

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: P859431

Luminaire Tested: **LD4C70D010 EU4709027 4LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P859431  
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: LD4C70D010 EU4709027 4LBMDSWLI  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

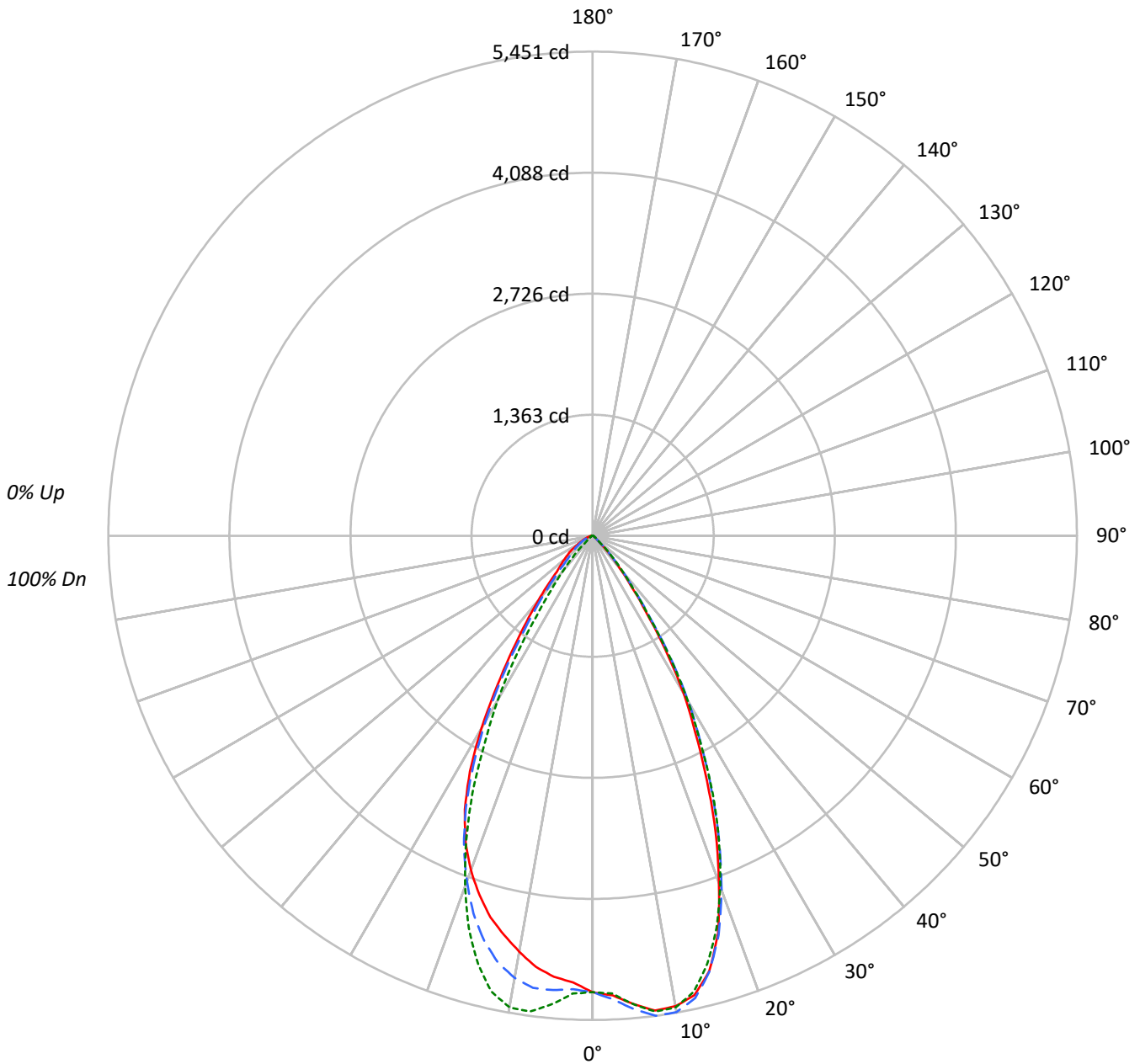
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4568.0 lumens  
Efficiency: N/A  
Efficacy: 58.6 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): 78  
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
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°	631221	631221	631221
5°	652710	653142	614542
10°	670786	672545	593130
15°	645437	634258	565373
20°	543451	548511	523684
25°	412829	433799	460978
30°	290343	302330	354704
35°	156650	164029	234713
40°	75568	83475	152275
45°	26878	36659	98980
50°	10091	12767	79317
55°	7539	9039	65542
60°	6044	6904	47520
65°	5116	6134	36802
70°	3808	5065	29059
75°	3323	5031	21692
80°	2476	4952	14928
85°	0	4934	9867



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.3	11.0
10°-20°	1349.6	29.5
20°-30°	1463.9	32.0
30°-40°	812.2	17.8
40°-50°	258.7	5.7
50°-60°	104.3	2.3
60°-70°	52.7	1.2
70°-80°	21.8	0.5
80°-90°	4.5	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°	3313.7	72.5
0°-40°	4126.0	90.3
0°-60°	4489.0	98.3
0°-90°	4568.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4568.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5138	5138	5138	5138	5138	
5°	5293	5349	5296	5134	4983	509
15°	5075	5078	4987	4720	4445	1388
25°	3046	3172	3200	3373	3401	1391
35°	1044	1129	1094	1445	1565	693
45°	155	183	211	471	570	148
55°	35	35	42	225	306	32
65°	18	18	21	102	127	17
75°	7	7	11	35	46	8
85°	0	0	4	7	7	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°	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0	5138.0
2.5°	5180.2	5225.9	5222.4	5187.2	5159.1	5148.5	5109.8	5064.1	5032.5
5°	5292.7	5349.0	5349.0	5320.8	5296.2	5236.4	5134.5	5036.0	4983.2
7.5°	5391.2	5447.4	5451.0	5429.9	5401.7	5303.3	5134.5	4976.2	4895.3
10°	5377.1	5419.3	5443.9	5422.8	5391.2	5261.1	5053.6	4842.6	4754.6
12.5°	5296.2	5334.9	5331.4	5299.7	5257.5	5123.9	4919.9	4701.9	4603.4
15°	5074.7	5095.8	5078.2	5043.0	4986.8	4884.8	4719.5	4533.1	4445.2
17.5°	4691.3	4719.5	4712.4	4656.2	4635.1	4536.6	4459.2	4315.1	4237.7
20°	4156.8	4244.7	4244.7	4202.5	4195.5	4128.7	4139.2	4061.8	4005.6
22.5°	3618.7	3696.1	3720.7	3703.1	3717.2	3685.6	3784.0	3762.9	3734.8
25°	3045.5	3122.9	3172.1	3165.1	3200.2	3200.2	3372.6	3414.8	3400.7
27.5°	2507.4	2581.3	2637.6	2651.6	2630.5	2669.2	2904.8	2989.2	2989.2
30°	2046.7	2106.5	2159.3	2159.3	2131.2	2159.3	2409.0	2507.4	2500.4
32.5°	1526.3	1593.1	1642.3	1635.3	1610.7	1649.4	1913.1	2011.6	1987.0
35°	1044.5	1090.2	1128.9	1114.8	1093.7	1157.0	1445.4	1568.5	1565.0
37.5°	706.9	749.1	773.7	763.1	756.1	830.0	1093.7	1230.9	1223.8
40°	471.2	499.4	517.0	513.4	520.5	583.8	822.9	949.5	949.5
42.5°	298.9	316.5	334.1	334.1	351.7	418.5	626.0	735.0	735.0
45°	154.7	165.3	182.9	193.4	211.0	281.3	471.2	562.7	569.7
47.5°	73.9	77.4	84.4	87.9	102.0	175.8	362.2	460.7	481.8
50°	52.8	56.3	56.3	56.3	66.8	133.6	306.0	397.4	415.0
52.5°	42.2	42.2	42.2	45.7	52.8	112.5	263.8	344.6	358.7
55°	35.2	35.2	35.2	35.2	42.2	91.4	225.1	295.4	306.0
57.5°	28.1	28.1	28.1	28.1	35.2	73.9	186.4	235.6	239.1
60°	24.6	24.6	24.6	24.6	28.1	63.3	151.2	193.4	193.4
62.5°	21.1	21.1	21.1	21.1	24.6	52.8	126.6	158.3	154.7
65°	17.6	17.6	17.6	17.6	21.1	42.2	102.0	126.6	126.6
67.5°	14.1	14.1	14.1	14.1	17.6	35.2	80.9	102.0	102.0
70°	10.6	10.6	10.6	10.6	14.1	28.1	66.8	80.9	80.9
72.5°	10.6	10.6	10.6	10.6	10.6	21.1	49.2	63.3	59.8
75°	7.0	7.0	7.0	7.0	10.6	17.6	35.2	45.7	45.7
77.5°	7.0	7.0	7.0	7.0	7.0	14.1	28.1	31.7	31.7
80°	3.5	3.5	3.5	3.5	7.0	10.6	17.6	21.1	21.1
82.5°	0.0	3.5	0.0	3.5	3.5	7.0	14.1	14.1	14.1
85°	0.0	0.0	0.0	0.0	3.5	3.5	7.0	10.6	7.0
87.5°	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
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)