

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: P859012

Luminaire Tested: **LD4C50D010 EU4509040 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859012
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: LD4C50D010 EU4509040 4LBMDSWLI
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

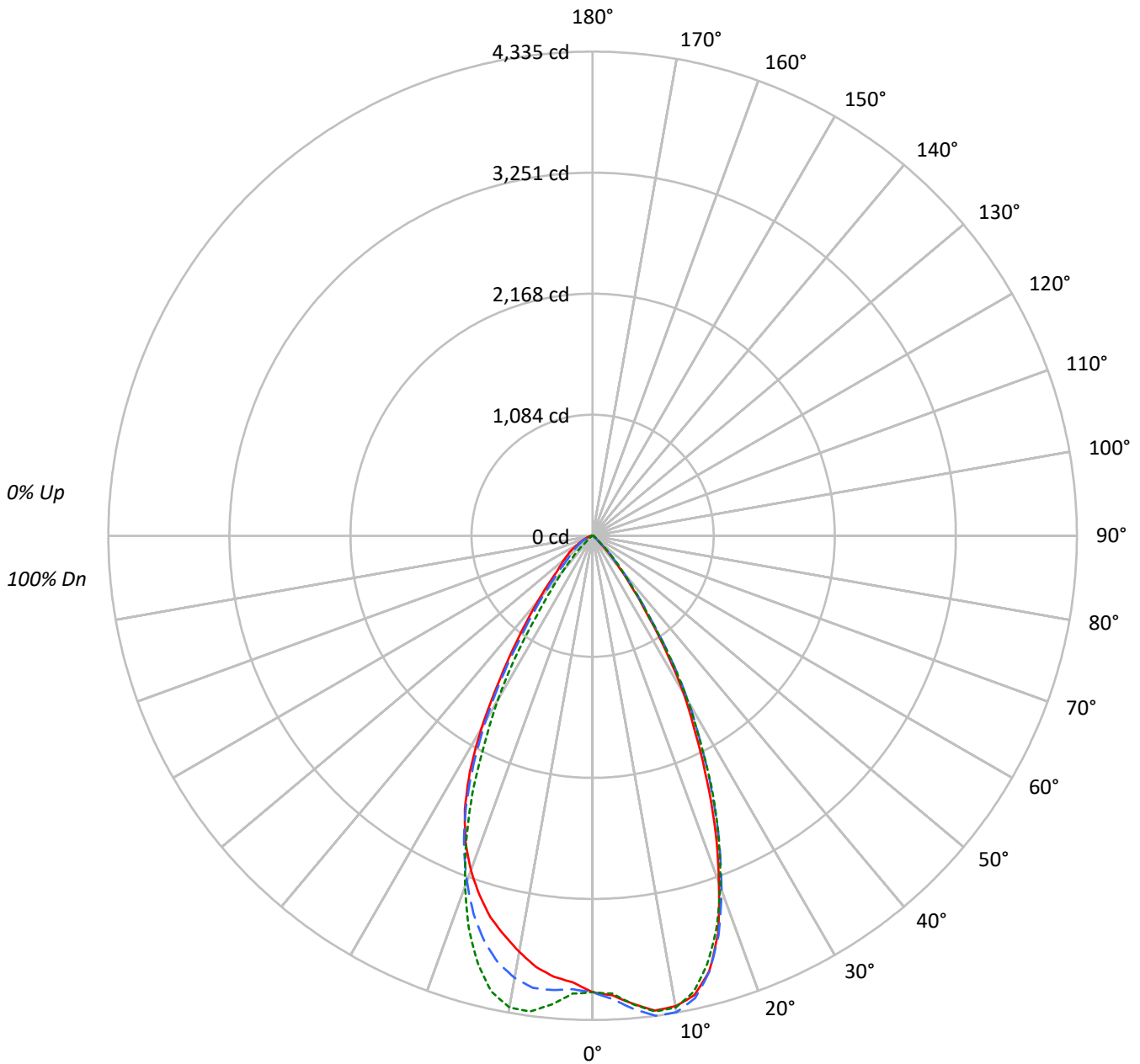
Lumens per Lamp: N/A
Luminaire Lumens: 3633.0 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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			
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°	502016	502016	502016
5°	519115	519460	488753
10°	533488	534885	471725
15°	513328	504425	449645
20°	432220	436233	416492
25°	328325	345012	366619
30°	230918	240437	282101
35°	124585	130449	186661
40°	60108	66379	121114
45°	21388	29154	78722
50°	8027	10149	63072
55°	5997	7197	52112
60°	4816	5504	37790
65°	4070	4884	29273
70°	3017	4023	23097
75°	2658	3987	17278
80°	1981	3962	11886
85°	0	3947	7894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.9	11.0
10°-20°	1073.3	29.5
20°-30°	1164.3	32.0
30°-40°	646.0	17.8
40°-50°	205.8	5.7
50°-60°	82.9	2.3
60°-70°	42.0	1.2
70°-80°	17.3	0.5
80°-90°	3.6	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°	2635.5	72.5
0°-40°	3281.4	90.3
0°-60°	3570.1	98.3
0°-90°	3633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3633.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4086	4086	4086	4086	4086	
5°	4209	4254	4212	4084	3963	405
15°	4036	4039	3966	3754	3535	1104
25°	2422	2523	2545	2682	2705	1106
35°	831	898	870	1150	1245	551
45°	123	145	168	375	453	118
55°	28	28	34	179	243	26
65°	14	14	17	81	101	14
75°	6	6	8	28	36	7
85°	0	0	3	6	6	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°	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3	4086.3
2.5°	4119.9	4156.2	4153.4	4125.5	4103.1	4094.7	4063.9	4027.6	4002.4
5°	4209.4	4254.1	4254.1	4231.7	4212.2	4164.6	4083.5	4005.2	3963.2
7.5°	4287.7	4332.4	4335.2	4318.5	4296.1	4217.8	4083.5	3957.6	3893.3
10°	4276.5	4310.1	4329.6	4312.9	4287.7	4184.2	4019.2	3851.4	3781.4
12.5°	4212.2	4242.9	4240.1	4215.0	4181.4	4075.1	3912.9	3739.5	3661.2
15°	4036.0	4052.7	4038.8	4010.8	3966.0	3884.9	3753.5	3605.2	3535.3
17.5°	3731.1	3753.5	3747.9	3703.1	3686.3	3608.0	3546.5	3431.8	3370.3
20°	3306.0	3375.9	3375.9	3342.3	3336.7	3283.6	3292.0	3230.4	3185.7
22.5°	2878.0	2939.6	2959.1	2945.2	2956.4	2931.2	3009.5	2992.7	2970.3
25°	2422.1	2483.7	2522.8	2517.2	2545.2	2545.2	2682.3	2715.8	2704.6
27.5°	1994.2	2052.9	2097.7	2108.9	2092.1	2122.9	2310.3	2377.4	2377.4
30°	1627.8	1675.4	1717.3	1717.3	1694.9	1717.3	1915.9	1994.2	1988.6
32.5°	1213.9	1267.0	1306.2	1300.6	1281.0	1311.8	1521.5	1599.8	1580.3
35°	830.7	867.0	897.8	886.6	869.8	920.2	1149.5	1247.4	1244.6
37.5°	562.2	595.7	615.3	606.9	601.3	660.1	869.8	978.9	973.3
40°	374.8	397.2	411.1	408.4	413.9	464.3	654.5	755.2	755.2
42.5°	237.7	251.7	265.7	265.7	279.7	332.8	497.9	584.6	584.6
45°	123.1	131.5	145.4	153.8	167.8	223.8	374.8	447.5	453.1
47.5°	58.7	61.5	67.1	69.9	81.1	139.8	288.1	366.4	383.2
50°	42.0	44.8	44.8	44.8	53.1	106.3	243.3	316.1	330.0
52.5°	33.6	33.6	33.6	36.4	42.0	89.5	209.8	274.1	285.3
55°	28.0	28.0	28.0	28.0	33.6	72.7	179.0	234.9	243.3
57.5°	22.4	22.4	22.4	22.4	28.0	58.7	148.2	187.4	190.2
60°	19.6	19.6	19.6	19.6	22.4	50.3	120.3	153.8	153.8
62.5°	16.8	16.8	16.8	16.8	19.6	42.0	100.7	125.9	123.1
65°	14.0	14.0	14.0	14.0	16.8	33.6	81.1	100.7	100.7
67.5°	11.2	11.2	11.2	11.2	14.0	28.0	64.3	81.1	81.1
70°	8.4	8.4	8.4	8.4	11.2	22.4	53.1	64.3	64.3
72.5°	8.4	8.4	8.4	8.4	8.4	16.8	39.2	50.3	47.5
75°	5.6	5.6	5.6	5.6	8.4	14.0	28.0	36.4	36.4
77.5°	5.6	5.6	5.6	5.6	5.6	11.2	22.4	25.2	25.2
80°	2.8	2.8	2.8	2.8	5.6	8.4	14.0	16.8	16.8
82.5°	0.0	2.8	0.0	2.8	2.8	5.6	11.2	11.2	11.2
85°	0.0	0.0	0.0	0.0	2.8	2.8	5.6	8.4	5.6
87.5°	0.0	0.0	0.0	0.0	0.0	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)