

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: P859031

Luminaire Tested: **LD4C50D010 EU4509050 4LBMDSWGPH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P859031  
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: LD4C50D010 EU4509050 4LBMDSWGPH  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

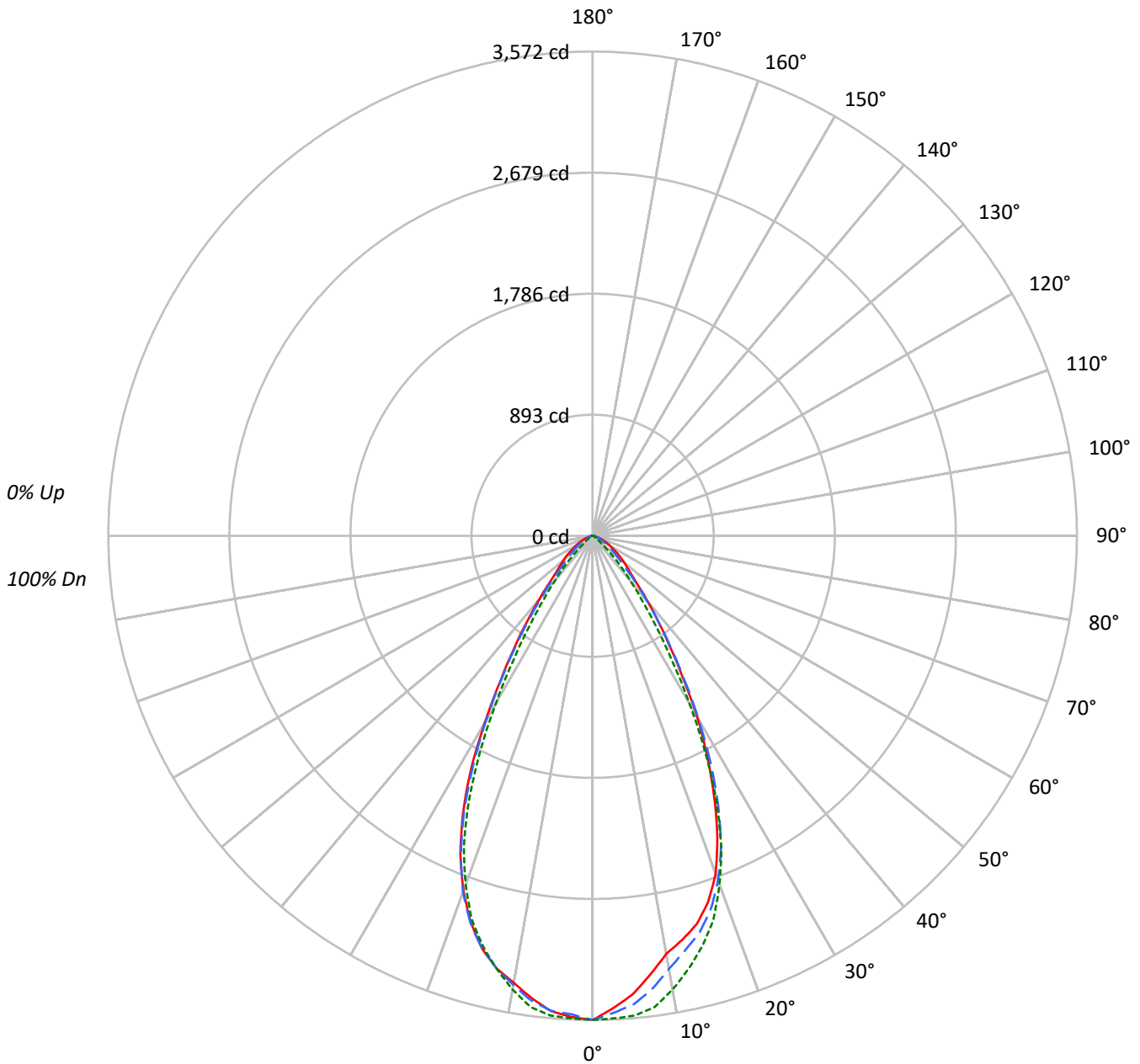
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3252.0 lumens  
Efficiency: N/A  
Efficacy: 55.7 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): 58.4  
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				100				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72				
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67				
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58				
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55				
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51				
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	438869	438869	438869
5°	418767	438166	434084
10°	390576	423958	417758
15°	377161	398211	401021
20°	346939	357751	364249
25°	287550	292783	306989
30°	218747	202319	225003
35°	148102	121211	149766
40°	100859	69458	97764
45°	69966	34991	66143
50°	56936	14239	53248
55°	46093	8867	41960
60°	36610	6782	33220
65°	28866	5610	25668
70°	21803	4957	19828
75°	15712	3940	14382
80°	11744	3891	9763
85°	7753	3947	7753



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.4	10.1
10°-20°	863.0	26.5
20°-30°	990.1	30.4
30°-40°	601.5	18.5
40°-50°	257.8	7.9
50°-60°	123.7	3.8
60°-70°	60.1	1.8
70°-80°	22.3	0.7
80°-90°	5.2	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°	2181.5	67.1
0°-40°	2783.0	85.6
0°-60°	3164.4	97.3
0°-90°	3252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3252.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3572	3572	3572	3572	3572	
5°	3396	3470	3553	3517	3520	315
15°	2965	3034	3131	3150	3153	826
25°	2121	2190	2160	2243	2265	962
35°	988	1001	808	976	999	633
45°	403	359	201	323	381	327
55°	215	160	41	143	196	194
65°	99	66	19	61	88	101
75°	33	22	8	19	30	36
85°	6	6	3	3	6	8
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°	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3	3572.3
2.5°	3486.8	3525.4	3522.6	3555.7	3564.0	3555.7	3533.7	3555.7	3553.0
5°	3395.7	3439.9	3470.2	3525.4	3553.0	3547.4	3517.1	3522.6	3519.9
7.5°	3263.3	3318.5	3370.9	3453.7	3506.1	3503.3	3459.2	3450.9	3439.9
10°	3130.9	3183.3	3244.0	3329.5	3398.5	3409.5	3365.4	3354.4	3348.8
12.5°	3053.7	3095.1	3136.4	3210.9	3271.6	3293.7	3268.8	3271.6	3268.8
15°	2965.4	3006.8	3034.4	3089.5	3130.9	3161.3	3150.2	3166.8	3153.0
17.5°	2833.0	2882.6	2893.7	2935.1	2965.4	2984.7	2995.7	3012.3	2990.2
20°	2653.7	2692.3	2706.1	2722.7	2736.4	2761.3	2794.4	2810.9	2786.1
22.5°	2402.7	2477.1	2474.4	2466.1	2479.9	2488.2	2540.6	2568.2	2548.9
25°	2121.3	2198.5	2190.3	2157.2	2159.9	2176.5	2242.7	2278.5	2264.7
27.5°	1826.1	1897.9	1878.5	1815.1	1798.6	1823.4	1908.9	1950.3	1942.0
30°	1542.0	1588.9	1558.6	1445.5	1426.2	1456.5	1566.8	1608.2	1586.1
32.5°	1235.8	1271.7	1257.9	1120.0	1086.9	1117.2	1246.8	1285.5	1260.6
35°	987.5	1020.6	1001.3	838.6	808.2	841.3	976.5	1020.6	998.6
37.5°	791.7	816.5	791.7	617.9	590.3	623.4	753.1	811.0	783.4
40°	628.9	648.3	615.1	455.2	433.1	449.6	571.0	628.9	609.6
42.5°	496.5	510.3	474.5	333.8	309.0	331.0	430.3	482.7	471.7
45°	402.7	402.7	358.6	231.7	201.4	223.4	322.7	377.9	380.7
47.5°	344.8	336.5	281.4	154.5	115.9	146.2	256.5	314.5	322.7
50°	297.9	286.9	231.7	113.1	74.5	104.8	212.4	270.3	278.6
52.5°	256.5	248.3	193.1	88.3	52.4	80.0	179.3	234.5	242.7
55°	215.2	209.6	160.0	69.0	41.4	60.7	143.4	190.3	195.9
57.5°	176.5	168.3	129.7	57.9	33.1	49.7	118.6	157.2	162.8
60°	149.0	140.7	104.8	46.9	27.6	38.6	96.5	129.7	135.2
62.5°	124.1	115.9	85.5	38.6	22.1	33.1	77.2	104.8	110.3
65°	99.3	93.8	66.2	30.3	19.3	24.8	60.7	82.8	88.3
67.5°	80.0	74.5	52.4	24.8	16.6	19.3	46.9	66.2	71.7
70°	60.7	55.2	38.6	19.3	13.8	16.6	35.9	49.7	55.2
72.5°	44.1	41.4	30.3	16.6	11.0	13.8	24.8	35.9	41.4
75°	33.1	30.3	22.1	11.0	8.3	11.0	19.3	27.6	30.3
77.5°	22.1	22.1	16.6	8.3	8.3	8.3	13.8	19.3	19.3
80°	16.6	13.8	11.0	5.5	5.5	5.5	8.3	13.8	13.8
82.5°	11.0	8.3	8.3	5.5	5.5	5.5	5.5	8.3	8.3
85°	5.5	5.5	5.5	2.8	2.8	2.8	2.8	5.5	5.5
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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)