

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: P563868

Luminaire Tested: **LD4C55D010 EX4C559030 4LBCSSQMW**

Issue Date: 5/25/2022



Test Information

Test Method: LM-79-08
Report Number: P563868
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: LD4C55D010 EX4C559030 4LBCSSQMW
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MW FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

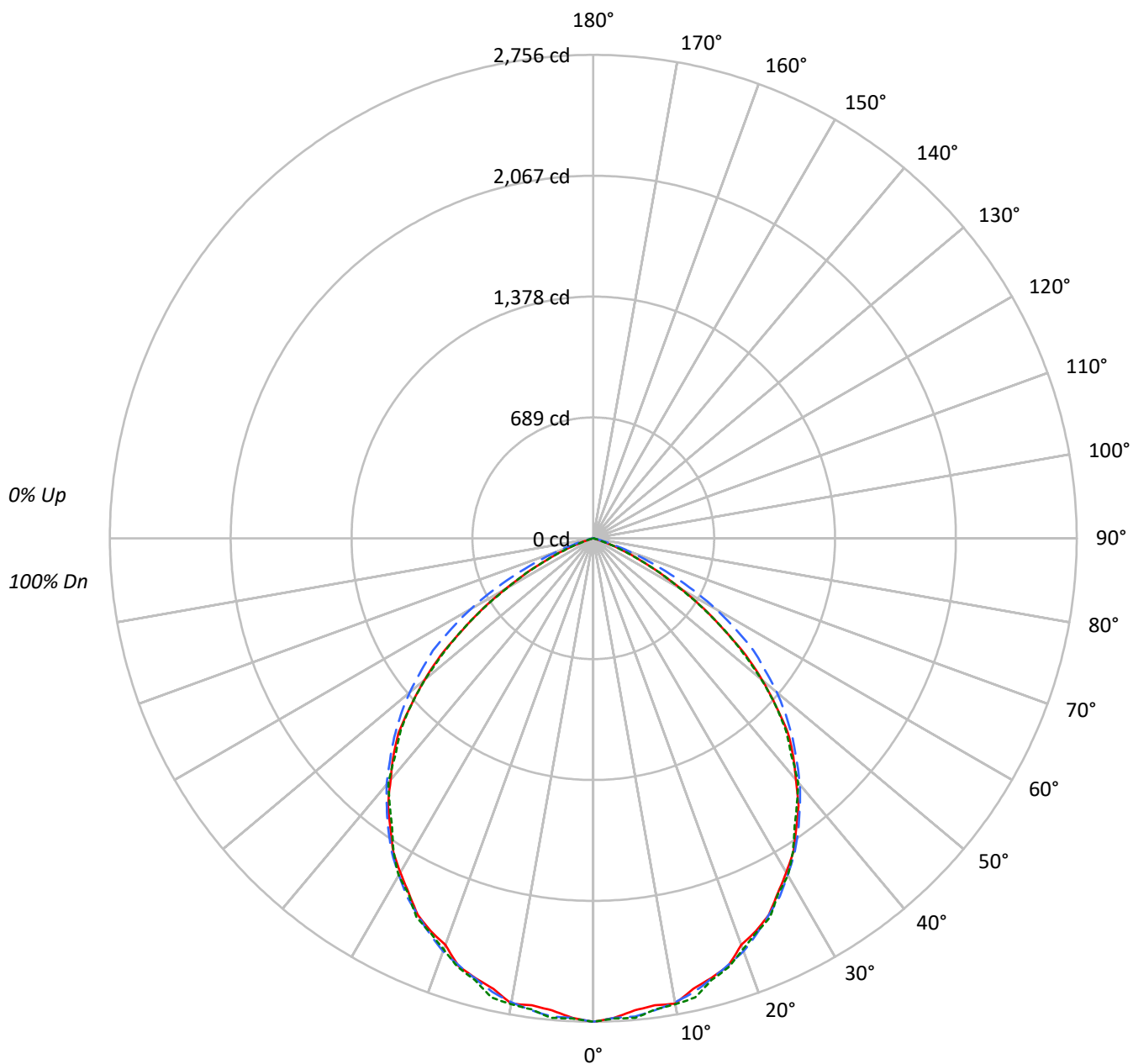
Lumens per Lamp: N/A
Luminaire Lumens: 5887.6 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V):
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	108	104	101	109	105	102	100		101	99	96			97	95	94			94
2	103	96	91	86	100	94	89	85		91	87	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	74	71			77
4	88	77	70	64	86	76	69	63		74	67	63			71	66	62			69
5	81	70	62	56	79	69	61	56		67	60	55			65	59	54			63
6	75	63	55	49	73	62	55	49		61	54	49			59	53	48			57
7	70	58	50	44	68	57	49	44		55	49	44			54	48	43			53
8	65	53	45	40	64	52	45	39		51	44	39			50	44	39			49
9	61	49	41	36	60	48	41	36		47	40	36			46	40	35			45
10	57	45	38	33	56	44	37	33		44	37	32			43	37	32			42

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	265933	265933	265933
5°	261651	265050	265806
10°	263902	263138	264284
15°	259281	259671	260450
20°	253253	257278	256077
25°	252149	252149	253820
30°	245126	246875	247310
35°	237479	239788	235629
40°	226345	230766	228789
45°	214208	219025	212080
50°	188658	205095	187472
55°	152797	187704	153453
60°	111792	155617	109553
65°	67923	110823	66142
70°	26491	59667	25419
75°	2908	16068	2908
80°	2223	2223	2223
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.2	4.4
10°-20°	736.2	12.5
20°-30°	1092.3	18.6
30°-40°	1265.7	21.5
40°-50°	1213.5	20.6
50°-60°	892.2	15.2
60°-70°	385.4	6.5
70°-80°	41.6	0.7
80°-90°	0.5	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°	2088.6	35.5
0°-40°	3354.3	57.0
0°-60°	5460.1	92.7
0°-90°	5887.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5887.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2756	2756	2756	2756	2756	
5°	2701	2729	2736	2740	2744	258
15°	2596	2611	2600	2603	2607	732
25°	2368	2365	2368	2372	2384	1084
35°	2016	2028	2036	2032	2000	1261
45°	1570	1574	1605	1582	1554	1193
55°	908	1002	1116	998	912	817
65°	298	372	485	368	290	306
75°	8	12	43	8	8	24
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°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2736.5	2767.8	2771.8	2752.1	2744.3	2732.7	2760.0	2740.5	2748.3	2740.5	2736.5
5°	2701.4	2736.5	2740.5	2740.5	2732.7	2728.6	2740.5	2736.5	2732.7	2724.9	2736.5
7.5°	2685.7	2705.2	2724.9	2701.4	2713.0	2709.2	2736.5	2724.9	2720.8	2720.8	2713.0
10°	2693.5	2689.6	2705.2	2681.7	2689.6	2681.7	2705.2	2705.2	2697.4	2689.6	2685.7
12.5°	2630.8	2662.1	2662.1	2658.2	2650.4	2638.6	2662.1	2677.9	2654.3	2654.3	2650.4
15°	2595.6	2603.4	2607.3	2607.3	2603.4	2611.3	2623.0	2607.3	2611.3	2591.6	2599.5
17.5°	2556.5	2540.9	2552.5	2544.6	2548.7	2556.5	2572.1	2572.1	2548.7	2544.6	2552.5
20°	2466.4	2513.4	2517.4	2493.9	2497.7	2497.7	2525.2	2501.7	2517.4	2497.7	2505.6
22.5°	2423.3	2454.6	2458.6	2427.2	2446.8	2423.3	2450.7	2415.4	2454.6	2427.2	2438.9
25°	2368.4	2364.7	2376.3	2360.6	2364.7	2364.7	2384.1	2368.4	2380.3	2364.7	2368.4
27.5°	2278.5	2309.9	2305.9	2290.2	2298.1	2294.2	2333.4	2290.2	2313.7	2294.2	2302.0
30°	2200.1	2227.6	2219.7	2204.1	2204.1	2192.3	2235.4	2223.6	2219.7	2219.7	2215.8
32.5°	2121.9	2125.8	2118.0	2121.9	2125.8	2110.2	2145.4	2129.7	2125.8	2129.7	2133.7
35°	2016.1	2016.1	2023.9	2012.3	2027.9	2027.9	2059.2	2039.6	2035.7	2023.9	2035.7
37.5°	1922.2	1910.5	1914.4	1914.4	1922.2	1930.0	1945.7	1937.9	1937.9	1926.2	1934.0
40°	1797.0	1789.2	1800.9	1800.9	1812.7	1812.7	1828.3	1820.5	1832.1	1832.1	1832.1
42.5°	1687.4	1687.4	1679.6	1691.2	1695.3	1691.2	1718.7	1714.7	1718.7	1710.8	1714.7
45°	1569.8	1569.8	1562.0	1558.1	1577.7	1573.8	1605.1	1593.3	1609.0	1601.2	1605.1
47.5°	1409.3	1429.0	1417.2	1429.0	1452.5	1456.4	1476.0	1468.1	1483.7	1472.1	1487.8
50°	1256.8	1256.8	1268.4	1284.1	1307.5	1311.6	1335.1	1350.6	1358.5	1362.3	1366.3
52.5°	1096.2	1092.3	1104.1	1123.5	1143.2	1158.8	1182.3	1205.8	1221.5	1245.0	1233.2
55°	908.3	916.1	927.9	951.4	982.6	1002.1	1021.8	1053.1	1080.6	1092.3	1115.8
57.5°	747.7	739.9	747.7	779.0	814.3	829.9	857.4	888.7	927.9	951.4	959.2
60°	579.3	583.4	591.2	618.7	645.9	669.4	681.2	732.1	767.4	790.9	806.4
62.5°	426.8	434.6	442.5	466.0	493.2	512.9	532.4	575.5	606.9	630.3	645.9
65°	297.5	301.4	313.2	324.9	352.4	371.9	387.6	422.9	454.1	473.7	485.4
67.5°	184.0	187.9	195.7	211.5	231.0	246.7	262.2	285.7	313.2	332.7	336.7
70°	93.9	98.0	101.7	113.5	129.2	137.0	148.7	168.3	187.9	203.5	211.5
72.5°	31.3	31.3	35.3	43.1	51.0	58.8	62.7	82.3	98.0	105.8	109.6
75°	7.8	7.8	7.8	7.8	7.8	11.8	11.8	23.5	31.3	39.2	43.1
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	7.8	7.8
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1	2756.1
2.5°	2756.1	2748.3	2744.3	2748.3	2748.3	2744.3	2756.1	2771.8	2791.3	2740.5
5°	2752.1	2744.3	2752.1	2728.6	2740.5	2732.7	2748.3	2744.3	2760.0	2744.3
7.5°	2740.5	2724.9	2728.6	2717.0	2732.7	2713.0	2724.9	2748.3	2732.7	2709.2
10°	2701.4	2693.5	2720.8	2681.7	2673.9	2689.6	2720.8	2697.4	2689.6	2697.4
12.5°	2662.1	2662.1	2673.9	2642.6	2646.4	2654.3	2669.9	2654.3	2662.1	2681.7
15°	2619.1	2611.3	2630.8	2607.3	2603.4	2595.6	2611.3	2611.3	2619.1	2607.3
17.5°	2568.1	2556.5	2556.5	2548.7	2544.6	2564.3	2572.1	2576.0	2579.9	2564.3
20°	2505.6	2501.7	2513.4	2501.7	2505.6	2509.5	2509.5	2501.7	2536.8	2493.9
22.5°	2438.9	2450.7	2435.1	2427.2	2435.1	2442.9	2442.9	2446.8	2438.9	2431.1
25°	2372.5	2380.3	2384.1	2360.6	2372.5	2360.6	2388.1	2391.9	2376.3	2384.1
27.5°	2313.7	2302.0	2298.1	2282.4	2290.2	2286.4	2290.2	2290.2	2313.7	2282.4
30°	2223.6	2211.9	2215.8	2204.1	2207.9	2204.1	2207.9	2207.9	2223.6	2219.7
32.5°	2137.5	2125.8	2129.7	2118.0	2118.0	2121.9	2114.0	2114.0	2125.8	2118.0
35°	2055.3	2027.9	2031.8	2027.9	2031.8	2016.1	2016.1	2012.3	2020.2	2000.4
37.5°	1937.9	1926.2	1922.2	1918.3	1922.2	1914.4	1922.2	1910.5	1922.2	1906.5
40°	1832.1	1824.2	1828.3	1804.8	1804.8	1808.6	1800.9	1797.0	1800.9	1816.4
42.5°	1726.5	1710.8	1703.0	1695.3	1699.0	1687.4	1683.4	1675.5	1683.4	1667.7
45°	1601.2	1601.2	1597.3	1577.7	1581.6	1581.6	1566.0	1550.3	1554.2	1554.2
47.5°	1487.8	1479.9	1476.0	1456.4	1452.5	1448.6	1432.8	1421.1	1421.1	1409.3
50°	1362.3	1354.5	1342.8	1323.2	1315.3	1291.9	1280.2	1264.6	1248.9	1248.9
52.5°	1245.0	1217.5	1201.8	1170.5	1158.8	1147.0	1115.8	1104.1	1092.3	1080.6
55°	1104.1	1080.6	1049.2	1013.9	998.3	978.6	947.3	923.9	908.3	912.2
57.5°	967.1	927.9	896.6	849.6	829.9	818.1	786.8	755.6	739.9	739.9
60°	798.6	767.4	728.2	685.1	669.4	650.0	610.6	591.2	579.3	567.7
62.5°	638.1	614.6	579.3	524.6	512.9	493.2	466.0	442.5	430.7	430.7
65°	477.6	454.1	422.9	383.7	368.0	352.4	328.9	305.4	293.6	289.7
67.5°	336.7	309.2	282.0	250.6	238.8	231.0	207.5	191.8	184.0	180.0
70°	203.5	187.9	168.3	144.8	133.0	125.2	109.6	98.0	93.9	90.1
72.5°	105.8	93.9	78.2	62.7	54.8	47.0	39.2	31.3	27.5	27.5
75°	39.2	31.3	19.6	11.8	7.8	7.8	7.8	7.8	7.8	7.8
77.5°	7.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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)