

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: P#

Luminaire Tested: **LD4C65D010 EX4C659035 4LBCSSQMMS**

Issue Date: 5/25/2022



Test Information

Test Method: LM-79-08
Report Number: P#
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: LD4C65D010 EX4C659035 4LBCSSQMMS
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

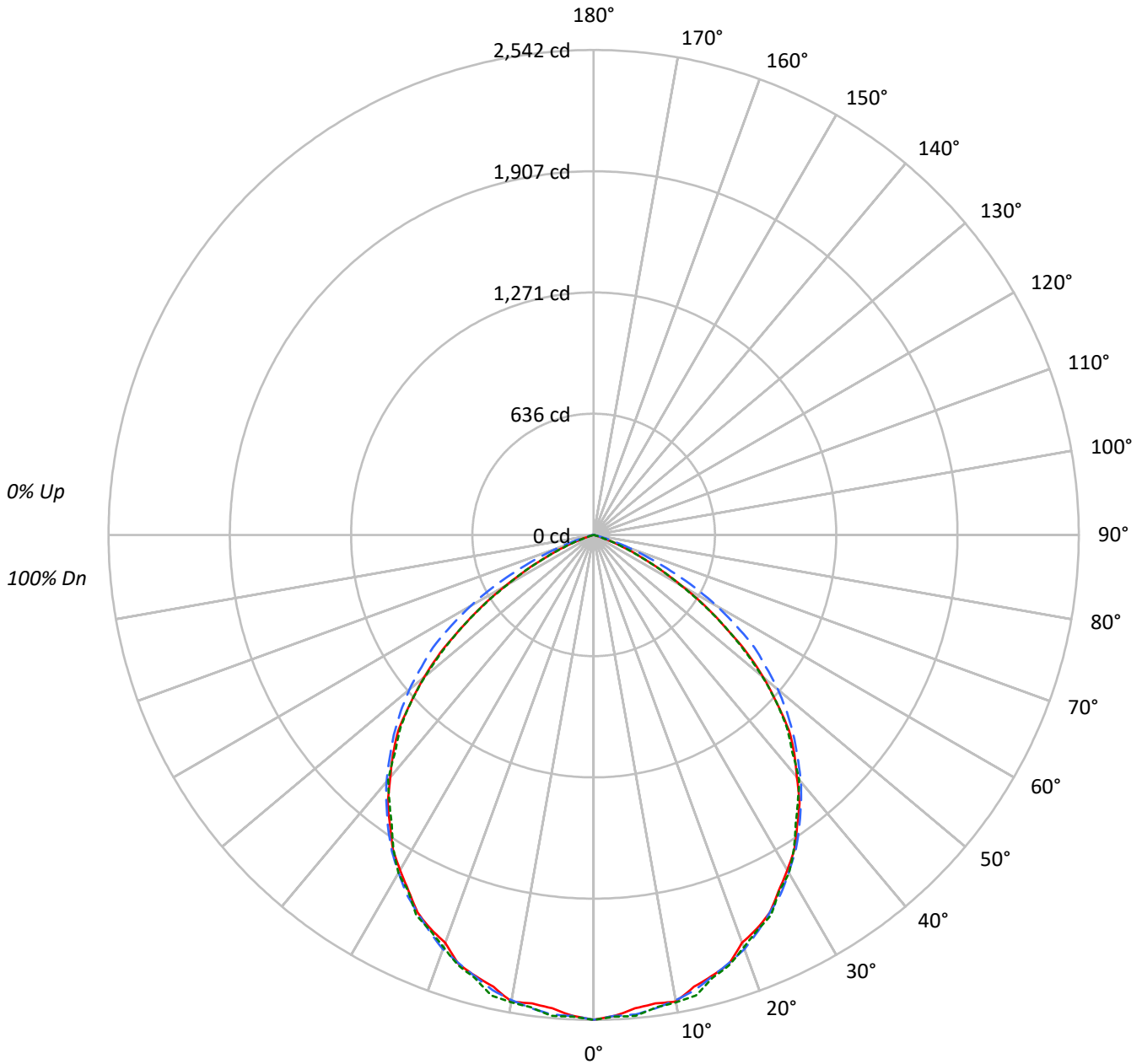
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5429.0 lumens
Efficiency: N/A
Efficacy: 75.0 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): 72.4
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	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°	245227	245227	245227
5°	241272	244410	245108
10°	243346	242641	243699
15°	239093	239443	240162
20°	233528	237235	236126
25°	232517	232517	234050
30°	226040	227645	228057
35°	218986	221118	217289
40°	208711	212792	210978
45°	197534	201968	195555
50°	173963	189124	172882
55°	140887	173068	141509
60°	103089	143518	101024
65°	62649	102193	61005
70°	24431	55012	23444
75°	2684	14838	2684
80°	2056	2056	2056
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	4.4
10°-20°	678.8	12.5
20°-30°	1007.2	18.6
30°-40°	1167.1	21.5
40°-50°	1119.0	20.6
50°-60°	822.7	15.2
60°-70°	355.3	6.5
70°-80°	38.4	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°	1926.0	35.5
0°-40°	3093.1	57.0
0°-60°	5034.8	92.7
0°-90°	5429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2542	2542	2542	2542	2542	
5°	2491	2516	2523	2527	2531	238
15°	2394	2408	2397	2401	2404	675
25°	2184	2180	2184	2188	2198	1000
35°	1859	1870	1877	1874	1845	1163
45°	1448	1451	1480	1458	1433	1100
55°	838	924	1029	921	841	754
65°	274	343	448	339	267	282
75°	7	11	40	7	7	22
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°	2541.5	2541.5	2541.5	2541.5	2541.5	2541.5	2541.5	2541.5	2541.5	2541.5	2541.5
2.5°	2523.4	2522.2	2555.9	2537.8	2530.6	2519.8	2545.0	2527.0	2534.3	2527.0	2523.4
5°	2491.0	2523.4	2527.0	2527.0	2519.8	2516.2	2527.0	2523.4	2519.8	2512.6	2523.4
7.5°	2476.5	2494.5	2512.6	2491.0	2501.7	2498.2	2523.4	2512.6	2508.9	2508.9	2501.7
10°	2483.7	2480.1	2494.5	2472.8	2480.1	2472.8	2494.5	2494.5	2487.3	2480.1	2476.5
12.5°	2425.9	2454.7	2454.7	2451.2	2444.0	2433.1	2454.7	2469.3	2447.5	2447.5	2444.0
15°	2393.5	2400.7	2404.2	2404.2	2400.7	2407.9	2418.6	2404.2	2407.9	2389.8	2397.0
17.5°	2357.4	2342.9	2353.7	2346.5	2350.2	2357.4	2371.8	2371.8	2350.2	2346.5	2353.7
20°	2274.3	2317.6	2321.3	2299.6	2303.2	2303.2	2328.5	2306.8	2321.3	2303.2	2310.4
22.5°	2234.5	2263.4	2267.1	2238.2	2256.2	2234.5	2259.9	2227.3	2263.4	2238.2	2249.0
25°	2184.0	2180.5	2191.2	2176.8	2180.5	2180.5	2198.4	2184.0	2194.9	2180.5	2184.0
27.5°	2101.1	2130.0	2126.3	2111.8	2119.1	2115.5	2151.6	2111.8	2133.5	2115.5	2122.7
30°	2028.8	2054.1	2046.9	2032.5	2032.5	2021.6	2061.3	2050.4	2046.9	2046.9	2043.2
32.5°	1956.6	1960.3	1953.1	1956.6	1960.3	1945.8	1978.2	1963.8	1960.3	1963.8	1967.5
35°	1859.1	1859.1	1866.3	1855.6	1870.0	1870.0	1898.9	1880.7	1877.2	1866.3	1877.2
37.5°	1772.5	1761.7	1765.3	1765.3	1772.5	1779.7	1794.1	1786.9	1786.9	1776.2	1783.4
40°	1657.0	1649.8	1660.5	1660.5	1671.4	1671.4	1685.9	1678.7	1689.4	1689.4	1689.4
42.5°	1556.0	1556.0	1548.7	1559.5	1563.2	1559.5	1584.8	1581.2	1584.8	1577.6	1581.2
45°	1447.6	1447.6	1440.3	1436.8	1454.8	1451.2	1480.1	1469.2	1483.7	1476.4	1480.1
47.5°	1299.5	1317.7	1306.8	1317.7	1339.3	1343.0	1361.0	1353.7	1368.2	1357.4	1371.9
50°	1158.9	1158.9	1169.6	1184.1	1205.7	1209.4	1231.0	1245.5	1252.7	1256.2	1259.9
52.5°	1010.8	1007.2	1018.1	1036.0	1054.2	1068.6	1090.2	1111.9	1126.3	1148.0	1137.1
55°	837.5	844.7	855.6	877.3	906.1	924.1	942.2	971.1	996.4	1007.2	1028.8
57.5°	689.5	682.2	689.5	718.3	750.9	765.3	790.6	819.5	855.6	877.3	884.5
60°	534.2	537.9	545.1	570.5	595.6	617.3	628.2	675.0	707.6	729.2	743.7
62.5°	393.6	400.8	408.0	429.6	454.8	472.9	490.9	530.7	559.6	581.2	595.6
65°	274.4	277.9	288.8	299.6	324.9	342.9	357.3	389.9	418.7	436.9	447.6
67.5°	169.7	173.2	180.4	195.0	213.0	227.4	241.9	263.5	288.8	306.8	310.5
70°	86.6	90.3	93.8	104.7	119.2	126.4	137.1	155.2	173.2	187.6	195.0
72.5°	28.9	28.9	32.5	39.8	47.0	54.2	57.7	75.9	90.3	97.5	101.0
75°	7.2	7.2	7.2	7.2	7.2	10.9	10.9	21.7	28.9	36.1	39.8
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	7.2	7.2
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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°	2541.5	2541.5	2541.5	2541.5	2541.5	2541.5	2541.5	2541.5	2541.5	2541.5
2.5°	2541.5	2534.3	2530.6	2534.3	2534.3	2530.6	2541.5	2555.9	2573.9	2527.0
5°	2537.8	2530.6	2537.8	2516.2	2527.0	2519.8	2534.3	2530.6	2545.0	2530.6
7.5°	2527.0	2512.6	2516.2	2505.4	2519.8	2501.7	2512.6	2534.3	2519.8	2498.2
10°	2491.0	2483.7	2508.9	2472.8	2465.6	2480.1	2508.9	2487.3	2480.1	2487.3
12.5°	2454.7	2454.7	2465.6	2436.8	2440.3	2447.5	2462.0	2447.5	2454.7	2472.8
15°	2415.1	2407.9	2425.9	2404.2	2400.7	2393.5	2407.9	2407.9	2415.1	2404.2
17.5°	2368.1	2357.4	2357.4	2350.2	2346.5	2364.6	2371.8	2375.3	2379.0	2364.6
20°	2310.4	2306.8	2317.6	2306.8	2310.4	2314.1	2314.1	2306.8	2339.3	2299.6
22.5°	2249.0	2259.9	2245.4	2238.2	2245.4	2252.6	2252.6	2256.2	2249.0	2241.8
25°	2187.7	2194.9	2198.4	2176.8	2187.7	2176.8	2202.1	2205.7	2191.2	2198.4
27.5°	2133.5	2122.7	2119.1	2104.6	2111.8	2108.3	2111.8	2111.8	2133.5	2104.6
30°	2050.4	2039.7	2043.2	2032.5	2036.0	2032.5	2036.0	2036.0	2050.4	2046.9
32.5°	1971.0	1960.3	1963.8	1953.1	1953.1	1956.6	1949.4	1949.4	1960.3	1953.1
35°	1895.2	1870.0	1873.5	1870.0	1873.5	1859.1	1859.1	1855.6	1862.8	1844.7
37.5°	1786.9	1776.2	1772.5	1768.9	1772.5	1765.3	1772.5	1761.7	1772.5	1758.1
40°	1689.4	1682.2	1685.9	1664.2	1664.2	1667.8	1660.5	1657.0	1660.5	1675.0
42.5°	1592.1	1577.6	1570.4	1563.2	1566.7	1556.0	1552.3	1545.1	1552.3	1537.9
45°	1476.4	1476.4	1472.9	1454.8	1458.5	1458.5	1444.0	1429.6	1433.1	1433.1
47.5°	1371.9	1364.6	1361.0	1343.0	1339.3	1335.8	1321.2	1310.4	1310.4	1299.5
50°	1256.2	1249.0	1238.3	1220.1	1212.9	1191.3	1180.5	1166.1	1151.7	1151.7
52.5°	1148.0	1122.6	1108.2	1079.3	1068.6	1057.7	1028.8	1018.1	1007.2	996.4
55°	1018.1	996.4	967.5	935.0	920.6	902.4	873.6	851.9	837.5	841.2
57.5°	891.7	855.6	826.7	783.4	765.3	754.4	725.6	696.7	682.2	682.2
60°	736.4	707.6	671.5	631.7	617.3	599.3	563.1	545.1	534.2	523.5
62.5°	588.4	566.8	534.2	483.7	472.9	454.8	429.6	408.0	397.1	397.1
65°	440.4	418.7	389.9	353.8	339.4	324.9	303.3	281.6	270.7	267.2
67.5°	310.5	285.2	260.0	231.1	220.2	213.0	191.3	176.9	169.7	166.0
70°	187.6	173.2	155.2	133.6	122.7	115.5	101.0	90.3	86.6	83.1
72.5°	97.5	86.6	72.2	57.7	50.5	43.3	36.1	28.9	25.3	25.3
75°	36.1	28.9	18.1	10.9	7.2	7.2	7.2	7.2	7.2	7.2
77.5°	7.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)