

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: P856735

Luminaire Tested: **LD4C10D010 EU4109035 4LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P856735  
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: LD4C10D010 EU4109035 4LBMDSWLI  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

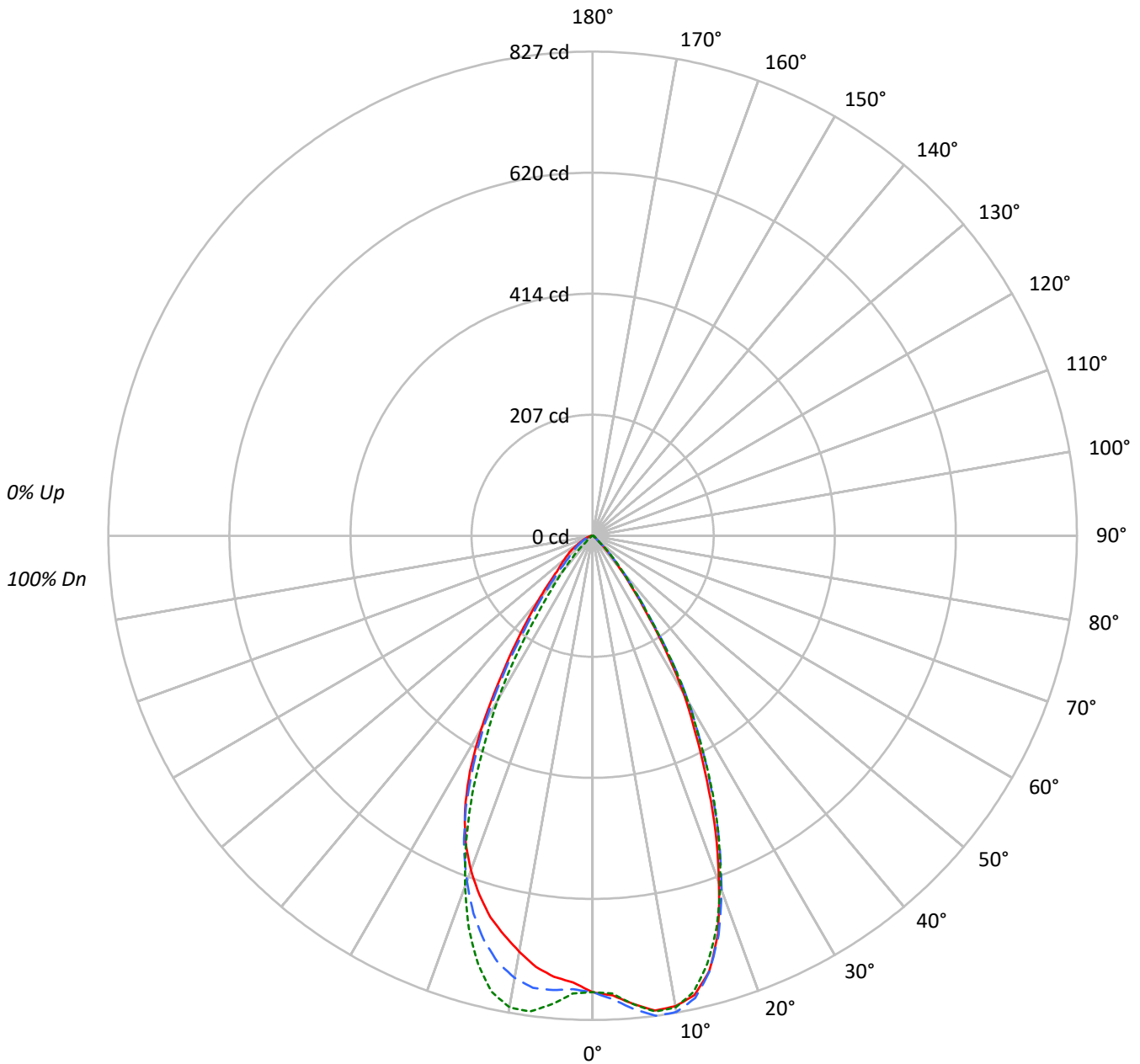
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 693.0 lumens  
Efficiency: N/A  
Efficacy: 70.7 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): 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				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	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°	95764	95764	95764
5°	99016	99090	93232
10°	101758	102032	89981
15°	97921	96217	85775
20°	82443	83215	79449
25°	62626	65811	69932
30°	44047	45863	53807
35°	23771	24881	35604
40°	11467	12670	23094
45°	4083	5560	15011
50°	1529	1930	12041
55°	1135	1371	9938
60°	909	1057	7199
65°	785	930	5581
70°	575	754	4418
75°	522	759	3275
80°	354	778	2264
85°	0	705	1551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.9	11.0
10°-20°	204.7	29.5
20°-30°	222.1	32.0
30°-40°	123.2	17.8
40°-50°	39.2	5.7
50°-60°	15.8	2.3
60°-70°	8.0	1.2
70°-80°	3.3	0.5
80°-90°	0.7	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°	502.7	72.5
0°-40°	625.9	90.3
0°-60°	681.0	98.3
0°-90°	693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	693.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	780	780	780	780	780	
5°	803	812	804	779	756	77
15°	770	770	756	716	674	211
25°	462	481	486	512	516	211
35°	158	171	166	219	237	105
45°	24	28	32	72	86	22
55°	5	5	6	34	46	5
65°	3	3	3	16	19	3
75°	1	1	2	5	7	1
85°	0	0	0	1	1	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°	779.5	779.5	779.5	779.5	779.5	779.5	779.5	779.5	779.5
2.5°	785.9	792.8	792.3	786.9	782.7	781.1	775.2	768.3	763.5
5°	802.9	811.5	811.5	807.2	803.5	794.4	778.9	764.0	756.0
7.5°	817.9	826.4	827.0	823.8	819.5	804.5	778.9	754.9	742.7
10°	815.7	822.2	825.9	822.7	817.9	798.1	766.7	734.7	721.3
12.5°	803.5	809.3	808.8	804.0	797.6	777.3	746.4	713.3	698.4
15°	769.9	773.1	770.4	765.1	756.5	741.1	716.0	687.7	674.4
17.5°	711.7	716.0	714.9	706.4	703.2	688.2	676.5	654.6	642.9
20°	630.6	644.0	644.0	637.6	636.5	626.3	628.0	616.2	607.7
22.5°	549.0	560.7	564.5	561.8	563.9	559.1	574.1	570.9	566.6
25°	462.0	473.8	481.2	480.2	485.5	485.5	511.6	518.0	515.9
27.5°	380.4	391.6	400.1	402.3	399.1	404.9	440.7	453.5	453.5
30°	310.5	319.6	327.6	327.6	323.3	327.6	365.5	380.4	379.3
32.5°	231.5	241.7	249.2	248.1	244.4	250.2	290.2	305.2	301.4
35°	158.5	165.4	171.3	169.1	165.9	175.5	219.3	237.9	237.4
37.5°	107.2	113.6	117.4	115.8	114.7	125.9	165.9	186.7	185.7
40°	71.5	75.8	78.4	77.9	79.0	88.6	124.8	144.0	144.0
42.5°	45.3	48.0	50.7	50.7	53.4	63.5	95.0	111.5	111.5
45°	23.5	25.1	27.7	29.3	32.0	42.7	71.5	85.4	86.4
47.5°	11.2	11.7	12.8	13.3	15.5	26.7	55.0	69.9	73.1
50°	8.0	8.5	8.5	8.5	10.1	20.3	46.4	60.3	63.0
52.5°	6.4	6.4	6.4	6.9	8.0	17.1	40.0	52.3	54.4
55°	5.3	5.3	5.3	5.3	6.4	13.9	34.1	44.8	46.4
57.5°	4.3	4.3	4.3	4.3	5.3	11.2	28.3	35.7	36.3
60°	3.7	3.7	3.7	3.7	4.3	9.6	22.9	29.3	29.3
62.5°	3.2	3.2	3.2	3.2	3.7	8.0	19.2	24.0	23.5
65°	2.7	2.7	2.7	2.7	3.2	6.4	15.5	19.2	19.2
67.5°	2.1	2.1	2.1	2.1	2.7	5.3	12.3	15.5	15.5
70°	1.6	1.6	1.6	1.6	2.1	4.3	10.1	12.3	12.3
72.5°	1.6	1.6	1.6	1.6	1.6	3.2	7.5	9.6	9.1
75°	1.1	1.1	1.1	1.1	1.6	2.7	5.3	6.9	6.9
77.5°	1.1	1.1	1.1	1.1	1.1	2.1	4.3	4.8	4.8
80°	0.5	0.5	0.5	0.5	1.1	1.6	2.7	3.2	3.2
82.5°	0.0	0.5	0.0	0.5	0.5	1.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.5	0.5	1.1	1.6	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	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)