

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: P856779

Luminaire Tested: **LD4C10D010 EU4109050 4LBMDSWGPH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856779  
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: LD4C10D010 EU4109050 4LBMDSWGPH  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

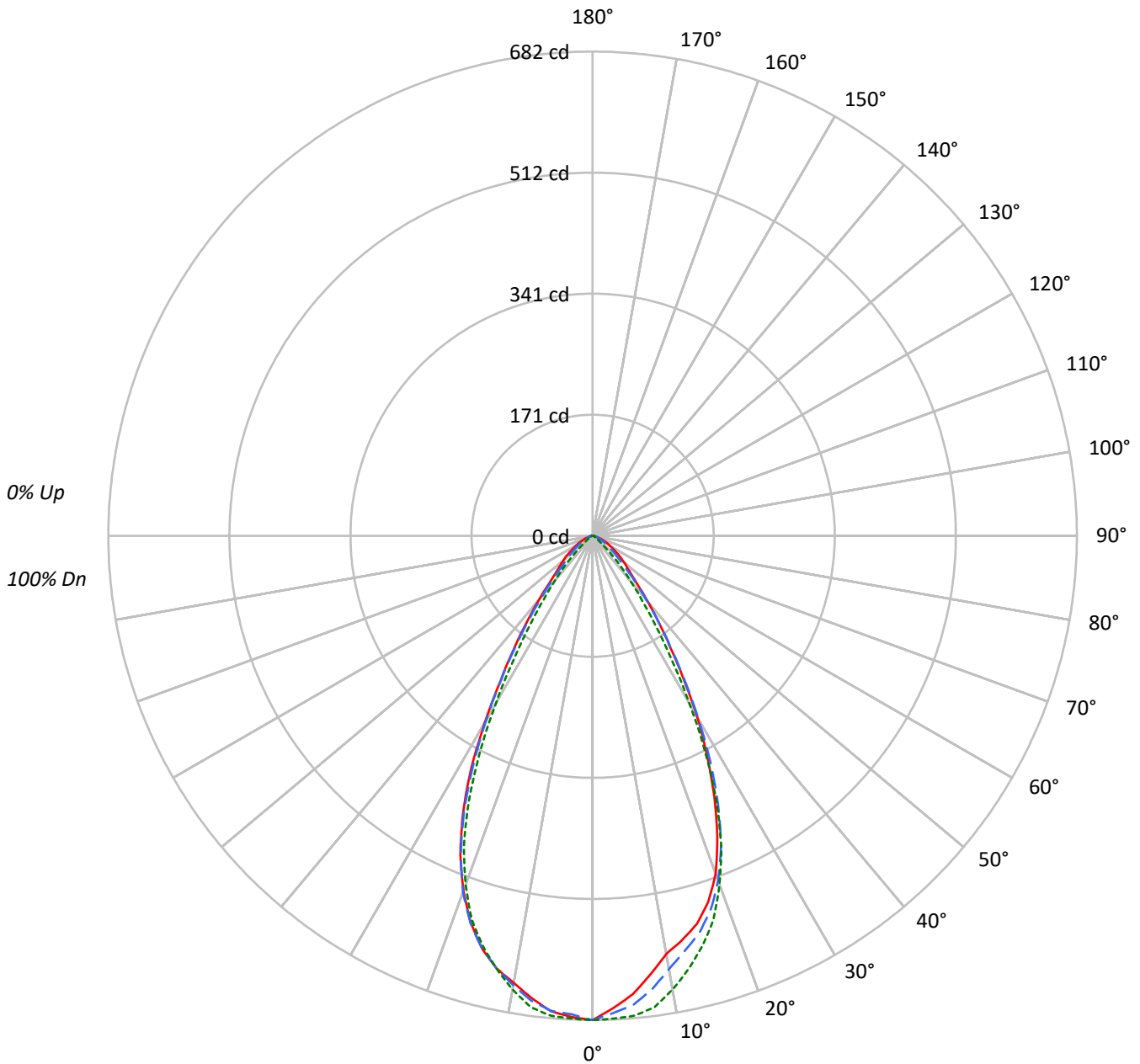
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 621.0 lumens  
Efficiency: N/A  
Efficacy: 63.4 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): 9.8  
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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48																			

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

	0°	90°	180°
0°	83811	83811	83811
5°	79962	83674	82898
10°	74587	80962	79777
15°	72026	76045	76579
20°	66245	68311	69553
25°	54913	55916	58627
30°	41777	38628	42969
35°	28286	23141	28600
40°	19261	13263	18668
45°	13361	6689	12631
50°	10875	2714	10168
55°	8803	1692	8011
60°	6978	1302	6339
65°	5523	1076	4913
70°	4167	934	3772
75°	2990	759	2753
80°	2264	778	1839
85°	1551	705	1551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.7	10.1
10°-20°	164.8	26.5
20°-30°	189.1	30.4
30°-40°	114.9	18.5
40°-50°	49.2	7.9
50°-60°	23.6	3.8
60°-70°	11.5	1.8
70°-80°	4.3	0.7
80°-90°	1.0	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°	416.6	67.1
0°-40°	531.4	85.6
0°-60°	604.3	97.3
0°-90°	621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	621.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	682	682	682	682	682	
5°	648	663	678	672	672	60
15°	566	579	598	602	602	158
25°	405	418	412	428	432	184
35°	189	191	154	186	191	121
45°	77	68	38	62	73	62
55°	41	31	8	27	37	37
65°	19	13	4	12	17	19
75°	6	4	2	4	6	7
85°	1	1	0	0	1	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°	682.2	682.2	682.2	682.2	682.2	682.2	682.2	682.2	682.2
2.5°	665.8	673.2	672.7	679.0	680.6	679.0	674.8	679.0	678.5
5°	648.4	656.9	662.7	673.2	678.5	677.4	671.6	672.7	672.2
7.5°	623.2	633.7	643.7	659.5	669.5	669.0	660.6	659.0	656.9
10°	597.9	607.9	619.5	635.8	649.0	651.1	642.7	640.5	639.5
12.5°	583.1	591.0	598.9	613.2	624.7	629.0	624.2	624.7	624.2
15°	566.3	574.2	579.4	590.0	597.9	603.7	601.6	604.7	602.1
17.5°	541.0	550.5	552.6	560.5	566.3	570.0	572.1	575.2	571.0
20°	506.7	514.1	516.8	519.9	522.5	527.3	533.6	536.8	532.0
22.5°	458.8	473.0	472.5	470.9	473.6	475.1	485.1	490.4	486.7
25°	405.1	419.8	418.3	411.9	412.5	415.6	428.3	435.1	432.5
27.5°	348.7	362.4	358.7	346.6	343.5	348.2	364.5	372.4	370.8
30°	294.5	303.4	297.6	276.0	272.3	278.1	299.2	307.1	302.9
32.5°	236.0	242.8	240.2	213.9	207.5	213.3	238.1	245.5	240.7
35°	188.6	194.9	191.2	160.1	154.3	160.7	186.5	194.9	190.7
37.5°	151.2	155.9	151.2	118.0	112.7	119.0	143.8	154.9	149.6
40°	120.1	123.8	117.5	86.9	82.7	85.9	109.0	120.1	116.4
42.5°	94.8	97.5	90.6	63.7	59.0	63.2	82.2	92.2	90.1
45°	76.9	76.9	68.5	44.2	38.5	42.7	61.6	72.2	72.7
47.5°	65.8	64.3	53.7	29.5	22.1	27.9	49.0	60.1	61.6
50°	56.9	54.8	44.2	21.6	14.2	20.0	40.6	51.6	53.2
52.5°	49.0	47.4	36.9	16.9	10.0	15.3	34.2	44.8	46.4
55°	41.1	40.0	30.6	13.2	7.9	11.6	27.4	36.3	37.4
57.5°	33.7	32.1	24.8	11.1	6.3	9.5	22.7	30.0	31.1
60°	28.4	26.9	20.0	9.0	5.3	7.4	18.4	24.8	25.8
62.5°	23.7	22.1	16.3	7.4	4.2	6.3	14.7	20.0	21.1
65°	19.0	17.9	12.6	5.8	3.7	4.7	11.6	15.8	16.9
67.5°	15.3	14.2	10.0	4.7	3.2	3.7	9.0	12.6	13.7
70°	11.6	10.5	7.4	3.7	2.6	3.2	6.8	9.5	10.5
72.5°	8.4	7.9	5.8	3.2	2.1	2.6	4.7	6.8	7.9
75°	6.3	5.8	4.2	2.1	1.6	2.1	3.7	5.3	5.8
77.5°	4.2	4.2	3.2	1.6	1.6	1.6	2.6	3.7	3.7
80°	3.2	2.6	2.1	1.1	1.1	1.1	1.6	2.6	2.6
82.5°	2.1	1.6	1.6	1.1	1.1	1.1	1.1	1.6	1.6
85°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.1	1.1
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)