

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: P563867

Luminaire Tested: **LD4C55D010 EX4C559030 4LBCSSQMMS**

Issue Date: 5/25/2022



Test Information

Test Method: LM-79-08
Report Number: P563867
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 4LBCSSQMMS
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCSSQ TRIM WITH MMS FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

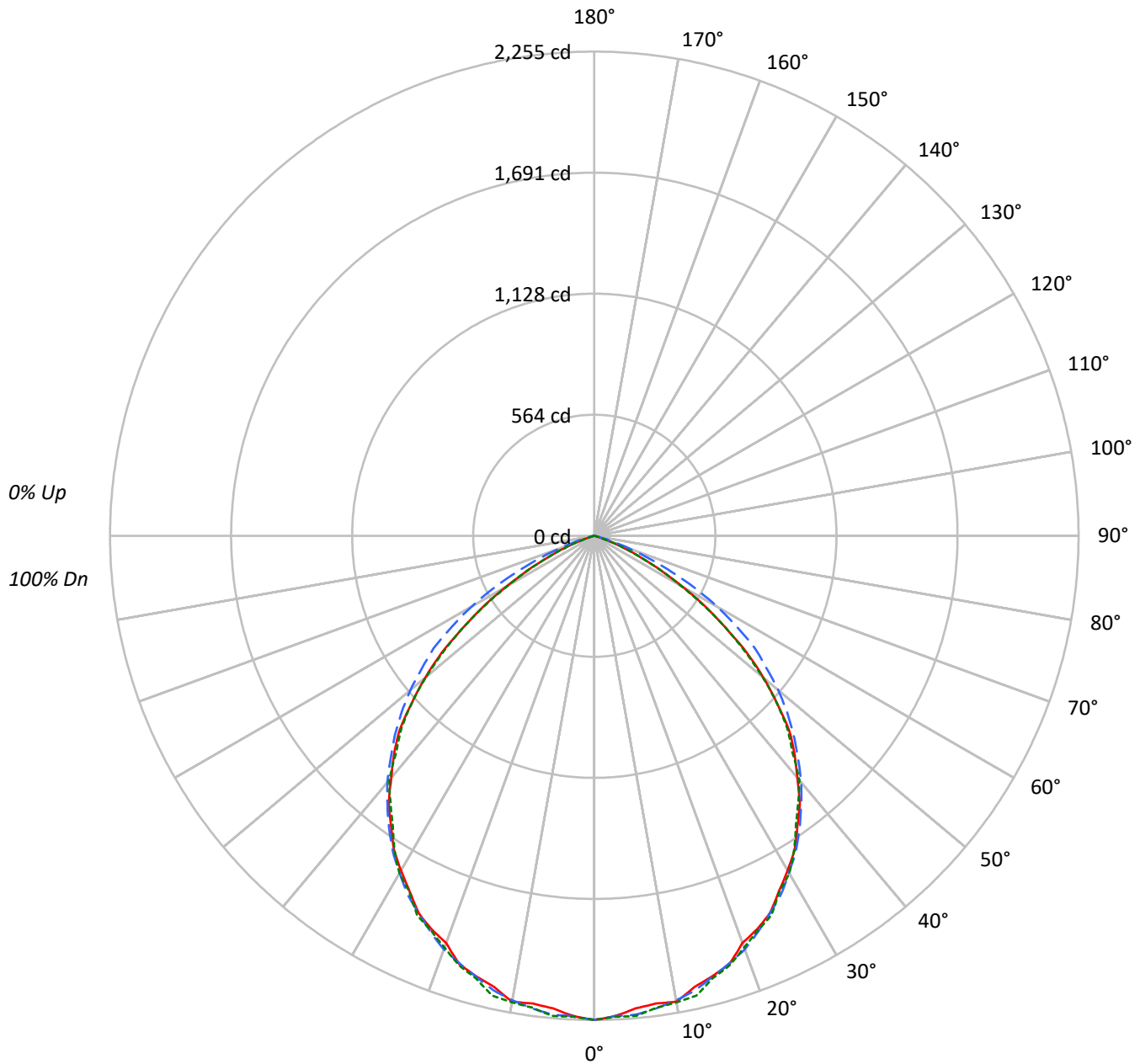
Lumens per Lamp: N/A
Luminaire Lumens: 4816.4 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P563867

CATALOG NUMBER: LD4C55D010 EX4C559030 4LBCSSQMMMS

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	30	10	50	30	10
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°	217554	217554	217554
5°	214045	216835	217455
10°	215893	215266	216197
15°	212112	212432	213071
20°	207180	210466	209490
25°	206284	206284	207647
30°	200526	201963	202320
35°	194273	196169	192777
40°	185170	188785	187173
45°	175237	179180	173490
50°	154328	167793	153367
55°	124990	153537	125528
60°	91452	127327	89638
65°	55571	90663	54110
70°	21666	48806	20792
75°	2386	13160	2386
80°	1834	1834	1834
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	4.4
10°-20°	602.2	12.5
20°-30°	893.6	18.6
30°-40°	1035.4	21.5
40°-50°	992.7	20.6
50°-60°	729.9	15.2
60°-70°	315.2	6.5
70°-80°	34.1	0.7
80°-90°	0.4	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°	1708.7	35.5
0°-40°	2744.1	57.0
0°-60°	4466.7	92.7
0°-90°	4816.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4816.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2255	2255	2255	2255	2255	
5°	2210	2232	2239	2242	2245	211
15°	2123	2136	2127	2130	2133	598
25°	1938	1934	1938	1941	1950	887
35°	1649	1659	1665	1662	1637	1031
45°	1284	1288	1313	1294	1271	976
55°	743	820	913	817	746	669
65°	243	304	397	301	237	250
75°	6	10	35	6	6	20
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P563867

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7
2.5°	2238.7	2264.3	2267.5	2251.5	2245.1	2235.5	2257.9	2241.9	2248.3	2241.9	2238.7
5°	2209.9	2238.7	2241.9	2241.9	2235.5	2232.2	2241.9	2238.7	2235.5	2229.1	2238.7
7.5°	2197.1	2213.0	2229.1	2209.9	2219.4	2216.3	2238.7	2229.1	2225.8	2225.8	2219.4
10°	2203.5	2200.2	2213.0	2193.8	2200.2	2193.8	2213.0	2213.0	2206.6	2200.2	2197.1
12.5°	2152.2	2177.7	2177.7	2174.7	2168.3	2158.6	2177.7	2190.7	2171.3	2171.3	2168.3
15°	2123.4	2129.8	2133.0	2133.0	2129.8	2136.2	2145.8	2133.0	2136.2	2120.1	2126.6
17.5°	2091.4	2078.5	2088.1	2081.7	2085.0	2091.4	2104.2	2104.2	2085.0	2081.7	2088.1
20°	2017.7	2056.1	2059.3	2040.2	2043.4	2043.4	2065.7	2046.6	2059.3	2043.4	2049.7
22.5°	1982.4	2008.1	2011.3	1985.7	2001.6	1982.4	2004.9	1976.0	2008.1	1985.7	1995.2
25°	1937.6	1934.4	1944.0	1931.2	1934.4	1934.4	1950.4	1937.6	1947.2	1934.4	1937.6
27.5°	1864.0	1889.7	1886.4	1873.6	1880.0	1876.8	1908.9	1873.6	1892.8	1876.8	1883.2
30°	1799.8	1822.3	1815.9	1803.1	1803.1	1793.4	1828.7	1819.1	1815.9	1815.9	1812.7
32.5°	1735.9	1739.1	1732.7	1735.9	1739.1	1726.3	1755.1	1742.3	1739.1	1742.3	1745.5
35°	1649.3	1649.3	1655.7	1646.2	1659.0	1659.0	1684.6	1668.5	1665.4	1655.7	1665.4
37.5°	1572.5	1562.9	1566.1	1566.1	1572.5	1578.9	1591.7	1585.3	1585.3	1575.7	1582.2
40°	1470.1	1463.6	1473.2	1473.2	1482.9	1482.9	1495.7	1489.3	1498.8	1498.8	1498.8
42.5°	1380.4	1380.4	1374.0	1383.5	1386.9	1383.5	1406.0	1402.7	1406.0	1399.6	1402.7
45°	1284.2	1284.2	1277.8	1274.7	1290.6	1287.5	1313.1	1303.4	1316.3	1309.8	1313.1
47.5°	1152.9	1169.0	1159.3	1169.0	1188.2	1191.4	1207.4	1201.0	1213.8	1204.3	1217.1
50°	1028.1	1028.1	1037.6	1050.5	1069.7	1072.9	1092.2	1105.0	1111.4	1114.4	1117.8
52.5°	896.8	893.5	903.2	919.1	935.2	948.0	967.3	986.5	999.2	1018.4	1008.8
55°	743.0	749.4	759.0	778.3	803.9	819.9	835.9	861.5	883.9	893.5	912.7
57.5°	611.6	605.2	611.6	637.3	666.2	679.0	701.5	727.1	759.0	778.3	784.7
60°	473.9	477.2	483.6	506.1	528.4	547.7	557.3	598.8	627.7	646.9	659.8
62.5°	349.1	355.5	361.9	381.1	403.5	419.6	435.6	470.8	496.4	515.6	528.4
65°	243.4	246.6	256.2	265.8	288.3	304.2	317.0	345.8	371.5	387.6	397.1
67.5°	150.5	153.7	160.1	173.0	189.0	201.7	214.5	233.8	256.2	272.2	275.5
70°	76.8	80.1	83.2	92.9	105.7	112.1	121.7	137.7	153.7	166.5	173.0
72.5°	25.6	25.6	28.9	35.3	41.7	48.1	51.3	67.3	80.1	86.5	89.6
75°	6.4	6.4	6.4	6.4	6.4	9.7	9.7	19.2	25.6	32.0	35.3
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.4	6.4
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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



TEST NUMBER: P563867

CATALOG NUMBER: LD4C55D010 EX4C559030 4LBCSSQMMS

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7	2254.7
2.5°	2254.7	2248.3	2245.1	2248.3	2248.3	2245.1	2254.7	2267.5	2283.5	2241.9
5°	2251.5	2245.1	2251.5	2232.2	2241.9	2235.5	2248.3	2245.1	2257.9	2245.1
7.5°	2241.9	2229.1	2232.2	2222.7	2235.5	2219.4	2229.1	2248.3	2235.5	2216.3
10°	2209.9	2203.5	2225.8	2193.8	2187.4	2200.2	2225.8	2206.6	2200.2	2206.6
12.5°	2177.7	2177.7	2187.4	2161.9	2165.0	2171.3	2184.1	2171.3	2177.7	2193.8
15°	2142.6	2136.2	2152.2	2133.0	2129.8	2123.4	2136.2	2136.2	2142.6	2133.0
17.5°	2100.9	2091.4	2091.4	2085.0	2081.7	2097.8	2104.2	2107.3	2110.6	2097.8
20°	2049.7	2046.6	2056.1	2046.6	2049.7	2053.0	2053.0	2046.6	2075.3	2040.2
22.5°	1995.2	2004.9	1992.1	1985.7	1992.1	1998.5	1998.5	2001.6	1995.2	1988.8
25°	1940.8	1947.2	1950.4	1931.2	1940.8	1931.2	1953.6	1956.8	1944.0	1950.4
27.5°	1892.8	1883.2	1880.0	1867.2	1873.6	1870.4	1873.6	1873.6	1892.8	1867.2
30°	1819.1	1809.5	1812.7	1803.1	1806.2	1803.1	1806.2	1806.2	1819.1	1815.9
32.5°	1748.7	1739.1	1742.3	1732.7	1732.7	1735.9	1729.4	1729.4	1739.1	1732.7
35°	1681.3	1659.0	1662.1	1659.0	1662.1	1649.3	1649.3	1646.2	1652.6	1636.6
37.5°	1585.3	1575.7	1572.5	1569.3	1572.5	1566.1	1572.5	1562.9	1572.5	1559.7
40°	1498.8	1492.4	1495.7	1476.5	1476.5	1479.6	1473.2	1470.1	1473.2	1486.0
42.5°	1412.4	1399.6	1393.3	1386.9	1389.9	1380.4	1377.2	1370.8	1377.2	1364.4
45°	1309.8	1309.8	1306.7	1290.6	1293.9	1293.9	1281.1	1268.2	1271.4	1271.4
47.5°	1217.1	1210.7	1207.4	1191.4	1188.2	1185.0	1172.1	1162.6	1162.6	1152.9
50°	1114.4	1108.1	1098.6	1082.5	1076.1	1056.9	1047.3	1034.5	1021.7	1021.7
52.5°	1018.4	995.9	983.1	957.6	948.0	938.4	912.7	903.2	893.5	883.9
55°	903.2	883.9	858.4	829.5	816.7	800.6	775.0	755.8	743.0	746.2
57.5°	791.1	759.0	733.5	695.1	679.0	669.3	643.7	618.1	605.2	605.2
60°	653.3	627.7	595.8	560.5	547.7	531.7	499.5	483.6	473.9	464.5
62.5°	522.0	502.8	473.9	429.2	419.6	403.5	381.1	361.9	352.3	352.3
65°	390.7	371.5	345.8	313.9	301.1	288.3	269.0	249.8	240.2	237.0
67.5°	275.5	253.0	230.6	205.1	195.4	189.0	169.8	157.0	150.5	147.3
70°	166.5	153.7	137.7	118.5	108.8	102.4	89.6	80.1	76.8	73.7
72.5°	86.5	76.8	64.0	51.3	44.9	38.5	32.0	25.6	22.5	22.5
75°	32.0	25.6	16.1	9.7	6.4	6.4	6.4	6.4	6.4	6.4
77.5°	6.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)