

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: P859034

Luminaire Tested: **LD4C50D010 EU4509050 4LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859034
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 EU4509050 4LBMDSWMW
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

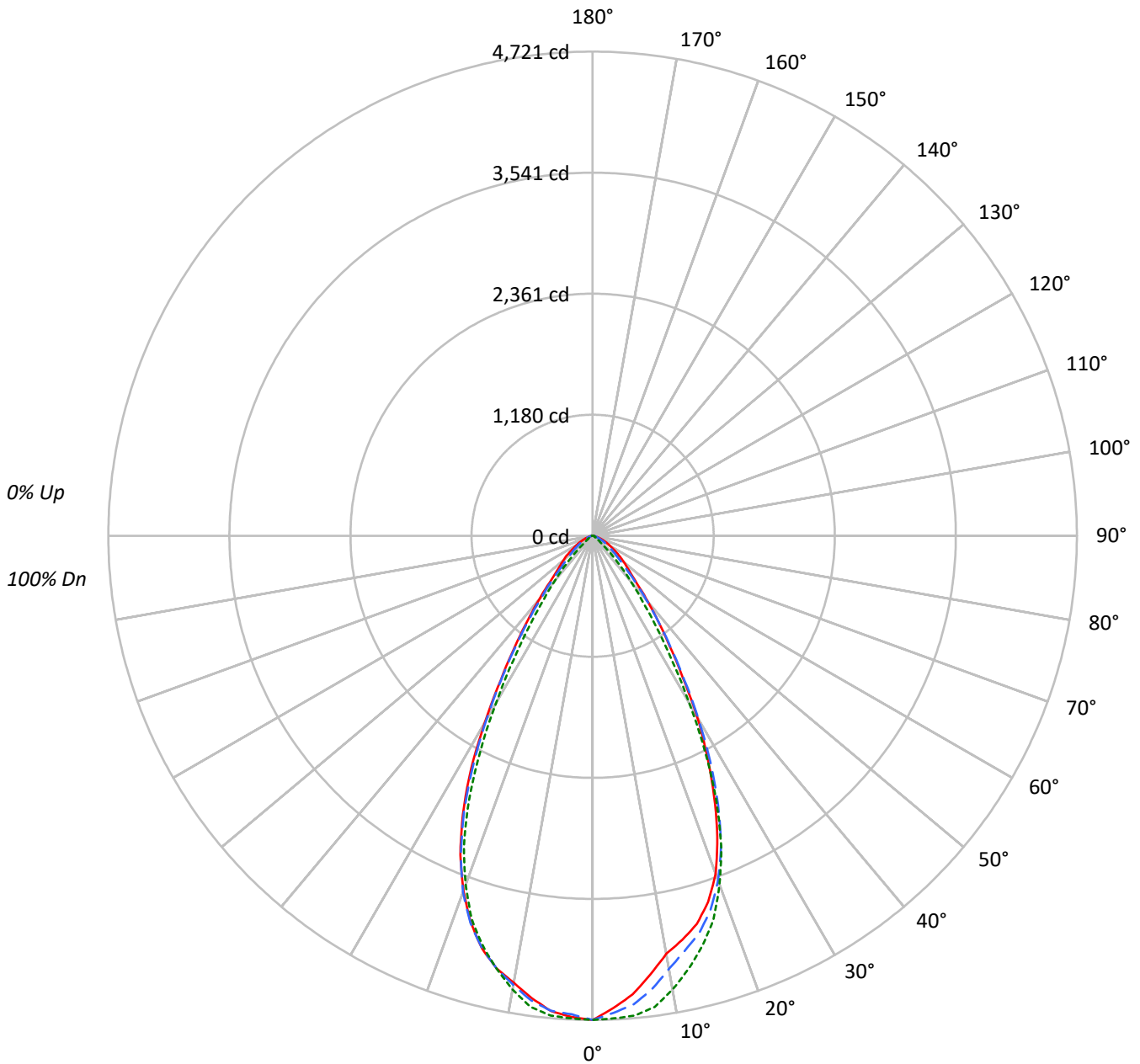
Lumens per Lamp: N/A
Luminaire Lumens: 4298.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	580028	580028	580028
5°	553473	579099	573697
10°	516210	560321	552138
15°	498472	526301	530002
20°	458524	472827	481403
25°	380039	386952	405740
30°	289109	267390	297379
35°	195749	160205	197939
40°	133303	91798	129213
45°	92482	46232	87409
50°	75246	18807	70373
55°	60915	11716	55453
60°	48380	8968	43883
65°	38139	7413	33924
70°	28808	6537	26186
75°	20743	5174	19034
80°	15494	5165	12876
85°	10290	5075	10290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.1	10.1
10°-20°	1140.5	26.5
20°-30°	1308.6	30.4
30°-40°	794.9	18.5
40°-50°	340.7	7.9
50°-60°	163.4	3.8
60°-70°	79.5	1.8
70°-80°	29.5	0.7
80°-90°	6.8	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°	2883.2	67.1
0°-40°	3678.1	85.6
0°-60°	4182.3	97.3
0°-90°	4298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4298.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4721	4721	4721	4721	4721	
5°	4488	4586	4696	4648	4652	417
15°	3919	4010	4138	4164	4167	1091
25°	2804	2895	2855	2964	2993	1272
35°	1305	1323	1068	1291	1320	836
45°	532	474	266	427	503	432
55°	284	212	55	190	259	257
65°	131	88	26	80	117	133
75°	44	29	11	26	40	48
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°	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3	4721.3
2.5°	4608.3	4659.3	4655.7	4699.4	4710.4	4699.4	4670.2	4699.4	4695.8
5°	4488.0	4546.3	4586.4	4659.3	4695.8	4688.5	4648.4	4655.7	4652.0
7.5°	4313.0	4385.9	4455.1	4564.5	4633.8	4630.1	4571.8	4560.9	4546.3
10°	4138.0	4207.2	4287.4	4400.5	4491.6	4506.2	4447.9	4433.3	4426.0
12.5°	4035.9	4090.6	4145.3	4243.7	4323.9	4353.1	4320.3	4323.9	4320.3
15°	3919.2	3973.9	4010.4	4083.3	4138.0	4178.1	4163.5	4185.4	4167.1
17.5°	3744.2	3809.8	3824.4	3879.1	3919.2	3944.7	3959.3	3981.2	3952.0
20°	3507.2	3558.3	3576.5	3598.4	3616.6	3649.4	3693.2	3715.1	3682.2
22.5°	3175.5	3273.9	3270.3	3259.3	3277.6	3288.5	3357.8	3394.2	3368.7
25°	2803.6	2905.7	2894.8	2851.0	2854.6	2876.5	2964.0	3011.4	2993.2
27.5°	2413.5	2508.3	2482.8	2398.9	2377.1	2409.9	2522.9	2577.6	2566.6
30°	2038.0	2100.0	2059.9	1910.4	1884.9	1925.0	2070.8	2125.5	2096.3
32.5°	1633.3	1680.7	1662.5	1480.2	1436.4	1476.5	1647.9	1698.9	1666.1
35°	1305.2	1348.9	1323.4	1108.3	1068.2	1112.0	1290.6	1348.9	1319.8
37.5°	1046.3	1079.2	1046.3	816.7	780.2	823.9	995.3	1071.9	1035.4
40°	831.2	856.8	813.0	601.6	572.4	594.3	754.7	831.2	805.7
42.5°	656.2	674.5	627.1	441.1	408.3	437.5	568.7	638.0	623.4
45°	532.3	532.3	474.0	306.2	266.1	295.3	426.6	499.5	503.1
47.5°	455.7	444.8	371.9	204.2	153.1	193.2	339.1	415.6	426.6
50°	393.7	379.2	306.2	149.5	98.4	138.5	280.7	357.3	368.2
52.5°	339.1	328.1	255.2	116.7	69.3	105.7	237.0	309.9	320.8
55°	284.4	277.1	211.5	91.1	54.7	80.2	189.6	251.6	258.9
57.5°	233.3	222.4	171.4	76.6	43.7	65.6	156.8	207.8	215.1
60°	196.9	185.9	138.5	62.0	36.5	51.0	127.6	171.4	178.6
62.5°	164.1	153.1	113.0	51.0	29.2	43.7	102.1	138.5	145.8
65°	131.2	124.0	87.5	40.1	25.5	32.8	80.2	109.4	116.7
67.5°	105.7	98.4	69.3	32.8	21.9	25.5	62.0	87.5	94.8
70°	80.2	72.9	51.0	25.5	18.2	21.9	47.4	65.6	72.9
72.5°	58.3	54.7	40.1	21.9	14.6	18.2	32.8	47.4	54.7
75°	43.7	40.1	29.2	14.6	10.9	14.6	25.5	36.5	40.1
77.5°	29.2	29.2	21.9	10.9	10.9	10.9	18.2	25.5	25.5
80°	21.9	18.2	14.6	7.3	7.3	7.3	10.9	18.2	18.2
82.5°	14.6	10.9	10.9	7.3	7.3	7.3	7.3	10.9	10.9
85°	7.3	7.3	7.3	3.6	3.6	3.6	3.6	7.3	7.3
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)