

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: P840248

Luminaire Tested: **LD4C75D010 EU4759027 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: P840248
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 EU4759027 4LBCSSQMMS
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

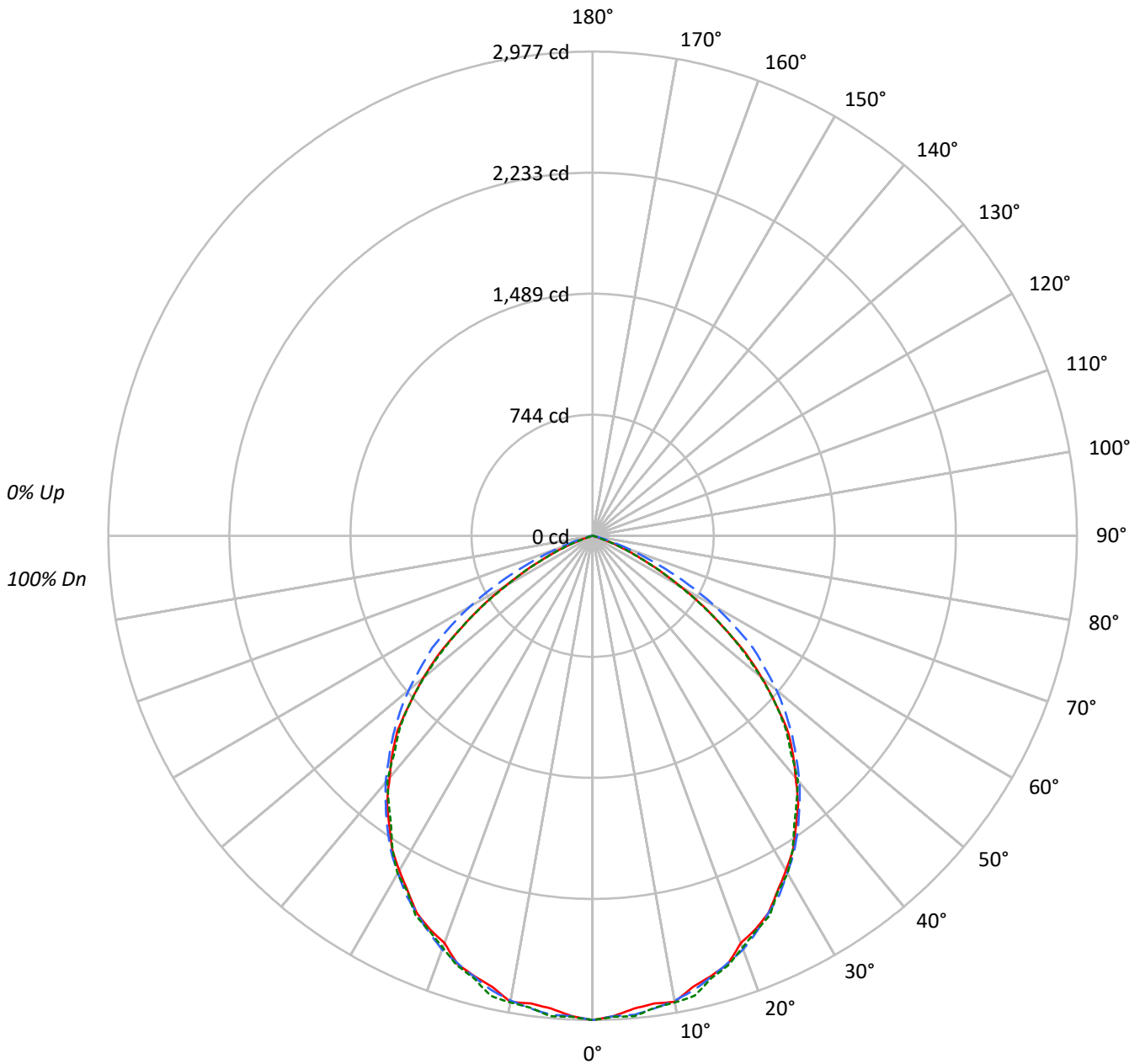
Lumens per Lamp: N/A
Luminaire Lumens: 6360.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	287276	287276	287276
5°	282640	286320	287134
10°	285085	284252	285487
15°	280089	280499	281348
20°	273574	277917	276624
25°	272387	272387	274197
30°	264802	266685	267164
35°	256537	259035	254547
40°	244508	249282	247153
45°	231402	236601	229096
50°	203789	221562	202513
55°	165044	202743	165767
60°	120765	168122	118334
65°	73402	119727	71462
70°	28635	64463	27450
75°	3169	17373	3169
80°	2389	2389	2389
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.0	4.4
10°-20°	795.2	12.5
20°-30°	1180.0	18.6
30°-40°	1367.2	21.5
40°-50°	1310.9	20.6
50°-60°	963.8	15.2
60°-70°	416.3	6.5
70°-80°	44.9	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°	2256.2	35.5
0°-40°	3623.5	57.0
0°-60°	5898.2	92.7
0°-90°	6360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2977	2977	2977	2977	2977	
5°	2918	2948	2956	2960	2964	278
15°	2804	2821	2808	2812	2816	790
25°	2558	2554	2558	2563	2576	1171
35°	2178	2191	2199	2195	2161	1362
45°	1696	1700	1734	1709	1679	1289
55°	981	1083	1205	1078	985	883
65°	322	402	524	398	313	330
75°	8	13	47	8	8	26
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°	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3
2.5°	2956.1	2989.9	2994.2	2973.0	2964.5	2951.9	2981.5	2960.4	2968.9	2960.4	2956.1
5°	2918.1	2956.1	2960.4	2960.4	2951.9	2947.6	2960.4	2956.1	2951.9	2943.5	2956.1
7.5°	2901.2	2922.3	2943.5	2918.1	2930.7	2926.6	2956.1	2943.5	2939.2	2939.2	2930.7
10°	2909.7	2905.4	2922.3	2896.9	2905.4	2896.9	2922.3	2922.3	2913.8	2905.4	2901.2
12.5°	2841.9	2875.7	2875.7	2871.5	2863.1	2850.3	2875.7	2892.8	2867.2	2867.2	2863.1
15°	2803.9	2812.4	2816.5	2816.5	2812.4	2820.8	2833.4	2816.5	2820.8	2799.6	2808.0
17.5°	2761.6	2744.7	2757.3	2748.9	2753.2	2761.6	2778.5	2778.5	2753.2	2748.9	2757.3
20°	2664.3	2715.0	2719.4	2694.0	2698.1	2698.1	2727.8	2702.4	2719.4	2698.1	2706.6
22.5°	2617.7	2651.5	2655.9	2622.0	2643.1	2617.7	2647.4	2609.3	2651.5	2622.0	2634.6
25°	2558.5	2554.4	2567.0	2550.1	2554.4	2554.4	2575.5	2558.5	2571.3	2554.4	2558.5
27.5°	2461.4	2495.2	2490.9	2474.0	2482.4	2478.3	2520.6	2474.0	2499.4	2478.3	2486.8
30°	2376.7	2406.4	2397.9	2381.0	2381.0	2368.2	2414.8	2402.0	2397.9	2397.9	2393.6
32.5°	2292.1	2296.4	2288.0	2292.1	2296.4	2279.5	2317.5	2300.6	2296.4	2300.6	2304.9
35°	2177.9	2177.9	2186.4	2173.8	2190.7	2190.7	2224.5	2203.3	2199.1	2186.4	2199.1
37.5°	2076.4	2063.8	2068.0	2068.0	2076.4	2084.9	2101.8	2093.4	2093.4	2080.8	2089.2
40°	1941.2	1932.7	1945.3	1945.3	1958.1	1958.1	1975.0	1966.5	1979.1	1979.1	1979.1
42.5°	1822.8	1822.8	1814.3	1826.9	1831.2	1826.9	1856.6	1852.3	1856.6	1848.2	1852.3
45°	1695.8	1695.8	1687.3	1683.2	1704.3	1700.1	1733.9	1721.2	1738.1	1729.6	1733.9
47.5°	1522.4	1543.6	1530.8	1543.6	1569.0	1573.3	1594.3	1585.9	1602.8	1590.2	1607.1
50°	1357.6	1357.6	1370.2	1387.1	1412.5	1416.8	1442.2	1459.1	1467.5	1471.7	1476.0
52.5°	1184.2	1179.9	1192.6	1213.7	1234.9	1251.8	1277.2	1302.6	1319.5	1344.8	1332.1
55°	981.1	989.6	1002.3	1027.7	1061.5	1082.6	1103.8	1137.6	1167.3	1179.9	1205.2
57.5°	807.7	799.2	807.7	841.5	879.6	896.6	926.2	960.1	1002.3	1027.7	1036.1
60°	625.8	630.1	638.6	668.3	697.8	723.1	735.9	790.8	828.9	854.3	871.2
62.5°	461.0	469.5	478.0	503.3	532.8	554.0	575.1	621.7	655.5	680.9	697.8
65°	321.5	325.6	338.4	351.0	380.6	401.7	418.6	456.7	490.6	511.8	524.4
67.5°	198.8	202.9	211.4	228.5	249.5	266.4	283.3	308.7	338.4	359.4	363.7
70°	101.5	105.8	109.9	122.7	139.6	148.0	160.6	181.9	202.9	219.8	228.5
72.5°	33.8	33.8	38.1	46.6	55.0	63.5	67.6	88.9	105.8	114.2	118.4
75°	8.5	8.5	8.5	8.5	8.5	12.8	12.8	25.4	33.8	42.3	46.6
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	8.5	8.5
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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°	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3
2.5°	2977.3	2968.9	2964.5	2968.9	2968.9	2964.5	2977.3	2994.2	3015.3	2960.4
5°	2973.0	2964.5	2973.0	2947.6	2960.4	2951.9	2968.9	2964.5	2981.5	2964.5
7.5°	2960.4	2943.5	2947.6	2935.0	2951.9	2930.7	2943.5	2968.9	2951.9	2926.6
10°	2918.1	2909.7	2939.2	2896.9	2888.5	2905.4	2939.2	2913.8	2905.4	2913.8
12.5°	2875.7	2875.7	2888.5	2854.6	2858.8	2867.2	2884.1	2867.2	2875.7	2896.9
15°	2829.3	2820.8	2841.9	2816.5	2812.4	2803.9	2820.8	2820.8	2829.3	2816.5
17.5°	2774.2	2761.6	2761.6	2753.2	2748.9	2770.1	2778.5	2782.7	2787.0	2770.1
20°	2706.6	2702.4	2715.0	2702.4	2706.6	2710.9	2710.9	2702.4	2740.4	2694.0
22.5°	2634.6	2647.4	2630.5	2622.0	2630.5	2638.9	2638.9	2643.1	2634.6	2626.2
25°	2562.9	2571.3	2575.5	2550.1	2562.9	2550.1	2579.8	2583.9	2567.0	2575.5
27.5°	2499.4	2486.8	2482.4	2465.5	2474.0	2469.8	2474.0	2474.0	2499.4	2465.5
30°	2402.0	2389.4	2393.6	2381.0	2385.1	2381.0	2385.1	2385.1	2402.0	2397.9
32.5°	2309.0	2296.4	2300.6	2288.0	2288.0	2292.1	2283.7	2283.7	2296.4	2288.0
35°	2220.2	2190.7	2194.8	2190.7	2194.8	2177.9	2177.9	2173.8	2182.2	2161.0
37.5°	2093.4	2080.8	2076.4	2072.3	2076.4	2068.0	2076.4	2063.8	2076.4	2059.5
40°	1979.1	1970.7	1975.0	1949.6	1949.6	1953.8	1945.3	1941.2	1945.3	1962.2
42.5°	1865.1	1848.2	1839.7	1831.2	1835.4	1822.8	1818.5	1810.0	1818.5	1801.6
45°	1729.6	1729.6	1725.5	1704.3	1708.6	1708.6	1691.7	1674.7	1678.9	1678.9
47.5°	1607.1	1598.7	1594.3	1573.3	1569.0	1564.8	1547.8	1535.2	1535.2	1522.4
50°	1471.7	1463.2	1450.6	1429.4	1420.9	1395.6	1383.0	1366.1	1349.1	1349.1
52.5°	1344.8	1315.2	1298.3	1264.4	1251.8	1239.1	1205.2	1192.6	1179.9	1167.3
55°	1192.6	1167.3	1133.5	1095.3	1078.4	1057.2	1023.4	998.0	981.1	985.4
57.5°	1044.6	1002.3	968.5	917.8	896.6	883.8	850.0	816.2	799.2	799.2
60°	862.7	828.9	786.6	740.1	723.1	702.1	659.7	638.6	625.8	613.2
62.5°	689.3	664.0	625.8	566.6	554.0	532.8	503.3	478.0	465.2	465.2
65°	515.9	490.6	456.7	414.5	397.5	380.6	355.3	329.9	317.1	313.0
67.5°	363.7	334.1	304.5	270.7	258.0	249.5	224.1	207.2	198.8	194.5
70°	219.8	202.9	181.9	156.5	143.7	135.3	118.4	105.8	101.5	97.3
72.5°	114.2	101.5	84.5	67.6	59.2	50.7	42.3	33.8	29.7	29.7
75°	42.3	33.8	21.2	12.8	8.5	8.5	8.5	8.5	8.5	8.5
77.5°	8.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
80°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)