

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: P859030

Luminaire Tested: **LD4C50D010 EU4509050 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859030
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 4LBMDDWLI
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

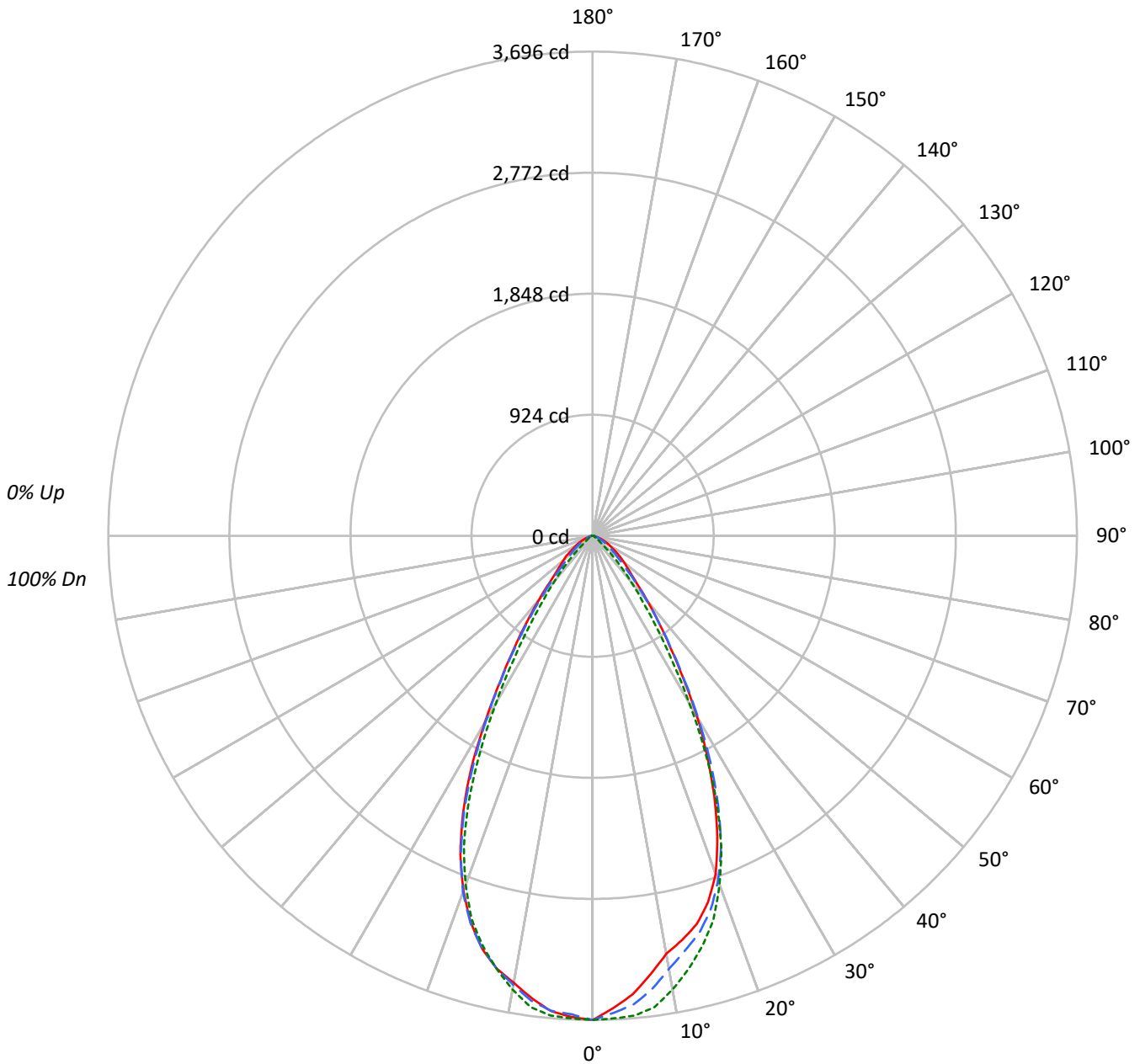
Lumens per Lamp: N/A
Luminaire Lumens: 3365.0 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	454116	454116	454116
5°	433319	453384	449166
10°	404148	438691	432279
15°	390261	412049	414948
20°	358993	370184	376904
25°	297541	302963	317657
30°	226350	209341	232833
35°	153261	125425	154971
40°	104371	71864	101164
45°	72398	36208	68437
50°	58924	14736	55102
55°	47678	9167	43416
60°	37863	7003	34374
65°	29884	5814	26541
70°	22558	5137	20510
75°	16281	4082	14905
80°	12098	4033	10117
85°	8035	4088	8035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.9	10.1
10°-20°	892.9	26.5
20°-30°	1024.5	30.4
30°-40°	622.4	18.5
40°-50°	266.7	7.9
50°-60°	128.0	3.8
60°-70°	62.2	1.8
70°-80°	23.1	0.7
80°-90°	5.3	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°	2257.3	67.1
0°-40°	2879.7	85.6
0°-60°	3274.4	97.3
0°-90°	3365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3365.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3696	3696	3696	3696	3696	
5°	3514	3591	3676	3639	3642	326
15°	3068	3140	3240	3260	3262	854
25°	2195	2266	2235	2321	2343	996
35°	1022	1036	836	1010	1033	655
45°	417	371	208	334	394	339
55°	223	166	43	148	203	201
65°	103	68	20	63	91	104
75°	34	23	9	20	31	38
85°	6	6	3	3	6	8
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°	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4	3696.4
2.5°	3607.9	3647.9	3645.0	3679.3	3687.8	3679.3	3656.4	3679.3	3676.4
5°	3513.7	3559.4	3590.8	3647.9	3676.4	3670.7	3639.3	3645.0	3642.2
7.5°	3376.7	3433.8	3488.0	3573.7	3627.9	3625.0	3579.4	3570.8	3559.4
10°	3239.7	3293.9	3356.7	3445.2	3516.6	3528.0	3482.3	3470.9	3465.2
12.5°	3159.8	3202.6	3245.4	3322.5	3385.3	3408.1	3382.4	3385.3	3382.4
15°	3068.4	3111.3	3139.8	3196.9	3239.7	3271.1	3259.7	3276.8	3262.5
17.5°	2931.4	2982.8	2994.2	3037.0	3068.4	3088.4	3099.8	3117.0	3094.1
20°	2745.9	2785.9	2800.1	2817.3	2831.5	2857.2	2891.5	2908.6	2882.9
22.5°	2486.2	2563.2	2560.4	2551.8	2566.1	2574.6	2628.9	2657.4	2637.4
25°	2195.0	2274.9	2266.4	2232.1	2235.0	2252.1	2320.6	2357.7	2343.4
27.5°	1889.6	1963.8	1943.8	1878.2	1861.0	1886.7	1975.2	2018.0	2009.5
30°	1595.6	1644.1	1612.7	1495.7	1475.7	1507.1	1621.3	1664.1	1641.3
32.5°	1278.8	1315.9	1301.6	1158.9	1124.6	1156.0	1290.2	1330.1	1304.4
35°	1021.9	1056.1	1036.1	867.7	836.3	870.6	1010.4	1056.1	1033.3
37.5°	819.2	844.9	819.2	639.4	610.8	645.1	779.2	839.2	810.6
40°	650.8	670.8	636.5	471.0	448.1	465.3	590.9	650.8	630.8
42.5°	513.8	528.1	491.0	345.4	319.7	342.5	445.3	499.5	488.1
45°	416.7	416.7	371.1	239.8	208.4	231.2	334.0	391.0	393.9
47.5°	356.8	348.2	291.1	159.8	119.9	151.3	265.5	325.4	334.0
50°	308.3	296.9	239.8	117.0	77.1	108.5	219.8	279.7	288.3
52.5°	265.5	256.9	199.8	91.3	54.2	82.8	185.5	242.6	251.2
55°	222.6	216.9	165.6	71.4	42.8	62.8	148.4	197.0	202.7
57.5°	182.7	174.1	134.2	59.9	34.3	51.4	122.7	162.7	168.4
60°	154.1	145.6	108.5	48.5	28.5	40.0	99.9	134.2	139.9
62.5°	128.4	119.9	88.5	40.0	22.8	34.3	79.9	108.5	114.2
65°	102.8	97.0	68.5	31.4	20.0	25.7	62.8	85.6	91.3
67.5°	82.8	77.1	54.2	25.7	17.1	20.0	48.5	68.5	74.2
70°	62.8	57.1	40.0	20.0	14.3	17.1	37.1	51.4	57.1
72.5°	45.7	42.8	31.4	17.1	11.4	14.3	25.7	37.1	42.8
75°	34.3	31.4	22.8	11.4	8.6	11.4	20.0	28.5	31.4
77.5°	22.8	22.8	17.1	8.6	8.6	8.6	14.3	20.0	20.0
80°	17.1	14.3	11.4	5.7	5.7	5.7	8.6	14.3	14.3
82.5°	11.4	8.6	8.6	5.7	5.7	5.7	5.7	8.6	8.6
85°	5.7	5.7	5.7	2.9	2.9	2.9	2.9	5.7	5.7
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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)