

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: P563877

Luminaire Tested: **LD4C60D010 EX4C609030 4LBCSSQMW**

Issue Date: 5/25/2022

Test Information

Test Method: LM-79-08
Report Number: P563877
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: LD4C60D010 EX4C609030 4LBCSSQMW
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MW FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

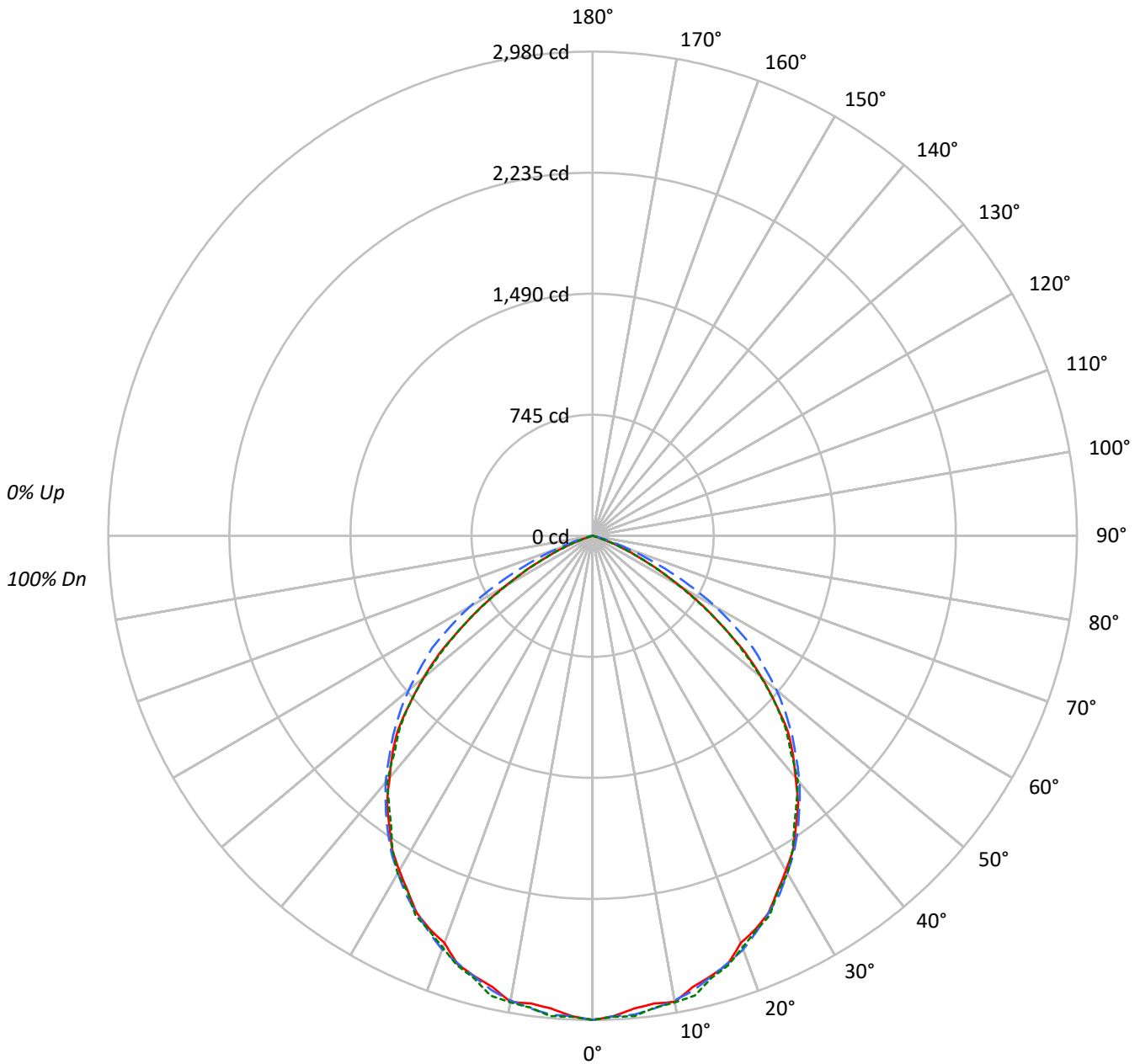
Lumens per Lamp: N/A
Luminaire Lumens: 6365.6 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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								
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89								
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	74	71	77	73	69	67								
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	61	56	67	60	55	65	59	54	63	58	54	52								
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46								
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41								
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37								
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33								
10	57	45	38	33	56	44	37	33	44	37	32	43	37	32	42	36	32	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	287537	287537	287537
5°	282892	286572	287395
10°	285330	284507	285741
15°	280339	280748	281597
20°	273820	278164	276870
25°	272632	272632	274432
30°	265036	266919	267398
35°	256773	259270	254771
40°	244722	249509	247368
45°	231607	236806	229300
50°	203970	221758	202694
55°	165195	202928	165919
60°	120881	168257	118450
65°	73448	119841	71530
70°	28635	64520	27478
75°	3132	17373	3132
80°	2389	2389	2389
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	4.4
10°-20°	796.0	12.5
20°-30°	1181.0	18.6
30°-40°	1368.4	21.5
40°-50°	1312.0	20.6
50°-60°	964.7	15.2
60°-70°	416.7	6.5
70°-80°	45.0	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°	2258.2	35.5
0°-40°	3626.7	57.0
0°-60°	5903.4	92.7
0°-90°	6365.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6365.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2980	2980	2980	2980	2980	
5°	2921	2950	2959	2963	2967	279
15°	2806	2823	2810	2815	2819	791
25°	2561	2557	2561	2565	2578	1172
35°	2180	2193	2201	2197	2163	1363
45°	1697	1702	1735	1710	1680	1290
55°	982	1084	1206	1079	986	884
65°	322	402	525	398	313	331
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°	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0
2.5°	2958.7	2992.6	2996.9	2975.6	2967.2	2954.6	2984.1	2963.0	2971.4	2963.0	2958.7
5°	2920.7	2958.7	2963.0	2963.0	2954.6	2950.3	2963.0	2958.7	2954.6	2946.1	2958.7
7.5°	2903.8	2924.9	2946.1	2920.7	2933.3	2929.1	2958.7	2946.1	2941.7	2941.7	2933.3
10°	2912.2	2908.0	2924.9	2899.4	2908.0	2899.4	2924.9	2924.9	2916.4	2908.0	2903.8
12.5°	2844.4	2878.3	2878.3	2874.1	2865.7	2852.8	2878.3	2895.4	2869.7	2869.7	2865.7
15°	2806.4	2814.9	2819.0	2819.0	2814.9	2823.3	2836.0	2819.0	2823.3	2802.1	2810.5
17.5°	2764.0	2747.2	2759.8	2751.3	2755.6	2764.0	2781.0	2781.0	2755.6	2751.3	2759.8
20°	2666.7	2717.4	2721.7	2696.4	2700.6	2700.6	2730.3	2704.8	2721.7	2700.6	2709.0
22.5°	2620.0	2653.9	2658.2	2624.4	2645.4	2620.0	2649.7	2611.6	2653.9	2624.4	2637.0
25°	2560.8	2556.6	2569.2	2552.4	2556.6	2556.6	2577.7	2560.8	2573.6	2556.6	2560.8
27.5°	2463.6	2497.4	2493.2	2476.2	2484.6	2480.5	2522.9	2476.2	2501.6	2480.5	2489.0
30°	2378.8	2408.5	2400.0	2383.1	2383.1	2370.3	2417.0	2404.2	2400.0	2400.0	2395.7
32.5°	2294.2	2298.5	2290.0	2294.2	2298.5	2281.6	2319.5	2302.6	2298.5	2302.6	2306.9
35°	2179.9	2179.9	2188.3	2175.7	2192.6	2192.6	2226.4	2205.2	2201.1	2188.3	2201.1
37.5°	2078.2	2065.6	2069.8	2069.8	2078.2	2086.8	2103.7	2095.2	2095.2	2082.6	2091.1
40°	1942.9	1934.4	1947.0	1947.0	1959.8	1959.8	1976.7	1968.3	1980.9	1980.9	1980.9
42.5°	1824.4	1824.4	1815.9	1828.5	1832.9	1828.5	1858.2	1853.9	1858.2	1849.8	1853.9
45°	1697.3	1697.3	1688.9	1684.7	1705.7	1701.6	1735.4	1722.7	1739.6	1731.2	1735.4
47.5°	1523.8	1545.0	1532.2	1545.0	1570.4	1574.7	1595.8	1587.3	1604.2	1591.6	1608.5
50°	1358.8	1358.8	1371.4	1388.4	1413.7	1418.1	1443.4	1460.4	1468.8	1473.0	1477.3
52.5°	1185.2	1181.0	1193.7	1214.7	1236.0	1253.0	1278.3	1303.7	1320.6	1346.1	1333.2
55°	982.0	990.4	1003.3	1028.6	1062.5	1083.5	1104.8	1138.7	1168.4	1181.0	1206.3
57.5°	808.4	799.9	808.4	842.2	880.4	897.4	927.1	960.9	1003.3	1028.6	1037.0
60°	626.4	630.7	639.2	668.9	698.4	723.8	736.6	791.5	829.6	855.1	871.9
62.5°	461.5	469.9	478.4	503.7	533.3	554.6	575.6	622.2	656.1	681.5	698.4
65°	321.7	325.9	338.6	351.2	380.9	402.1	419.0	457.1	491.0	512.3	524.9
67.5°	199.0	203.1	211.6	228.7	249.7	266.6	283.6	308.9	338.6	359.8	364.1
70°	101.5	105.9	110.1	122.8	139.8	148.2	160.8	182.0	203.1	220.0	228.7
72.5°	33.9	33.9	38.1	46.6	55.1	63.6	67.7	88.9	105.9	114.3	118.5
75°	8.4	8.4	8.4	8.4	8.4	12.8	12.8	25.4	33.9	42.3	46.6
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	8.4	8.4
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°	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0	2980.0
2.5°	2980.0	2971.4	2967.2	2971.4	2971.4	2967.2	2980.0	2996.9	3017.9	2963.0
5°	2975.6	2967.2	2975.6	2950.3	2963.0	2954.6	2971.4	2967.2	2984.1	2967.2
7.5°	2963.0	2946.1	2950.3	2937.7	2954.6	2933.3	2946.1	2971.4	2954.6	2929.1
10°	2920.7	2912.2	2941.7	2899.4	2891.0	2908.0	2941.7	2916.4	2908.0	2916.4
12.5°	2878.3	2878.3	2891.0	2857.2	2861.3	2869.7	2886.7	2869.7	2878.3	2899.4
15°	2831.8	2823.3	2844.4	2819.0	2814.9	2806.4	2823.3	2823.3	2831.8	2819.0
17.5°	2776.7	2764.0	2764.0	2755.6	2751.3	2772.6	2781.0	2785.2	2789.5	2772.6
20°	2709.0	2704.8	2717.4	2704.8	2709.0	2713.3	2713.3	2704.8	2742.9	2696.4
22.5°	2637.0	2649.7	2632.8	2624.4	2632.8	2641.3	2641.3	2645.4	2637.0	2628.5
25°	2565.2	2573.6	2577.7	2552.4	2565.2	2552.4	2582.1	2586.2	2569.2	2577.7
27.5°	2501.6	2489.0	2484.6	2467.7	2476.2	2472.0	2476.2	2476.2	2501.6	2467.7
30°	2404.2	2391.5	2395.7	2383.1	2387.3	2383.1	2387.3	2387.3	2404.2	2400.0
32.5°	2311.1	2298.5	2302.6	2290.0	2290.0	2294.2	2285.6	2285.6	2298.5	2290.0
35°	2222.2	2192.6	2196.7	2192.6	2196.7	2179.9	2179.9	2175.7	2184.1	2162.9
37.5°	2095.2	2082.6	2078.2	2074.2	2078.2	2069.8	2078.2	2065.6	2078.2	2061.4
40°	1980.9	1972.5	1976.7	1951.4	1951.4	1955.5	1947.0	1942.9	1947.0	1963.9
42.5°	1866.8	1849.8	1841.3	1832.9	1837.1	1824.4	1820.1	1811.6	1820.1	1803.2
45°	1731.2	1731.2	1727.0	1705.7	1710.1	1710.1	1693.1	1676.2	1680.4	1680.4
47.5°	1608.5	1600.1	1595.8	1574.7	1570.4	1566.2	1549.1	1536.5	1536.5	1523.8
50°	1473.0	1464.5	1451.8	1430.7	1422.1	1396.8	1384.2	1367.3	1350.3	1350.3
52.5°	1346.1	1316.4	1299.4	1265.6	1253.0	1240.2	1206.3	1193.7	1181.0	1168.4
55°	1193.7	1168.4	1134.5	1096.3	1079.4	1058.1	1024.3	998.9	982.0	986.3
57.5°	1045.6	1003.3	969.4	918.6	897.4	884.6	850.7	816.9	799.9	799.9
60°	863.5	829.6	787.3	740.7	723.8	702.7	660.3	639.2	626.4	613.8
62.5°	690.0	664.5	626.4	567.2	554.6	533.3	503.7	478.4	465.6	465.6
65°	516.3	491.0	457.1	414.8	397.9	380.9	355.6	330.2	317.5	313.3
67.5°	364.1	334.4	304.9	271.0	258.2	249.7	224.3	207.4	199.0	194.6
70°	220.0	203.1	182.0	156.6	143.8	135.4	118.5	105.9	101.5	97.4
72.5°	114.3	101.5	84.6	67.7	59.2	50.8	42.3	33.9	29.7	29.7
75°	42.3	33.9	21.3	12.8	8.4	8.4	8.4	8.4	8.4	8.4
77.5°	8.4	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)