

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: P858950

Luminaire Tested: **LD4C50D010 EU4509027 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P858950
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 EU4509027 4LBMDSWLI
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

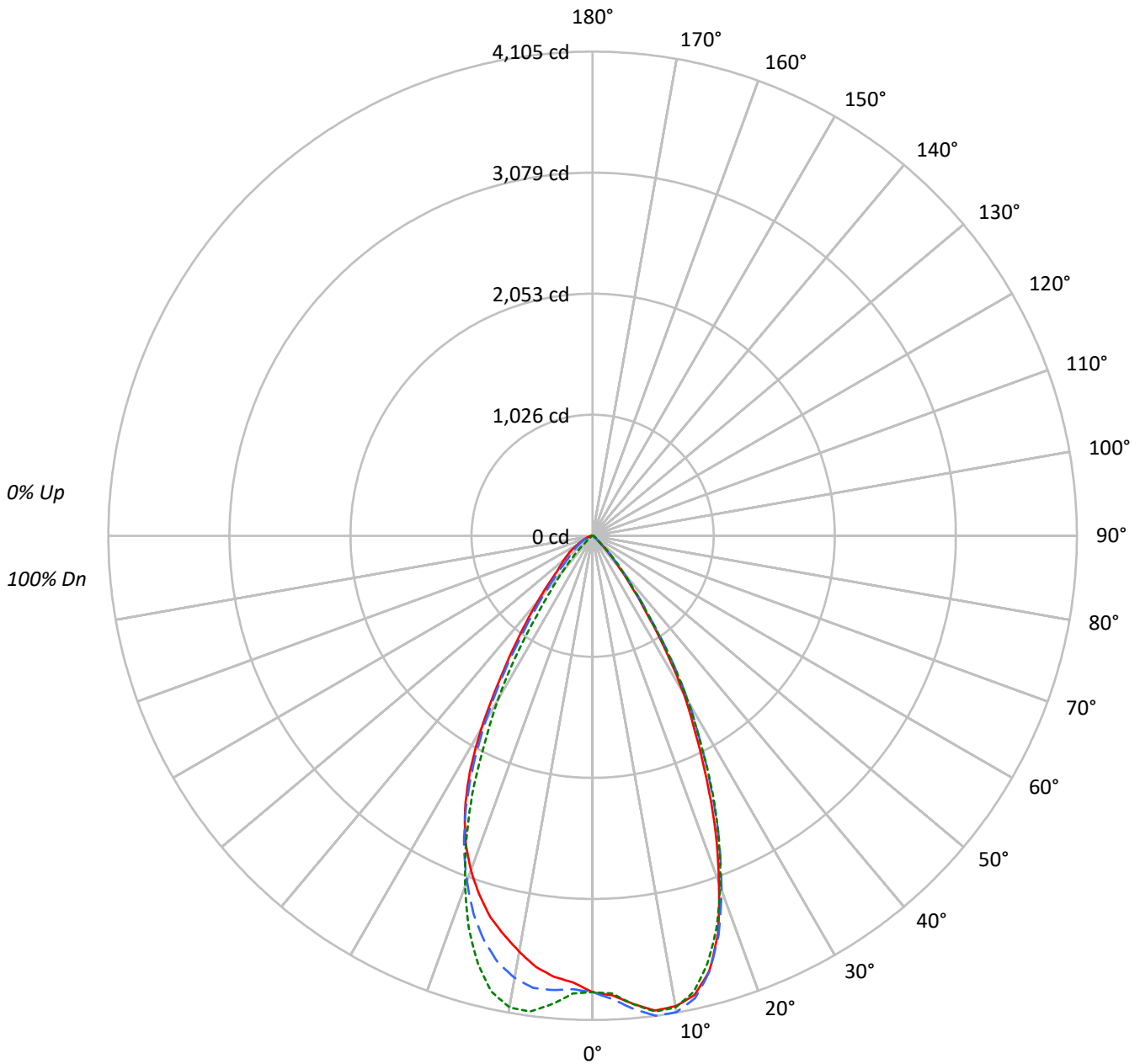
Lumens per Lamp: N/A
Luminaire Lumens: 3440.0 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P858950

CATALOG NUMBER: LD4C50D010 EU4509027 4LBMDSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P858950

CATALOG NUMBER: LD4C50D010 EU4509027 4LBMDSWLI

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	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°	475345	475345	475345
5°	491540	491860	462793
10°	505145	506467	446675
15°	486059	477626	425759
20°	409249	413067	394371
25°	310893	326685	347140
30°	218647	227669	267120
35°	117971	123521	176747
40°	56917	62867	114683
45°	20241	27607	74535
50°	7588	9614	59727
55°	5676	6811	49349
60°	4546	5209	35800
65°	3837	4622	27703
70°	2838	3808	21875
75°	2516	3750	16329
80°	1839	3750	11249
85°	0	3665	7471



TEST NUMBER: P858950

CATALOG NUMBER: LD4C50D010 EU4509027 4LBMDSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.7	11.0
10°-20°	1016.3	29.5
20°-30°	1102.4	32.0
30°-40°	611.7	17.8
40°-50°	194.8	5.7
50°-60°	78.5	2.3
60°-70°	39.7	1.2
70°-80°	16.4	0.5
80°-90°	3.4	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°	2495.5	72.5
0°-40°	3107.1	90.3
0°-60°	3380.5	98.3
0°-90°	3440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3440.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3869	3869	3869	3869	3869	
5°	3986	4028	3988	3867	3753	383
15°	3822	3824	3755	3554	3348	1045
25°	2294	2389	2410	2540	2561	1048
35°	787	850	824	1088	1178	522
45°	116	138	159	355	429	112
55°	26	26	32	170	230	24
65°	13	13	16	77	95	13
75°	5	5	8	26	34	6
85°	0	0	3	5	5	0
90°	0	0	0	0	0	



TEST NUMBER: P858950

CATALOG NUMBER: LD4C50D010 EU4509027 4LBMDSWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3869.2	3869.2	3869.2	3869.2	3869.2	3869.2	3869.2	3869.2	3869.2
2.5°	3901.0	3935.4	3932.8	3906.3	3885.1	3877.2	3848.0	3813.6	3789.8
5°	3985.8	4028.1	4028.1	4006.9	3988.4	3943.4	3866.6	3792.4	3752.7
7.5°	4059.9	4102.3	4104.9	4089.0	4067.9	3993.7	3866.6	3747.4	3686.5
10°	4049.3	4081.1	4099.6	4083.7	4059.9	3961.9	3805.7	3646.8	3580.6
12.5°	3988.4	4017.5	4014.9	3991.1	3959.3	3858.6	3705.0	3540.8	3466.7
15°	3821.6	3837.4	3824.2	3797.7	3755.3	3678.5	3554.1	3413.7	3347.5
17.5°	3532.9	3554.1	3548.8	3506.4	3490.5	3416.4	3358.1	3249.5	3191.3
20°	3130.3	3196.5	3196.5	3164.8	3159.5	3109.2	3117.1	3058.8	3016.5
22.5°	2725.1	2783.4	2801.9	2788.7	2799.3	2775.5	2849.6	2833.7	2812.5
25°	2293.5	2351.7	2388.8	2383.5	2410.0	2410.0	2539.8	2571.5	2560.9
27.5°	1888.3	1943.9	1986.3	1996.8	1981.0	2010.1	2187.5	2251.1	2251.1
30°	1541.3	1586.4	1626.1	1626.1	1604.9	1626.1	1814.1	1888.3	1883.0
32.5°	1149.4	1199.7	1236.8	1231.5	1212.9	1242.1	1440.7	1514.9	1496.3
35°	786.6	821.0	850.1	839.5	823.6	871.3	1088.5	1181.2	1178.5
37.5°	532.3	564.1	582.6	574.7	569.4	625.0	823.6	926.9	921.6
40°	354.9	376.1	389.3	386.7	392.0	439.6	619.7	715.1	715.1
42.5°	225.1	238.4	251.6	251.6	264.8	315.2	471.4	553.5	553.5
45°	116.5	124.5	137.7	145.7	158.9	211.9	354.9	423.7	429.0
47.5°	55.6	58.3	63.6	66.2	76.8	132.4	272.8	346.9	362.8
50°	39.7	42.4	42.4	42.4	50.3	100.6	230.4	299.3	312.5
52.5°	31.8	31.8	31.8	34.4	39.7	84.7	198.6	259.5	270.1
55°	26.5	26.5	26.5	26.5	31.8	68.9	169.5	222.5	230.4
57.5°	21.2	21.2	21.2	21.2	26.5	55.6	140.4	177.4	180.1
60°	18.5	18.5	18.5	18.5	21.2	47.7	113.9	145.7	145.7
62.5°	15.9	15.9	15.9	15.9	18.5	39.7	95.3	119.2	116.5
65°	13.2	13.2	13.2	13.2	15.9	31.8	76.8	95.3	95.3
67.5°	10.6	10.6	10.6	10.6	13.2	26.5	60.9	76.8	76.8
70°	7.9	7.9	7.9	7.9	10.6	21.2	50.3	60.9	60.9
72.5°	7.9	7.9	7.9	7.9	7.9	15.9	37.1	47.7	45.0
75°	5.3	5.3	5.3	5.3	7.9	13.2	26.5	34.4	34.4
77.5°	5.3	5.3	5.3	5.3	5.3	10.6	21.2	23.8	23.8
80°	2.6	2.6	2.6	2.6	5.3	7.9	13.2	15.9	15.9
82.5°	0.0	2.6	0.0	2.6	2.6	5.3	10.6	10.6	10.6
85°	0.0	0.0	0.0	0.0	2.6	2.6	5.3	7.9	5.3
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6
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)