

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: P858992

Luminaire Tested: **LD4C50D010 EU4509035 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P858992
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 EU4509035 4LBMDSWMW
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

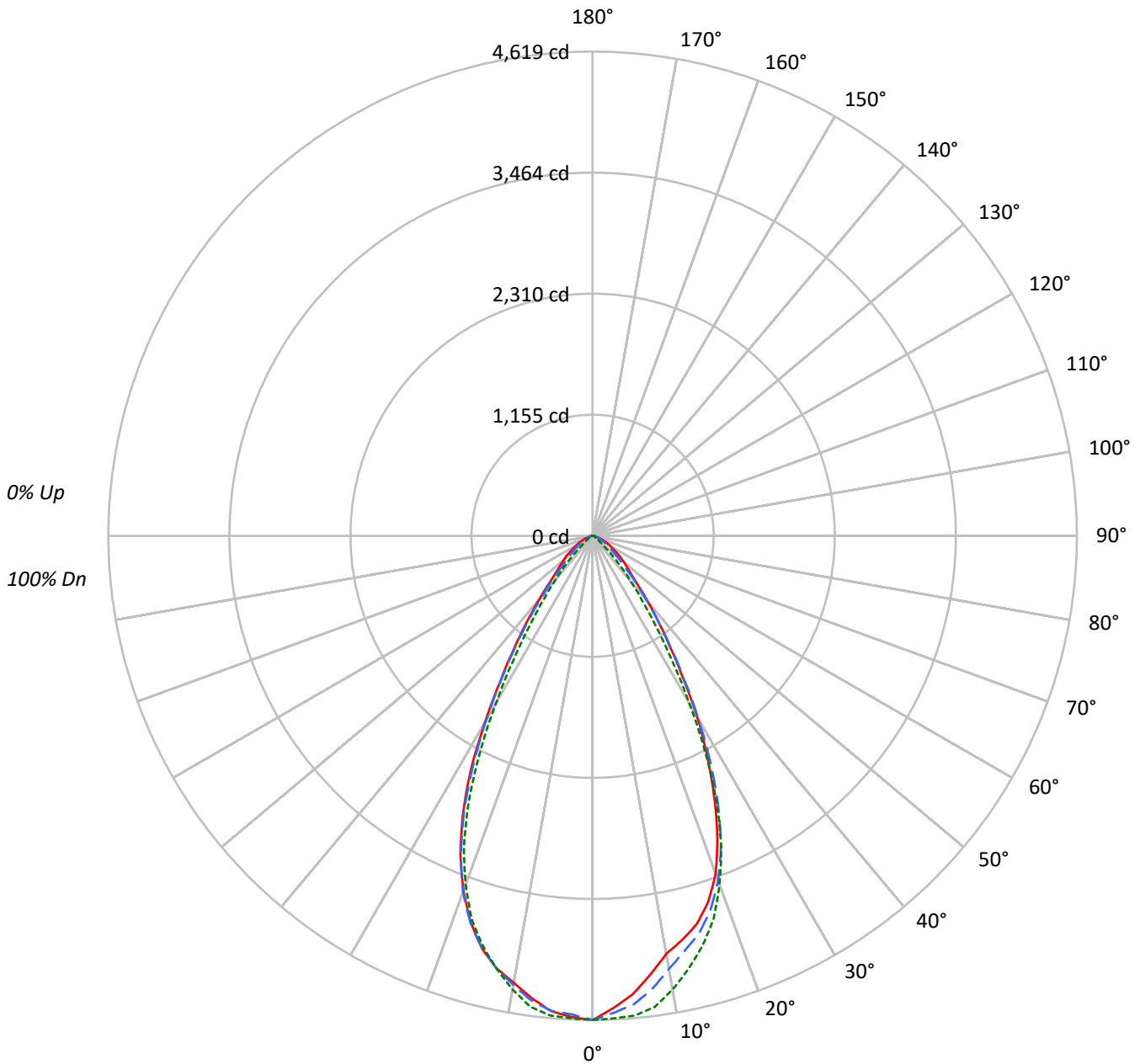
Lumens per Lamp: N/A
Luminaire Lumens: 4205.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P858992

CATALOG NUMBER: LD4C50D010 EU4509035 4LBMDSWMW

Luminous Intensity Polar Plot





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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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	567472	567472	567472
5°	541486	566569	561291
10°	505033	548196	540187
15°	487687	514905	518543
20°	448614	462603	470996
25°	371811	378588	396956
30°	282853	261602	290953
35°	191505	156740	193650
40°	130432	89809	126423
45°	90484	45242	85515
50°	73622	18405	68863
55°	59587	11459	54233
60°	47323	8772	42950
65°	37325	7267	33168
70°	28197	6394	25611
75°	20316	5079	18607
80°	15140	5023	12593
85°	10008	5075	10008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.7	10.1
10°-20°	1115.9	26.5
20°-30°	1280.3	30.4
30°-40°	777.7	18.5
40°-50°	333.3	7.9
50°-60°	159.9	3.8
60°-70°	77.7	1.8
70°-80°	28.8	0.7
80°-90°	6.6	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°	2820.8	67.1
0°-40°	3598.5	85.6
0°-60°	4091.8	97.3
0°-90°	4205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4205.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4619	4619	4619	4619	4619	
5°	4391	4487	4594	4548	4551	408
15°	3834	3924	4048	4073	4077	1068
25°	2743	2832	2793	2900	2928	1244
35°	1277	1295	1045	1263	1291	818
45°	521	464	260	417	492	423
55°	278	207	54	186	253	251
65°	128	86	25	78	114	130
75°	43	28	11	25	39	47
85°	7	7	4	4	7	10
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°	4619.1	4619.1	4619.1	4619.1	4619.1	4619.1	4619.1	4619.1	4619.1
2.5°	4508.6	4558.5	4554.9	4597.7	4608.4	4597.7	4569.2	4597.7	4594.2
5°	4390.8	4447.9	4487.2	4558.5	4594.2	4587.0	4547.8	4554.9	4551.4
7.5°	4219.6	4291.0	4358.7	4465.8	4533.5	4530.0	4472.9	4462.2	4447.9
10°	4048.4	4116.2	4194.7	4305.2	4394.4	4408.7	4351.6	4337.3	4330.2
12.5°	3948.6	4002.1	4055.6	4151.9	4230.3	4258.9	4226.8	4230.3	4226.8
15°	3834.4	3887.9	3923.6	3994.9	4048.4	4087.7	4073.4	4094.8	4077.0
17.5°	3663.2	3727.4	3741.7	3795.2	3834.4	3859.4	3873.6	3895.1	3866.5
20°	3431.4	3481.3	3499.1	3520.5	3538.4	3570.5	3613.3	3634.7	3602.6
22.5°	3106.8	3203.1	3199.5	3188.8	3206.6	3217.3	3285.1	3320.8	3295.8
25°	2742.9	2842.8	2832.1	2789.3	2792.9	2814.3	2899.9	2946.3	2928.4
27.5°	2361.3	2454.0	2429.1	2347.0	2325.6	2357.7	2468.3	2521.8	2511.1
30°	1993.9	2054.5	2015.3	1869.1	1844.1	1883.3	2026.0	2079.5	2051.0
32.5°	1598.0	1644.3	1626.5	1448.2	1405.4	1444.6	1612.2	1662.2	1630.1
35°	1276.9	1319.8	1294.8	1084.3	1045.1	1087.9	1262.7	1319.8	1291.2
37.5°	1023.7	1055.8	1023.7	799.0	763.3	806.1	973.8	1048.7	1013.0
40°	813.3	838.2	795.4	588.5	560.0	581.4	738.3	813.3	788.3
42.5°	642.0	659.9	613.5	431.6	399.5	428.0	556.4	624.2	609.9
45°	520.8	520.8	463.7	299.6	260.4	288.9	417.3	488.7	492.2
47.5°	445.9	435.2	363.8	199.7	149.8	189.0	331.7	406.6	417.3
50°	385.2	371.0	299.6	146.2	96.3	135.5	274.7	349.6	360.3
52.5°	331.7	321.0	249.7	114.1	67.8	103.4	231.8	303.2	313.9
55°	278.2	271.1	206.9	89.2	53.5	78.5	185.5	246.1	253.2
57.5°	228.3	217.6	167.6	74.9	42.8	64.2	153.4	203.3	210.4
60°	192.6	181.9	135.5	60.6	35.7	49.9	124.8	167.6	174.8
62.5°	160.5	149.8	110.6	49.9	28.5	42.8	99.9	135.5	142.7
65°	128.4	121.3	85.6	39.2	25.0	32.1	78.5	107.0	114.1
67.5°	103.4	96.3	67.8	32.1	21.4	25.0	60.6	85.6	92.7
70°	78.5	71.3	49.9	25.0	17.8	21.4	46.4	64.2	71.3
72.5°	57.1	53.5	39.2	21.4	14.3	17.8	32.1	46.4	53.5
75°	42.8	39.2	28.5	14.3	10.7	14.3	25.0	35.7	39.2
77.5°	28.5	28.5	21.4	10.7	10.7	10.7	17.8	25.0	25.0
80°	21.4	17.8	14.3	7.1	7.1	7.1	10.7	17.8	17.8
82.5°	14.3	10.7	10.7	7.1	7.1	7.1	7.1	10.7	10.7
85°	7.1	7.1	7.1	3.6	3.6	3.6	3.6	7.1	7.1
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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)