

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: P856712

Luminaire Tested: **LD4C10D010 EU4109030 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856712
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 EU4109030 4LBMDSWMW
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

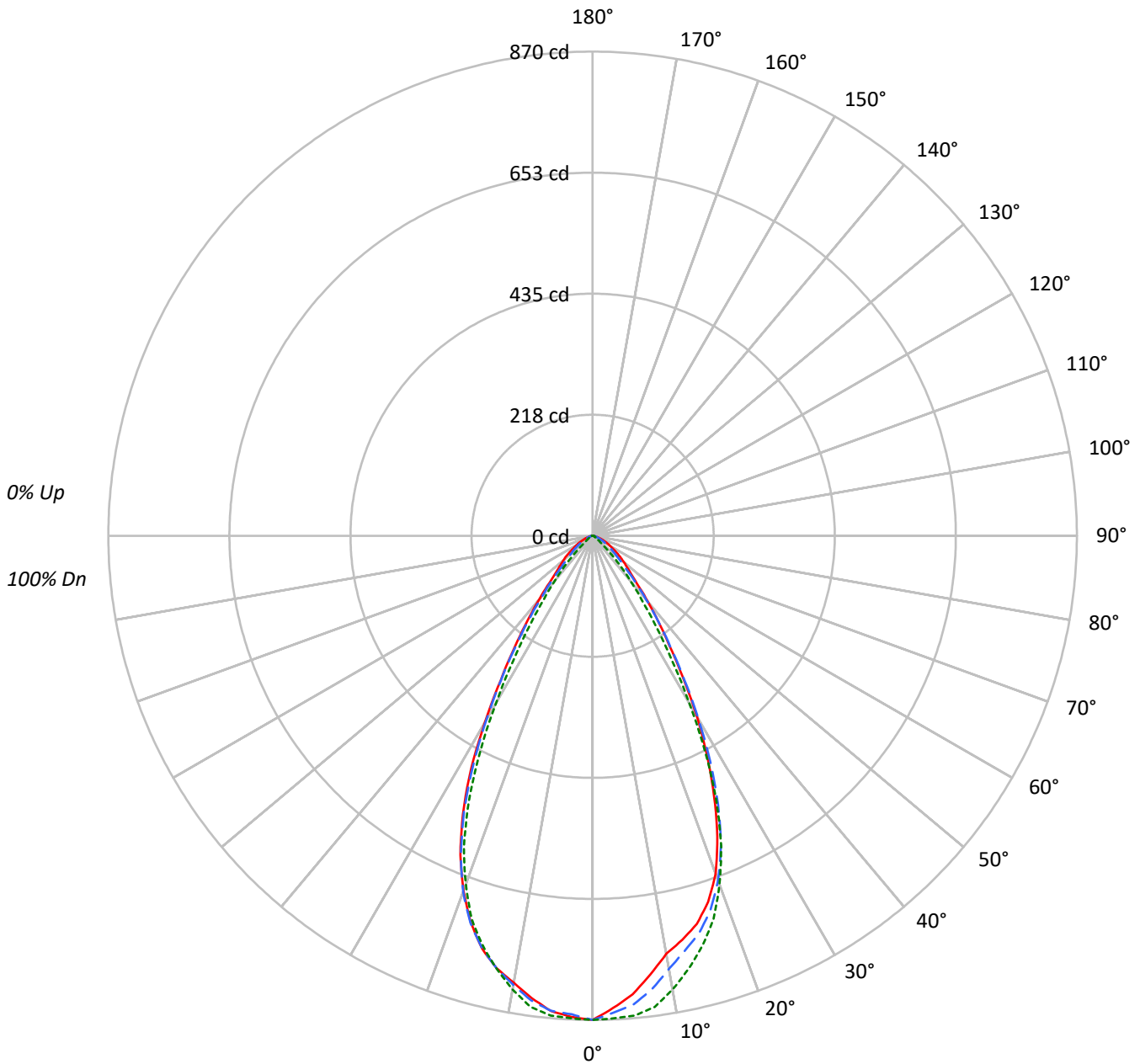
Lumens per Lamp: N/A
Luminaire Lumens: 792.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V): NR
Input Current (A_{in}): 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°	106883	106883	106883
5°	101988	106711	105712
10°	95121	103254	101745
15°	91855	96980	97667
20°	84496	87124	88706
25°	70027	71301	74771
30°	53268	49268	54800
35°	36069	29515	36474
40°	24569	16919	23816
45°	17044	8513	16106
50°	13876	3459	12977
55°	11223	2163	10217
60°	8919	1646	8084
65°	7035	1366	6250
70°	5316	1221	4813
75°	3845	949	3513
80°	2830	920	2405
85°	1832	987	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	10.1
10°-20°	210.2	26.5
20°-30°	241.1	30.4
30°-40°	146.5	18.5
40°-50°	62.8	7.9
50°-60°	30.1	3.8
60°-70°	14.6	1.8
70°-80°	5.4	0.7
80°-90°	1.2	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°	531.3	67.1
0°-40°	677.8	85.6
0°-60°	770.7	97.3
0°-90°	792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	792.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	870	870	870	870	870	
5°	827	845	865	857	857	77
15°	722	739	762	767	768	201
25°	517	533	526	546	552	234
35°	240	244	197	238	243	154
45°	98	87	49	79	93	80
55°	52	39	10	35	48	47
65°	24	16	5	15	22	25
75°	8	5	2	5	7	9
85°	1	1	1	1	1	2
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°	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0	870.0
2.5°	849.2	858.6	857.9	866.0	868.0	866.0	860.6	866.0	865.3
5°	827.0	837.8	845.1	858.6	865.3	864.0	856.6	857.9	857.2
7.5°	794.8	808.2	821.0	841.1	853.9	853.2	842.5	840.4	837.8
10°	762.5	775.3	790.1	810.9	827.7	830.4	819.6	816.9	815.6
12.5°	743.7	753.8	763.9	782.0	796.8	802.1	796.1	796.8	796.1
15°	722.2	732.3	739.0	752.4	762.5	769.9	767.2	771.2	767.9
17.5°	690.0	702.0	704.7	714.8	722.2	726.9	729.6	733.6	728.2
20°	646.3	655.7	659.1	663.1	666.4	672.5	680.5	684.6	678.5
22.5°	585.2	603.3	602.6	600.6	604.0	606.0	618.7	625.5	620.8
25°	516.6	535.4	533.4	525.4	526.0	530.1	546.2	554.9	551.6
27.5°	444.7	462.2	457.5	442.1	438.0	444.1	464.9	475.0	473.0
30°	375.5	387.0	379.6	352.0	347.3	354.7	381.6	391.7	386.3
32.5°	301.0	309.7	306.3	272.8	264.7	272.1	303.7	313.1	307.0
35°	240.5	248.6	243.9	204.2	196.8	204.9	237.8	248.6	243.2
37.5°	192.8	198.9	192.8	150.5	143.8	151.8	183.4	197.5	190.8
40°	153.2	157.9	149.8	110.8	105.5	109.5	139.1	153.2	148.5
42.5°	120.9	124.3	115.6	81.3	75.2	80.6	104.8	117.6	114.9
45°	98.1	98.1	87.3	56.4	49.0	54.4	78.6	92.0	92.7
47.5°	84.0	82.0	68.5	37.6	28.2	35.6	62.5	76.6	78.6
50°	72.6	69.9	56.4	27.5	18.1	25.5	51.7	65.8	67.9
52.5°	62.5	60.5	47.0	21.5	12.8	19.5	43.7	57.1	59.1
55°	52.4	51.1	39.0	16.8	10.1	14.8	34.9	46.4	47.7
57.5°	43.0	41.0	31.6	14.1	8.1	12.1	28.9	38.3	39.6
60°	36.3	34.3	25.5	11.4	6.7	9.4	23.5	31.6	32.9
62.5°	30.2	28.2	20.8	9.4	5.4	8.1	18.8	25.5	26.9
65°	24.2	22.8	16.1	7.4	4.7	6.0	14.8	20.2	21.5
67.5°	19.5	18.1	12.8	6.0	4.0	4.7	11.4	16.1	17.5
70°	14.8	13.4	9.4	4.7	3.4	4.0	8.7	12.1	13.4
72.5°	10.7	10.1	7.4	4.0	2.7	3.4	6.0	8.7	10.1
75°	8.1	7.4	5.4	2.7	2.0	2.7	4.7	6.7	7.4
77.5°	5.4	5.4	4.0	2.0	2.0	2.0	3.4	4.7	4.7
80°	4.0	3.4	2.7	1.3	1.3	1.3	2.0	3.4	3.4
82.5°	2.7	2.0	2.0	1.3	1.3	1.3	1.3	2.0	2.0
85°	1.3	1.3	1.3	0.7	0.7	0.7	0.7	1.3	1.3
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)