869	4821	4674	4536	463
15°	4619	4622	4539	4296	4046	1263
25°	2772	2887	2913	3070	3096	1266
35°	951	1028	996	1316	1424	631
45°	141	166	192	429	519	135
55°	32	32	38	205	278	29
65°	16	16	19	93	115	16
75°	6	6	10	32	42	8
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°	4676.8	4676.8	4676.8	4676.8	4676.8	4676.8	4676.8	4676.8	4676.8
2.5°	4715.2	4756.8	4753.6	4721.6	4696.0	4686.4	4651.2	4609.6	4580.8
5°	4817.7	4868.9	4868.9	4843.3	4820.9	4766.4	4673.6	4584.0	4536.0
7.5°	4907.3	4958.5	4961.7	4942.5	4916.9	4827.3	4673.6	4529.6	4455.9
10°	4894.5	4932.9	4955.3	4936.1	4907.3	4788.9	4600.0	4407.9	4327.9
12.5°	4820.9	4856.1	4852.9	4824.1	4785.7	4664.0	4478.3	4279.9	4190.2
15°	4619.2	4638.4	4622.4	4590.4	4539.2	4446.3	4295.9	4126.2	4046.2
17.5°	4270.3	4295.9	4289.5	4238.3	4219.1	4129.4	4059.0	3927.8	3857.3
20°	3783.7	3863.7	3863.7	3825.3	3818.9	3758.1	3767.7	3697.3	3646.1
22.5°	3293.9	3364.4	3386.8	3370.8	3383.6	3354.8	3444.4	3425.2	3399.6
25°	2772.2	2842.6	2887.4	2881.0	2913.0	2913.0	3069.9	3108.3	3095.5
27.5°	2282.4	2349.6	2400.8	2413.6	2394.4	2429.6	2644.1	2720.9	2720.9
30°	1863.0	1917.5	1965.5	1965.5	1939.9	1965.5	2192.8	2282.4	2276.0
32.5°	1389.3	1450.1	1494.9	1488.5	1466.1	1501.3	1741.4	1831.0	1808.6
35°	950.7	992.3	1027.6	1014.8	995.5	1053.2	1315.7	1427.7	1424.5
37.5°	643.4	681.8	704.2	694.6	688.2	755.5	995.5	1120.4	1114.0
40°	428.9	454.6	470.6	467.4	473.8	531.4	749.1	864.3	864.3
42.5°	272.1	288.1	304.1	304.1	320.1	380.9	569.8	669.0	669.0
45°	140.8	150.5	166.5	176.1	192.1	256.1	428.9	512.2	518.6
47.5°	67.2	70.4	76.8	80.0	92.8	160.1	329.7	419.3	438.6
50°	48.0	51.2	51.2	51.2	60.8	121.6	278.5	361.7	377.7
52.5°	38.4	38.4	38.4	41.6	48.0	102.4	240.1	313.7	326.5
55°	32.0	32.0	32.0	32.0	38.4	83.2	204.9	268.9	278.5
57.5°	25.6	25.6	25.6	25.6	32.0	67.2	169.7	214.5	217.7
60°	22.4	22.4	22.4	22.4	25.6	57.6	137.6	176.1	176.1
62.5°	19.2	19.2	19.2	19.2	22.4	48.0	115.2	144.0	140.8
65°	16.0	16.0	16.0	16.0	19.2	38.4	92.8	115.2	115.2
67.5°	12.8	12.8	12.8	12.8	16.0	32.0	73.6	92.8	92.8
70°	9.6	9.6	9.6	9.6	12.8	25.6	60.8	73.6	73.6
72.5°	9.6	9.6	9.6	9.6	9.6	19.2	44.8	57.6	54.4
75°	6.4	6.4	6.4	6.4	9.6	16.0	32.0	41.6	41.6
77.5°	6.4	6.4	6.4	6.4	6.4	12.8	25.6	28.8	28.8
80°	3.2	3.2	3.2	3.2	6.4	9.6	16.0	19.2	19.2
82.5°	0.0	3.2	0.0	3.2	3.2	6.4	12.8	12.8	12.8
85°	0.0	0.0	0.0	0.0	3.2	3.2	6.4	9.6	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2	3.2
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)