

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: P859515

Luminaire Tested: **LD4C70D010 EU4709050 4LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859515  
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 EU4709050 4LBMDSWLI  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

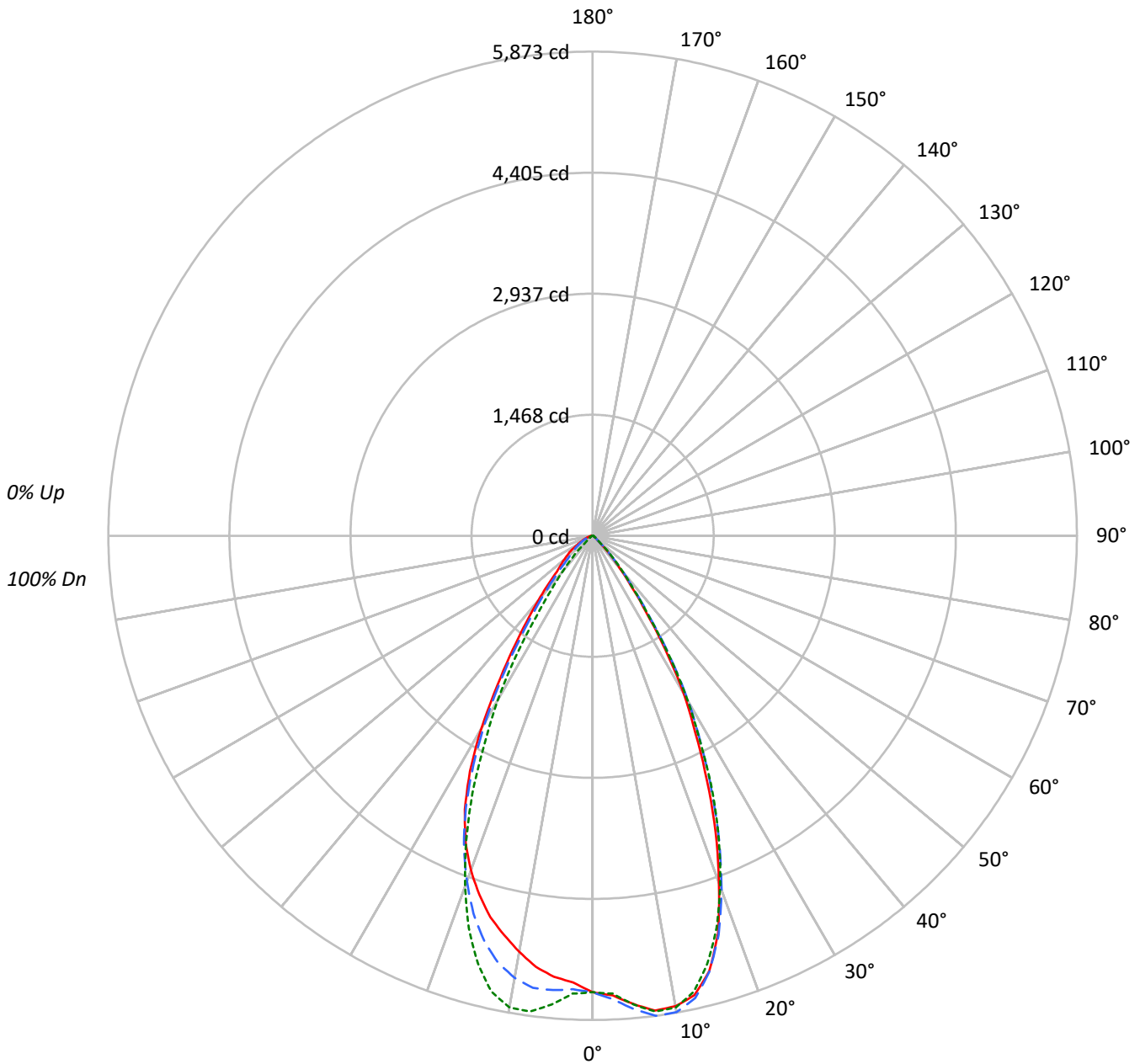
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4922.0 lumens  
Efficiency: N/A  
Efficacy: 63.1 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									
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°	680129	680129	680129
5°	703297	703766	662169
10°	722769	724665	639100
15°	695447	683403	609189
20°	585562	591014	564265
25°	444820	467417	496696
30°	312856	325751	382196
35°	168783	176747	252890
40°	81438	89938	164078
45°	28963	39509	106660
50°	10856	13761	85452
55°	8118	9746	70618
60°	6511	7445	51205
65°	5494	6599	39651
70°	4095	5460	31322
75°	3607	5411	23401
80°	2688	5377	16060
85°	0	5356	10713



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.0	11.0
10°-20°	1454.1	29.5
20°-30°	1577.4	32.0
30°-40°	875.2	17.8
40°-50°	278.8	5.7
50°-60°	112.4	2.3
60°-70°	56.8	1.2
70°-80°	23.5	0.5
80°-90°	4.9	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°	3570.5	72.5
0°-40°	4445.7	90.3
0°-60°	4836.8	98.3
0°-90°	4922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4922.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5536	5536	5536	5536	5536	
5°	5703	5764	5707	5532	5369	548
15°	5468	5472	5373	5085	4790	1495
25°	3282	3418	3448	3634	3664	1499
35°	1125	1216	1178	1557	1686	747
45°	167	197	227	508	614	160
55°	38	38	46	242	330	35
65°	19	19	23	110	136	19
75°	8	8	11	38	49	9
85°	0	0	4	8	8	1
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°	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1	5536.1
2.5°	5581.6	5630.9	5627.1	5589.2	5558.9	5547.5	5505.8	5456.6	5422.5
5°	5702.9	5763.5	5763.5	5733.2	5706.7	5642.2	5532.4	5426.3	5369.4
7.5°	5809.0	5869.6	5873.4	5850.7	5820.3	5714.2	5532.4	5361.8	5274.7
10°	5793.8	5839.3	5865.8	5843.1	5809.0	5668.8	5445.2	5217.8	5123.1
12.5°	5706.7	5748.3	5744.6	5710.5	5665.0	5521.0	5301.2	5066.3	4960.2
15°	5467.9	5490.7	5471.7	5433.8	5373.2	5263.3	5085.2	4884.4	4789.7
17.5°	5054.9	5085.2	5077.6	5017.0	4994.3	4888.2	4804.8	4649.5	4566.1
20°	4478.9	4573.7	4573.7	4528.2	4520.6	4448.6	4460.0	4376.6	4316.0
22.5°	3899.2	3982.5	4009.1	3990.1	4005.3	3971.2	4077.3	4054.5	4024.2
25°	3281.5	3364.9	3417.9	3410.4	3448.2	3448.2	3633.9	3679.4	3664.2
27.5°	2701.8	2781.3	2842.0	2857.1	2834.4	2876.1	3129.9	3220.9	3220.9
30°	2205.4	2269.8	2326.6	2326.6	2296.3	2326.6	2595.7	2701.8	2694.2
32.5°	1644.5	1716.5	1769.6	1762.0	1735.5	1777.2	2061.4	2167.5	2140.9
35°	1125.4	1174.7	1216.4	1201.2	1178.5	1246.7	1557.4	1690.0	1686.2
37.5°	761.6	807.1	833.6	822.3	814.7	894.3	1178.5	1326.2	1318.7
40°	507.8	538.1	557.0	553.2	560.8	629.0	886.7	1023.1	1023.1
42.5°	322.1	341.0	360.0	360.0	378.9	450.9	674.5	792.0	792.0
45°	166.7	178.1	197.0	208.4	227.4	303.1	507.8	606.3	613.9
47.5°	79.6	83.4	90.9	94.7	109.9	189.5	390.3	496.4	519.1
50°	56.8	60.6	60.6	60.6	72.0	144.0	329.7	428.2	447.1
52.5°	45.5	45.5	45.5	49.3	56.8	121.3	284.2	371.3	386.5
55°	37.9	37.9	37.9	37.9	45.5	98.5	242.5	318.3	329.7
57.5°	30.3	30.3	30.3	30.3	37.9	79.6	200.8	253.9	257.7
60°	26.5	26.5	26.5	26.5	30.3	68.2	162.9	208.4	208.4
62.5°	22.7	22.7	22.7	22.7	26.5	56.8	136.4	170.5	166.7
65°	18.9	18.9	18.9	18.9	22.7	45.5	109.9	136.4	136.4
67.5°	15.2	15.2	15.2	15.2	18.9	37.9	87.2	109.9	109.9
70°	11.4	11.4	11.4	11.4	15.2	30.3	72.0	87.2	87.2
72.5°	11.4	11.4	11.4	11.4	11.4	22.7	53.0	68.2	64.4
75°	7.6	7.6	7.6	7.6	11.4	18.9	37.9	49.3	49.3
77.5°	7.6	7.6	7.6	7.6	7.6	15.2	30.3	34.1	34.1
80°	3.8	3.8	3.8	3.8	7.6	11.4	18.9	22.7	22.7
82.5°	0.0	3.8	0.0	3.8	3.8	7.6	15.2	15.2	15.2
85°	0.0	0.0	0.0	0.0	3.8	3.8	7.6	11.4	7.6
87.5°	0.0	0.0	0.0	0.0	0.0	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)