

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: P858951

Luminaire Tested: **LD4C50D010 EU4509027 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P858951
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 EU4509027 4LBMDSWMW
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

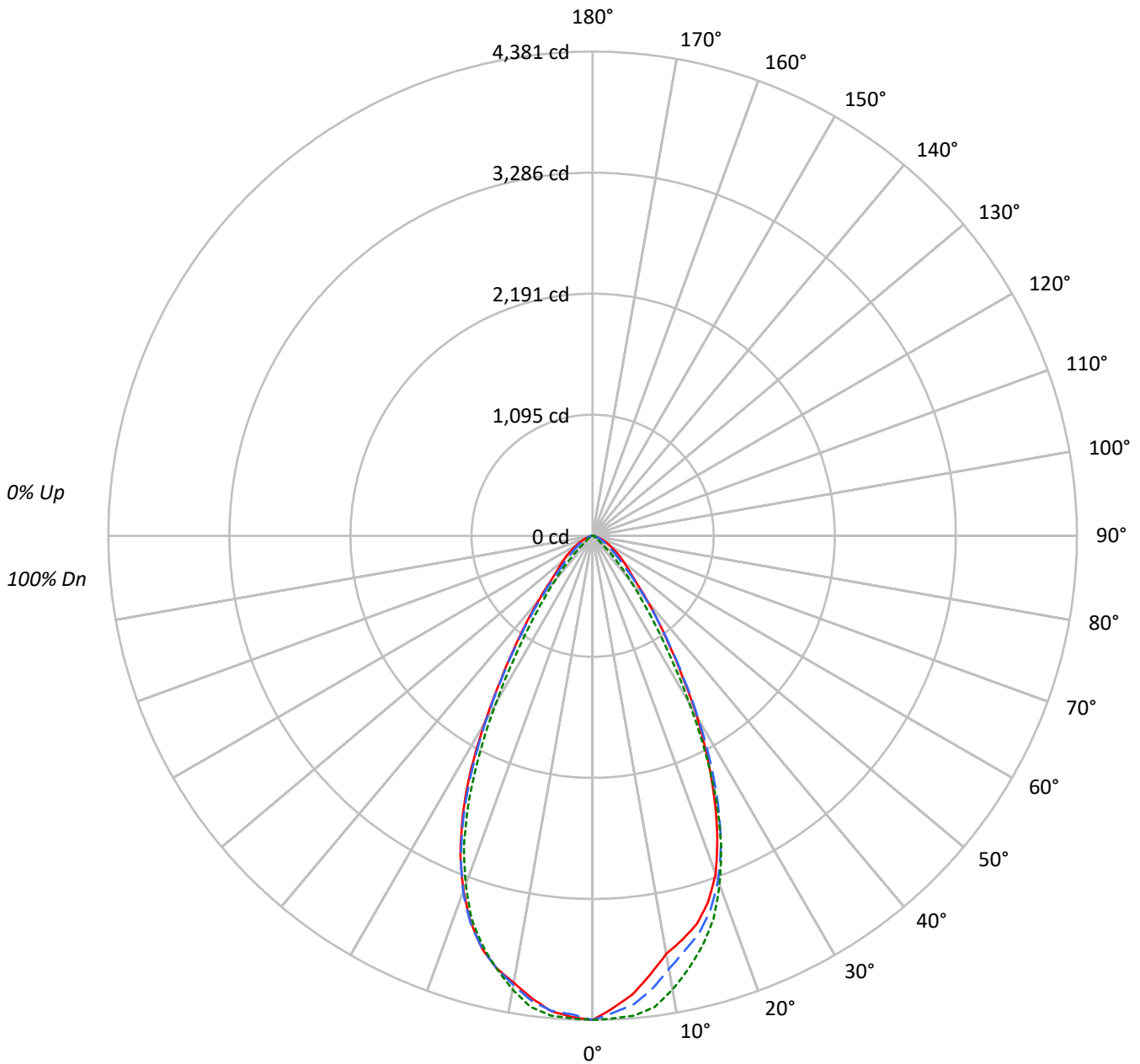
Lumens per Lamp: N/A
Luminaire Lumens: 3988.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (A_{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

TEST NUMBER: P858951

CATALOG NUMBER: LD4C50D010 EU4509027 4LBMDSWMW

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°	538197	538197	538197
5°	513553	537330	532323
10°	478973	519903	512318
15°	462517	488336	491782
20°	425460	438730	446692
25°	352630	359055	376474
30°	268255	248097	275930
35°	181636	148657	183661
40°	123696	85175	119895
45°	85811	42897	81102
50°	69818	17450	65308
55°	56524	10859	51448
60°	44891	8305	40738
65°	35407	6889	31482
70°	26724	6070	24318
75°	19272	4794	17658
80°	14362	4811	11956
85°	9585	4793	9585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.8	10.1
10°-20°	1058.3	26.5
20°-30°	1214.2	30.4
30°-40°	737.6	18.5
40°-50°	316.1	7.9
50°-60°	151.7	3.8
60°-70°	73.7	1.8
70°-80°	27.4	0.7
80°-90°	6.3	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°	2675.2	67.1
0°-40°	3412.8	85.6
0°-60°	3880.6	97.3
0°-90°	3988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3988.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4381	4381	4381	4381	4381	
5°	4164	4256	4357	4313	4316	387
15°	3636	3721	3840	3863	3867	1012
25°	2601	2686	2649	2750	2777	1180
35°	1211	1228	991	1198	1225	776
45°	494	440	247	396	467	401
55°	264	196	51	176	240	238
65°	122	81	24	74	108	124
75°	41	27	10	24	37	45
85°	7	7	3	3	7	9
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°	4380.8	4380.8	4380.8	4380.8	4380.8	4380.8	4380.8	4380.8	4380.8
2.5°	4275.9	4323.3	4319.9	4360.5	4370.6	4360.5	4333.4	4360.5	4357.1
5°	4164.3	4218.4	4255.6	4323.3	4357.1	4350.3	4313.1	4319.9	4316.5
7.5°	4001.9	4069.5	4133.8	4235.3	4299.6	4296.2	4242.1	4231.9	4218.4
10°	3839.5	3903.8	3978.2	4083.1	4167.6	4181.2	4127.0	4113.5	4106.8
12.5°	3744.8	3795.5	3846.3	3937.6	4012.0	4039.1	4008.6	4012.0	4008.6
15°	3636.5	3687.3	3721.1	3788.8	3839.5	3876.7	3863.2	3883.5	3866.6
17.5°	3474.2	3535.1	3548.6	3599.3	3636.5	3660.2	3673.7	3694.0	3667.0
20°	3254.3	3301.6	3318.6	3338.8	3355.8	3386.2	3426.8	3447.1	3416.7
22.5°	2946.4	3037.8	3034.4	3024.2	3041.2	3051.3	3115.6	3149.4	3125.7
25°	2601.4	2696.1	2686.0	2645.4	2648.8	2669.0	2750.2	2794.2	2777.3
27.5°	2239.4	2327.4	2303.7	2225.9	2205.6	2236.0	2340.9	2391.7	2381.5
30°	1891.0	1948.5	1911.3	1772.6	1748.9	1786.1	1921.4	1972.2	1945.1
32.5°	1515.5	1559.5	1542.6	1373.4	1332.8	1370.0	1529.0	1576.4	1546.0
35°	1211.1	1251.6	1228.0	1028.4	991.2	1031.8	1197.5	1251.6	1224.6
37.5°	970.9	1001.3	970.9	757.8	723.9	764.5	923.5	994.6	960.7
40°	771.3	795.0	754.4	558.2	531.1	551.4	700.2	771.3	747.6
42.5°	608.9	625.8	581.8	409.3	378.9	405.9	527.7	592.0	578.5
45°	493.9	493.9	439.8	284.2	246.9	274.0	395.8	463.4	466.8
47.5°	422.9	412.7	345.0	189.4	142.1	179.3	314.6	385.6	395.8
50°	365.3	351.8	284.2	138.7	91.3	128.5	260.5	331.5	341.7
52.5°	314.6	304.5	236.8	108.3	64.3	98.1	219.9	287.5	297.7
55°	263.9	257.1	196.2	84.6	50.7	74.4	175.9	233.4	240.2
57.5°	216.5	206.4	159.0	71.0	40.6	60.9	145.5	192.8	199.6
60°	182.7	172.5	128.5	57.5	33.8	47.4	118.4	159.0	165.8
62.5°	152.2	142.1	104.9	47.4	27.1	40.6	94.7	128.5	135.3
65°	121.8	115.0	81.2	37.2	23.7	30.4	74.4	101.5	108.3
67.5°	98.1	91.3	64.3	30.4	20.3	23.7	57.5	81.2	88.0
70°	74.4	67.7	47.4	23.7	16.9	20.3	44.0	60.9	67.7
72.5°	54.1	50.7	37.2	20.3	13.5	16.9	30.4	44.0	50.7
75°	40.6	37.2	27.1	13.5	10.1	13.5	23.7	33.8	37.2
77.5°	27.1	27.1	20.3	10.1	10.1	10.1	16.9	23.7	23.7
80°	20.3	16.9	13.5	6.8	6.8	6.8	10.1	16.9	16.9
82.5°	13.5	10.1	10.1	6.8	6.8	6.8	6.8	10.1	10.1
85°	6.8	6.8	6.8	3.4	3.4	3.4	3.4	6.8	6.8
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)