

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: P840256

Luminaire Tested: **LD4C75D010 EU4759050 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: P840256
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 EU4759050 4LBCSSQMMS
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

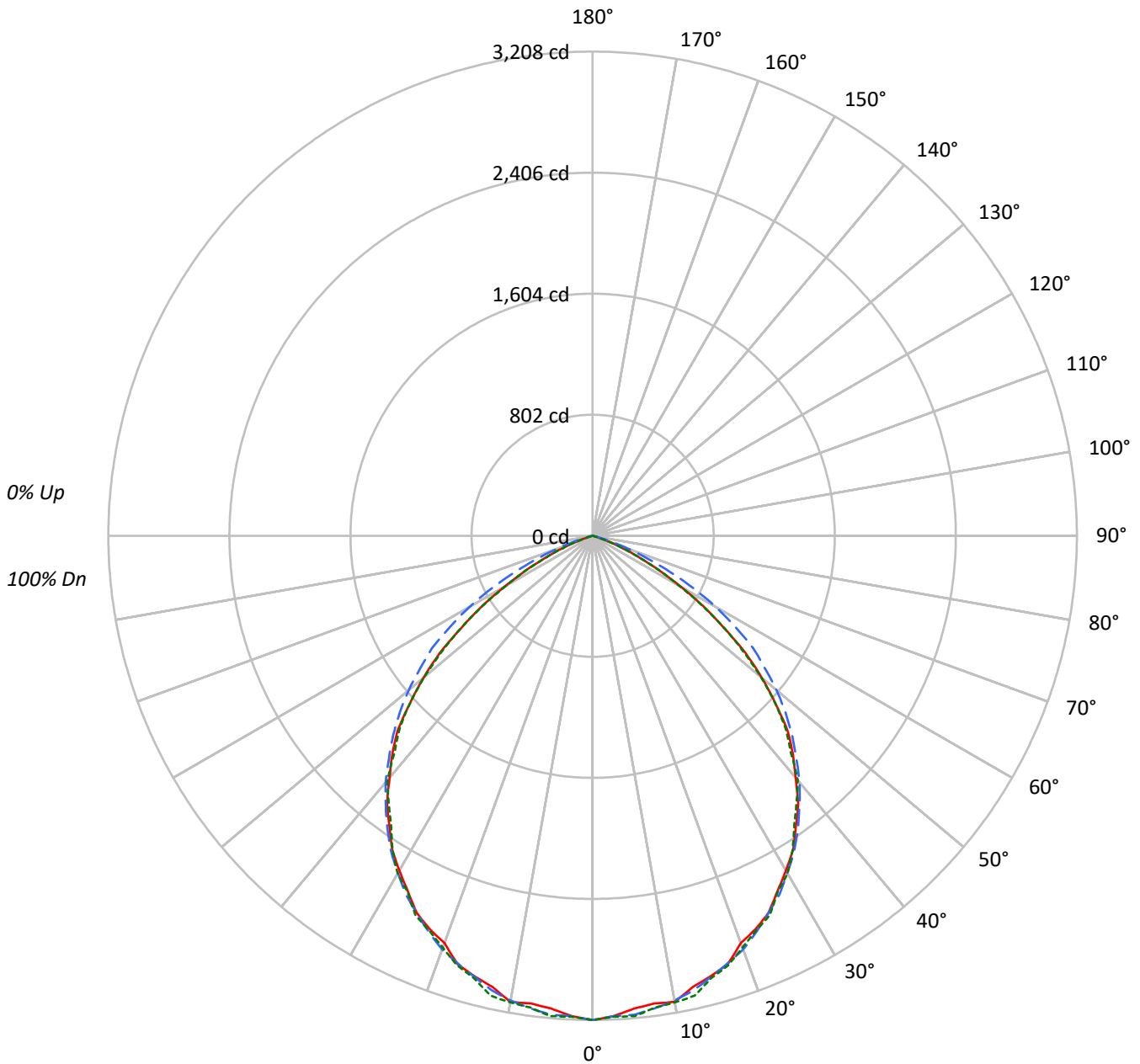
Lumens per Lamp: N/A
Luminaire Lumens: 6853.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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				
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°	309546	309546	309546
5°	304549	308510	309392
10°	307179	306287	307620
15°	301796	302245	303154
20°	294778	299460	298063
25°	293510	293510	295447
30°	285325	287352	287876
35°	276421	279118	274277
40°	263452	268604	266312
45°	249346	254941	246849
50°	219581	238735	218215
55°	177846	218472	178619
60°	130125	181148	127520
65°	79087	128996	77010
70°	30835	69457	29594
75°	3393	18715	3393
80°	2556	2556	2556
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	4.4
10°-20°	856.9	12.5
20°-30°	1271.4	18.6
30°-40°	1473.2	21.5
40°-50°	1412.5	20.6
50°-60°	1038.5	15.2
60°-70°	448.6	6.5
70°-80°	48.4	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°	2431.1	35.5
0°-40°	3904.4	57.0
0°-60°	6355.4	92.7
0°-90°	6853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3208	3208	3208	3208	3208	
5°	3144	3176	3185	3190	3194	300
15°	3021	3040	3026	3030	3035	852
25°	2757	2752	2757	2762	2775	1262
35°	2347	2360	2370	2365	2328	1467
45°	1827	1832	1868	1841	1809	1389
55°	1057	1166	1299	1162	1062	951
65°	346	433	565	428	337	356
75°	9	14	50	9	9	28
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°	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1
2.5°	3185.2	3221.7	3226.3	3203.5	3194.3	3180.8	3212.6	3189.9	3199.0	3189.9	3185.2
5°	3144.3	3185.2	3189.9	3189.9	3180.8	3176.1	3189.9	3185.2	3180.8	3171.7	3185.2
7.5°	3126.1	3148.8	3171.7	3144.3	3157.9	3153.4	3185.2	3171.7	3167.0	3167.0	3157.9
10°	3135.2	3130.6	3148.8	3121.5	3130.6	3121.5	3148.8	3148.8	3139.7	3130.6	3126.1
12.5°	3062.2	3098.6	3098.6	3094.1	3085.0	3071.3	3098.6	3117.0	3089.5	3089.5	3085.0
15°	3021.2	3030.4	3034.8	3034.8	3030.4	3039.5	3053.0	3034.8	3039.5	3016.6	3025.7
17.5°	2975.7	2957.5	2971.1	2961.9	2966.6	2975.7	2993.9	2993.9	2966.6	2961.9	2971.1
20°	2870.8	2925.5	2930.1	2902.8	2907.3	2907.3	2939.3	2911.9	2930.1	2907.3	2916.4
22.5°	2820.6	2857.1	2861.7	2825.3	2848.0	2820.6	2852.6	2811.5	2857.1	2825.3	2838.9
25°	2756.9	2752.4	2766.0	2747.8	2752.4	2752.4	2775.1	2756.9	2770.6	2752.4	2756.9
27.5°	2652.2	2688.6	2684.0	2665.8	2674.9	2670.4	2716.0	2665.8	2693.1	2670.4	2679.5
30°	2560.9	2592.9	2583.8	2565.6	2565.6	2551.8	2602.0	2588.2	2583.8	2583.8	2579.1
32.5°	2469.8	2474.4	2465.3	2469.8	2474.4	2456.2	2497.1	2478.9	2474.4	2478.9	2483.6
35°	2346.7	2346.7	2355.8	2342.3	2360.5	2360.5	2396.9	2374.1	2369.6	2355.8	2369.6
37.5°	2237.4	2223.8	2228.3	2228.3	2237.4	2246.5	2264.7	2255.6	2255.6	2242.0	2251.2
40°	2091.6	2082.5	2096.1	2096.1	2109.9	2109.9	2128.1	2119.0	2132.5	2132.5	2132.5
42.5°	1964.1	1964.1	1955.0	1968.6	1973.2	1968.6	2000.5	1995.9	2000.5	1991.4	1995.9
45°	1827.3	1827.3	1818.1	1813.7	1836.4	1831.9	1868.3	1854.6	1872.8	1863.7	1868.3
47.5°	1640.4	1663.3	1649.5	1663.3	1690.6	1695.2	1717.9	1708.8	1727.0	1713.5	1731.7
50°	1462.8	1462.8	1476.4	1494.6	1522.0	1526.6	1553.9	1572.2	1581.3	1585.7	1590.4
52.5°	1276.0	1271.3	1285.1	1307.8	1330.7	1348.9	1376.2	1403.5	1421.8	1449.1	1435.3
55°	1057.2	1066.3	1080.0	1107.4	1143.8	1166.5	1189.4	1225.8	1257.8	1271.3	1298.7
57.5°	870.3	861.2	870.3	906.7	947.8	966.1	998.0	1034.5	1080.0	1107.4	1116.5
60°	674.3	679.0	688.1	720.1	751.9	779.2	793.0	852.1	893.2	920.5	938.7
62.5°	496.8	505.9	515.0	542.3	574.1	597.0	619.7	669.9	706.3	733.7	751.9
65°	346.4	350.8	364.6	378.2	410.1	432.8	451.1	492.1	528.6	551.4	565.0
67.5°	214.2	218.6	227.8	246.2	268.8	287.1	305.3	332.6	364.6	387.3	391.9
70°	109.3	114.0	118.4	132.2	150.4	159.5	173.1	196.0	218.6	236.9	246.2
72.5°	36.4	36.4	41.1	50.2	59.3	68.4	72.9	95.7	114.0	123.1	127.5
75°	9.1	9.1	9.1	9.1	9.1	13.8	13.8	27.3	36.4	45.6	50.2
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	9.1	9.1
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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°	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1
2.5°	3208.1	3199.0	3194.3	3199.0	3199.0	3194.3	3208.1	3226.3	3249.0	3189.9
5°	3203.5	3194.3	3203.5	3176.1	3189.9	3180.8	3199.0	3194.3	3212.6	3194.3
7.5°	3189.9	3171.7	3176.1	3162.5	3180.8	3157.9	3171.7	3199.0	3180.8	3153.4
10°	3144.3	3135.2	3167.0	3121.5	3112.4	3130.6	3167.0	3139.7	3130.6	3139.7
12.5°	3098.6	3098.6	3112.4	3075.9	3080.4	3089.5	3107.7	3089.5	3098.6	3121.5
15°	3048.6	3039.5	3062.2	3034.8	3030.4	3021.2	3039.5	3039.5	3048.6	3034.8
17.5°	2989.3	2975.7	2975.7	2966.6	2961.9	2984.8	2993.9	2998.4	3003.0	2984.8
20°	2916.4	2911.9	2925.5	2911.9	2916.4	2921.0	2921.0	2911.9	2952.8	2902.8
22.5°	2838.9	2852.6	2834.4	2825.3	2834.4	2843.5	2843.5	2848.0	2838.9	2829.8
25°	2761.5	2770.6	2775.1	2747.8	2761.5	2747.8	2779.7	2784.2	2766.0	2775.1
27.5°	2693.1	2679.5	2674.9	2656.7	2665.8	2661.3	2665.8	2665.8	2693.1	2656.7
30°	2588.2	2574.7	2579.1	2565.6	2570.0	2565.6	2570.0	2570.0	2588.2	2583.8
32.5°	2488.0	2474.4	2478.9	2465.3	2465.3	2469.8	2460.7	2460.7	2474.4	2465.3
35°	2392.3	2360.5	2364.9	2360.5	2364.9	2346.7	2346.7	2342.3	2351.4	2328.5
37.5°	2255.6	2242.0	2237.4	2232.9	2237.4	2228.3	2237.4	2223.8	2237.4	2219.2
40°	2132.5	2123.4	2128.1	2100.7	2100.7	2105.2	2096.1	2091.6	2096.1	2114.3
42.5°	2009.6	1991.4	1982.3	1973.2	1977.7	1964.1	1959.4	1950.3	1959.4	1941.2
45°	1863.7	1863.7	1859.2	1836.4	1841.0	1841.0	1822.8	1804.6	1809.0	1809.0
47.5°	1731.7	1722.6	1717.9	1695.2	1690.6	1686.1	1667.7	1654.2	1654.2	1640.4
50°	1585.7	1576.6	1563.1	1540.2	1531.1	1503.7	1490.2	1472.0	1453.7	1453.7
52.5°	1449.1	1417.1	1398.9	1362.4	1348.9	1335.1	1298.7	1285.1	1271.3	1257.8
55°	1285.1	1257.8	1221.3	1180.2	1162.0	1139.2	1102.7	1075.4	1057.2	1061.8
57.5°	1125.6	1080.0	1043.6	988.9	966.1	952.3	915.9	879.4	861.2	861.2
60°	929.6	893.2	847.6	797.4	779.2	756.5	710.8	688.1	674.3	660.8
62.5°	742.8	715.4	674.3	610.6	597.0	574.1	542.3	515.0	501.2	501.2
65°	555.9	528.6	492.1	446.6	428.4	410.1	382.8	355.5	341.7	337.3
67.5°	391.9	359.9	328.2	291.7	278.0	268.8	241.5	223.3	214.2	209.5
70°	236.9	218.6	196.0	168.6	154.9	145.8	127.5	114.0	109.3	104.9
72.5°	123.1	109.3	91.1	72.9	63.8	54.7	45.6	36.4	32.0	32.0
75°	45.6	36.4	22.9	13.8	9.1	9.1	9.1	9.1	9.1	9.1
77.5°	9.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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)