

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: P840250

Luminaire Tested: **LD4C75D010 EU4759030 4LBCSSQMMS**

Issue Date: 5/25/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P209253)
Test Lab: INNOVATION CENTER
Issue Date: 5/25/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C75D010 EU4759030 4LBCSSQMMS
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

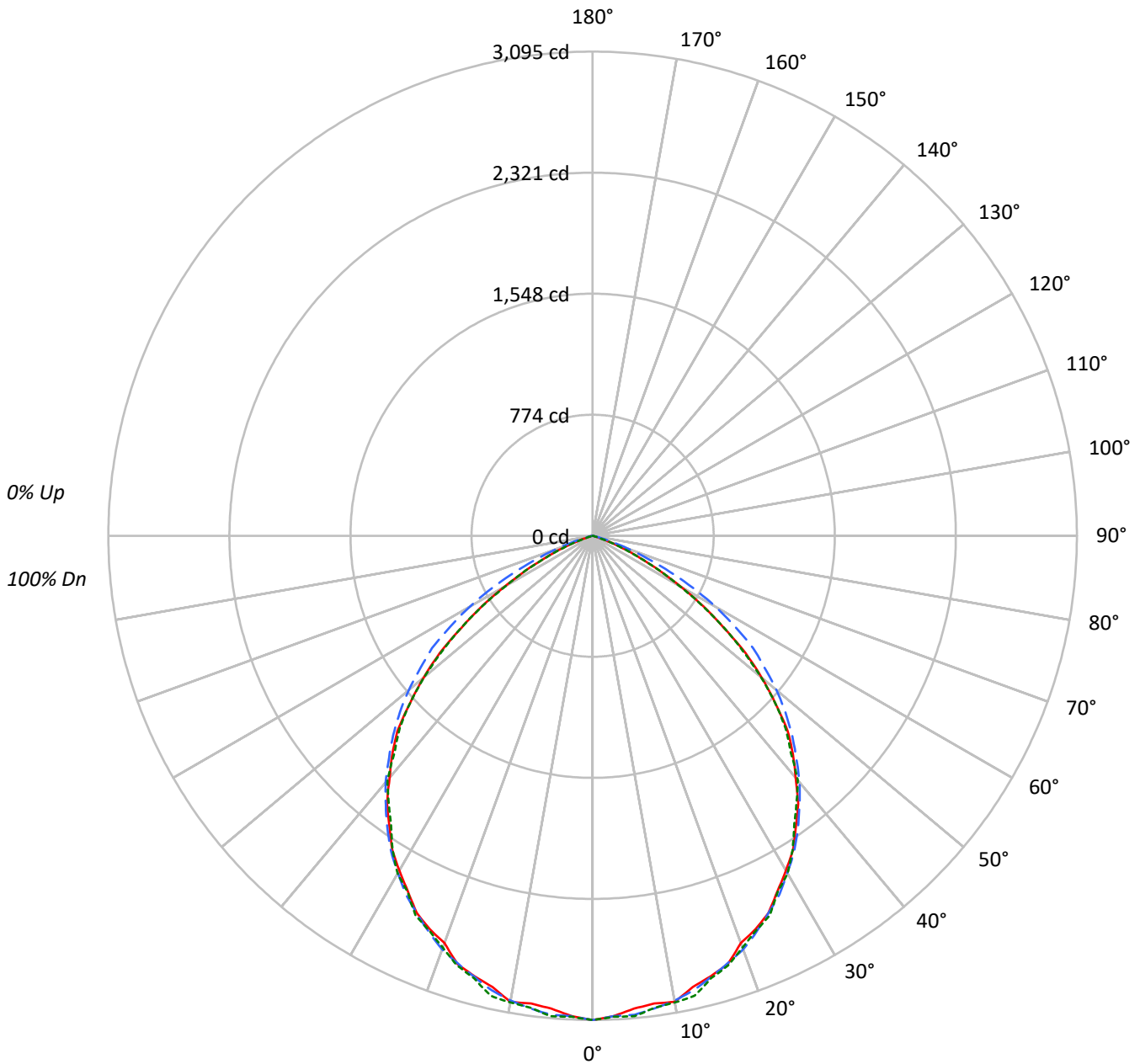
Lumens per Lamp: N/A
Luminaire Lumens: 6612.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
Input Voltage (V):
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				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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89				89
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77				77
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67				67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59				59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52				52
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46				46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41				41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37				37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33				33
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	31				31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	298662	298662	298662
5°	293846	297662	298515
10°	296382	295519	296803
15°	291187	291617	292496
20°	284417	288925	287580
25°	283183	283183	285057
30°	275286	277247	277748
35°	266703	269306	264630
40°	254194	259157	256953
45°	240572	245975	238170
50°	211865	230344	210544
55°	171588	210784	172345
60°	125551	174780	123023
65°	76302	124476	74293
70°	29763	67002	28550
75°	3281	18044	3281
80°	2500	2500	2500
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.2	4.4
10°-20°	826.8	12.5
20°-30°	1226.7	18.6
30°-40°	1421.4	21.5
40°-50°	1362.8	20.6
50°-60°	1002.0	15.2
60°-70°	432.8	6.5
70°-80°	46.7	0.7
80°-90°	0.6	0.0
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°	2345.6	35.5
0°-40°	3767.0	57.0
0°-60°	6131.9	92.7
0°-90°	6612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3095	3095	3095	3095	3095	
5°	3034	3064	3073	3078	3082	289
15°	2915	2933	2919	2924	2928	822
25°	2660	2656	2660	2664	2678	1218
35°	2264	2278	2286	2282	2247	1416
45°	1763	1768	1803	1776	1745	1340
55°	1020	1126	1253	1121	1024	918
65°	334	418	545	413	325	344
75°	9	13	48	9	9	27
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3
2.5°	3073.2	3108.4	3112.9	3090.8	3082.0	3068.9	3099.6	3077.7	3086.5	3077.7	3073.2
5°	3033.8	3073.2	3077.7	3077.7	3068.9	3064.4	3077.7	3073.2	3068.9	3060.1	3073.2
7.5°	3016.2	3038.1	3060.1	3033.8	3046.9	3042.5	3073.2	3060.1	3055.6	3055.6	3046.9
10°	3025.0	3020.5	3038.1	3011.7	3020.5	3011.7	3038.1	3038.1	3029.3	3020.5	3016.2
12.5°	2954.5	2989.6	2989.6	2985.3	2976.5	2963.3	2989.6	3007.4	2980.8	2980.8	2976.5
15°	2915.0	2923.8	2928.1	2928.1	2923.8	2932.6	2945.7	2928.1	2932.6	2910.5	2919.3
17.5°	2871.1	2853.5	2866.6	2857.8	2862.3	2871.1	2888.6	2888.6	2862.3	2857.8	2866.6
20°	2769.9	2822.6	2827.1	2800.7	2805.0	2805.0	2835.9	2809.5	2827.1	2805.0	2813.8
22.5°	2721.4	2756.6	2761.1	2725.9	2747.8	2721.4	2752.3	2712.7	2756.6	2725.9	2739.0
25°	2659.9	2655.6	2668.7	2651.1	2655.6	2655.6	2677.5	2659.9	2673.2	2655.6	2659.9
27.5°	2558.9	2594.1	2589.6	2572.0	2580.8	2576.5	2620.4	2572.0	2598.4	2576.5	2585.3
30°	2470.8	2501.7	2492.9	2475.3	2475.3	2462.1	2510.5	2497.2	2492.9	2492.9	2488.4
32.5°	2382.9	2387.4	2378.6	2382.9	2387.4	2369.8	2409.3	2391.7	2387.4	2391.7	2396.2
35°	2264.2	2264.2	2273.0	2259.9	2277.5	2277.5	2312.6	2290.6	2286.3	2273.0	2286.3
37.5°	2158.7	2145.6	2149.9	2149.9	2158.7	2167.5	2185.1	2176.3	2176.3	2163.2	2172.0
40°	2018.1	2009.3	2022.4	2022.4	2035.7	2035.7	2053.2	2044.4	2057.5	2057.5	2057.5
42.5°	1895.0	1895.0	1886.2	1899.3	1903.8	1899.3	1930.2	1925.7	1930.2	1921.4	1925.7
45°	1763.0	1763.0	1754.2	1749.9	1771.8	1767.5	1802.6	1789.4	1806.9	1798.2	1802.6
47.5°	1582.7	1604.8	1591.5	1604.8	1631.1	1635.6	1657.5	1648.7	1666.3	1653.2	1670.8
50°	1411.4	1411.4	1424.5	1442.1	1468.4	1472.9	1499.3	1516.9	1525.7	1530.0	1534.5
52.5°	1231.1	1226.6	1239.9	1261.8	1283.9	1301.4	1327.8	1354.2	1371.8	1398.1	1384.9
55°	1020.0	1028.8	1042.0	1068.4	1103.6	1125.5	1147.5	1182.7	1213.5	1226.6	1253.0
57.5°	839.7	830.9	839.7	874.9	914.5	932.1	962.9	998.1	1042.0	1068.4	1077.2
60°	650.6	655.1	663.9	694.8	725.4	751.8	765.1	822.1	861.8	888.1	905.7
62.5°	479.3	488.1	496.9	523.3	553.9	576.0	597.9	646.3	681.5	707.9	725.4
65°	334.2	338.5	351.8	364.9	395.7	417.6	435.2	474.8	510.0	532.1	545.2
67.5°	206.7	211.0	219.7	237.5	259.4	277.0	294.6	320.9	351.8	373.7	378.1
70°	105.5	110.0	114.3	127.5	145.1	153.9	167.0	189.1	211.0	228.5	237.5
72.5°	35.2	35.2	39.6	48.4	57.2	66.0	70.3	92.4	110.0	118.8	123.1
75°	8.8	8.8	8.8	8.8	8.8	13.3	13.3	26.4	35.2	43.9	48.4
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	8.8	8.8
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3	3095.3
2.5°	3095.3	3086.5	3082.0	3086.5	3086.5	3082.0	3095.3	3112.9	3134.8	3077.7
5°	3090.8	3082.0	3090.8	3064.4	3077.7	3068.9	3086.5	3082.0	3099.6	3082.0
7.5°	3077.7	3060.1	3064.4	3051.3	3068.9	3046.9	3060.1	3086.5	3068.9	3042.5
10°	3033.8	3025.0	3055.6	3011.7	3002.9	3020.5	3055.6	3029.3	3020.5	3029.3
12.5°	2989.6	2989.6	3002.9	2967.7	2972.0	2980.8	2998.4	2980.8	2989.6	3011.7
15°	2941.4	2932.6	2954.5	2928.1	2923.8	2915.0	2932.6	2932.6	2941.4	2928.1
17.5°	2884.1	2871.1	2871.1	2862.3	2857.8	2879.8	2888.6	2892.9	2897.4	2879.8
20°	2813.8	2809.5	2822.6	2809.5	2813.8	2818.3	2818.3	2809.5	2849.0	2800.7
22.5°	2739.0	2752.3	2734.7	2725.9	2734.7	2743.5	2743.5	2747.8	2739.0	2730.2
25°	2664.4	2673.2	2677.5	2651.1	2664.4	2651.1	2682.0	2686.3	2668.7	2677.5
27.5°	2598.4	2585.3	2580.8	2563.2	2572.0	2567.7	2572.0	2572.0	2598.4	2563.2
30°	2497.2	2484.1	2488.4	2475.3	2479.6	2475.3	2479.6	2479.6	2497.2	2492.9
32.5°	2400.5	2387.4	2391.7	2378.6	2378.6	2382.9	2374.2	2374.2	2387.4	2378.6
35°	2308.1	2277.5	2281.8	2277.5	2281.8	2264.2	2264.2	2259.9	2268.7	2246.6
37.5°	2176.3	2163.2	2158.7	2154.4	2158.7	2149.9	2158.7	2145.6	2158.7	2141.1
40°	2057.5	2048.8	2053.2	2026.9	2026.9	2031.2	2022.4	2018.1	2022.4	2040.0
42.5°	1939.0	1921.4	1912.6	1903.8	1908.1	1895.0	1890.5	1881.7	1890.5	1873.0
45°	1798.2	1798.2	1793.8	1771.8	1776.3	1776.3	1758.7	1741.1	1745.4	1745.4
47.5°	1670.8	1662.0	1657.5	1635.6	1631.1	1626.8	1609.1	1596.0	1596.0	1582.7
50°	1530.0	1521.2	1508.1	1486.0	1477.2	1450.9	1437.8	1420.2	1402.6	1402.6
52.5°	1398.1	1367.3	1349.7	1314.5	1301.4	1288.2	1253.0	1239.9	1226.6	1213.5
55°	1239.9	1213.5	1178.4	1138.7	1121.2	1099.1	1063.9	1037.6	1020.0	1024.5
57.5°	1086.0	1042.0	1006.9	954.1	932.1	918.8	883.7	848.5	830.9	830.9
60°	896.9	861.8	817.8	769.4	751.8	729.9	685.8	663.9	650.6	637.5
62.5°	716.6	690.3	650.6	589.1	576.0	553.9	523.3	496.9	483.6	483.6
65°	536.4	510.0	474.8	430.9	413.3	395.7	369.4	343.0	329.7	325.4
67.5°	378.1	347.3	316.6	281.5	268.2	259.4	233.0	215.4	206.7	202.2
70°	228.5	211.0	189.1	162.7	149.4	140.6	123.1	110.0	105.5	101.2
72.5°	118.8	105.5	87.9	70.3	61.5	52.7	43.9	35.2	30.9	30.9
75°	43.9	35.2	22.1	13.3	8.8	8.8	8.8	8.8	8.8	8.8
77.5°	8.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	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)