

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: P879469

Luminaire Tested: **LD4C65D010 EU4659027 4LBLDWWLI**

Issue Date: 10/1/2024

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: P879469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C65D010 EU4659027 4LBLDWWLI
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

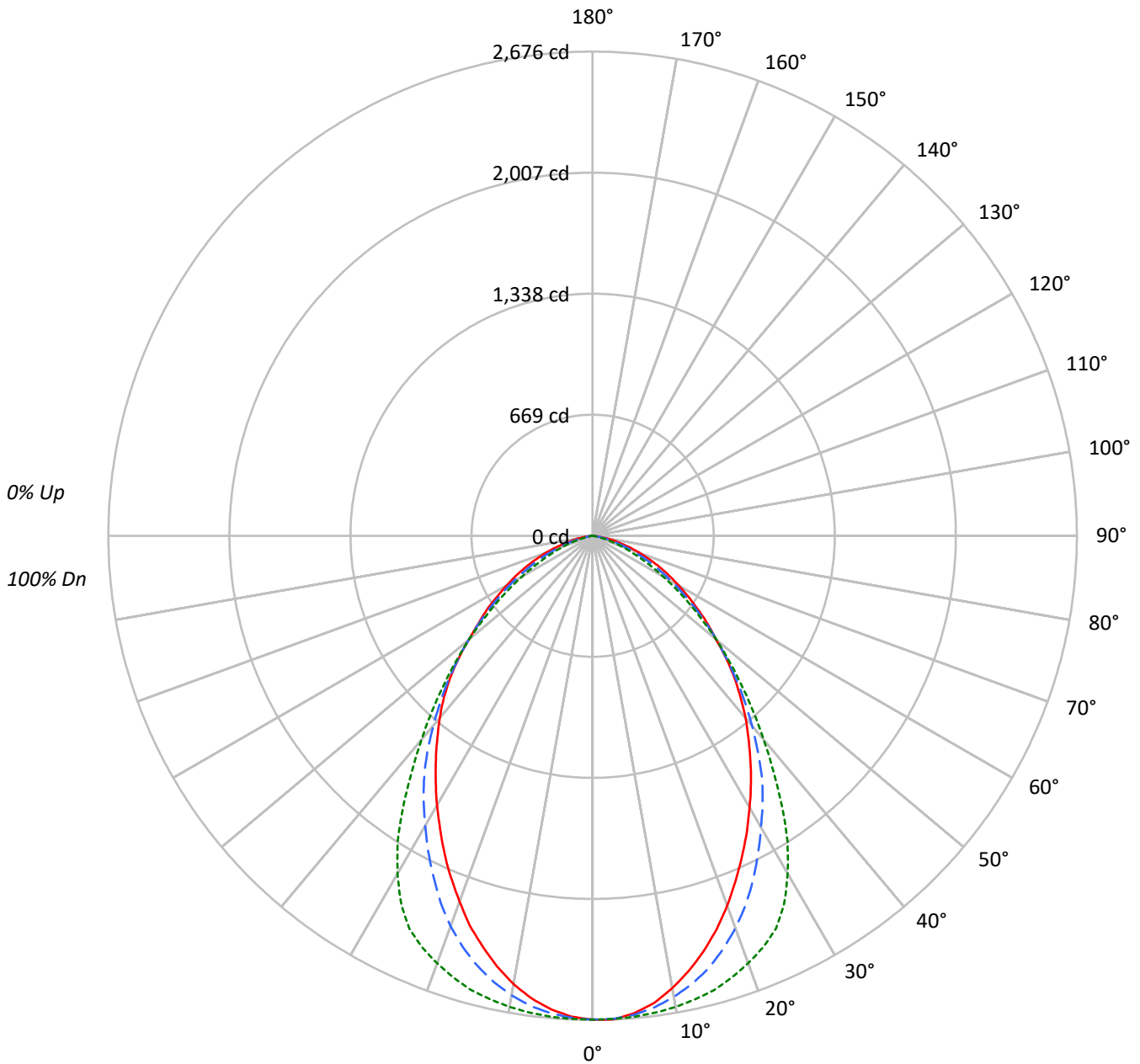
Lumens per Lamp: N/A
Luminaire Lumens: 4911.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
Input Voltage (V): NR
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									
RC	80									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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77																			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	328510	328510	328510
5°	326559	329025	324092
10°	316612	329836	313868
15°	302070	330560	298763
20°	284224	328675	281087
25°	264737	324787	262568
30°	245983	305848	243997
35°	228114	273557	226464
40°	210892	235910	210731
45°	192158	201366	193721
50°	169720	170293	170676
55°	152074	139223	152716
60°	134402	110568	134647
65°	118313	84302	117151
70°	98061	60346	98061
75°	76422	34651	73574
80°	49524	8490	47401
85°	18325	2819	14096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	5.1
10°-20°	694.5	14.1
20°-30°	970.8	19.8
30°-40°	1024.1	20.9
40°-50°	871.2	17.7
50°-60°	614.7	12.5
60°-70°	348.5	7.1
70°-80°	124.3	2.5
80°-90°	11.9	0.2
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°	1916.3	39.0
0°-40°	2940.4	59.9
0°-60°	4426.3	90.1
0°-90°	4911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4911.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2674	2674	2674	2674	2674	
5°	2648	2657	2668	2649	2628	249
15°	2375	2475	2599	2461	2349	666
25°	1953	2099	2396	2080	1937	899
35°	1521	1631	1824	1622	1510	951
45°	1106	1122	1159	1127	1115	850
55°	710	686	650	688	713	638
65°	407	349	290	350	403	403
75°	161	110	73	108	155	174
85°	13	5	2	5	10	23
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°	2674	2674	2674	2674	2674	2674	2674	2674	2674	2674	2674
2.5°	2676	2671	2671	2671	2671	2671	2671	2671	2671	2672	2672
5°	2648	2646	2645	2645	2645	2645	2646	2650	2652	2655	2657
7.5°	2604	2600	2602	2602	2604	2606	2609	2613	2619	2623	2628
10°	2538	2534	2539	2541	2547	2550	2555	2561	2573	2579	2587
12.5°	2461	2459	2461	2469	2475	2479	2485	2498	2510	2523	2537
15°	2375	2370	2373	2383	2393	2400	2405	2422	2438	2458	2475
17.5°	2279	2272	2280	2288	2301	2307	2314	2333	2355	2377	2396
20°	2174	2172	2177	2188	2201	2209	2215	2236	2255	2285	2307
22.5°	2065	2067	2071	2083	2092	2103	2112	2131	2153	2181	2209
25°	1953	1956	1963	1971	1986	1992	2003	2023	2042	2068	2099
27.5°	1845	1846	1854	1858	1872	1885	1890	1911	1933	1953	1980
30°	1734	1737	1742	1753	1767	1772	1778	1797	1814	1839	1860
32.5°	1628	1626	1632	1638	1654	1663	1666	1688	1703	1728	1748
35°	1521	1516	1525	1531	1545	1553	1557	1574	1588	1609	1631
37.5°	1414	1418	1422	1427	1434	1436	1448	1452	1470	1486	1498
40°	1315	1313	1311	1316	1325	1329	1330	1341	1345	1361	1370
42.5°	1209	1210	1209	1210	1215	1215	1218	1225	1228	1233	1244
45°	1106	1106	1103	1104	1105	1104	1105	1108	1114	1114	1122
47.5°	999	997	1001	998	996	995	998	995	1001	1001	1003
50°	888	888	893	892	894	890	891	891	892	891	895
52.5°	802	800	798	793	795	791	791	792	789	788	783
55°	710	712	709	707	707	703	702	696	692	689	686
57.5°	627	629	628	623	617	618	616	610	601	595	590
60°	547	549	547	542	540	536	535	527	520	512	506
62.5°	475	475	474	467	462	463	458	452	443	432	423
65°	407	406	401	398	394	389	386	377	370	361	349
67.5°	339	336	334	331	322	321	317	309	299	292	282
70°	273	272	268	268	261	258	252	245	236	226	218
72.5°	216	214	210	206	200	198	193	186	178	168	158
75°	161	159	158	153	148	143	141	134	126	119	110
77.5°	113	111	108	105	102	99	96	90	83	77	69
80°	70	68	66	65	62	61	57	54	48	44	39
82.5°	36	36	34	33	31	30	29	26	23	20	17
85°	13	13	12	11	11	10	10	9	7	7	5
87.5°	1	1	2	1	1	1	1	1	1	1	0
90°	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°	95°
0°	2674	2674	2674	2674	2674	2674	2674	2674	2674	2674	2674
2.5°	2673	2672	2673	2673	2674	2674	2674	2673	2674	2673	2673
5°	2657	2660	2662	2664	2665	2666	2666	2667	2668	2668	2667
7.5°	2632	2638	2644	2648	2650	2652	2655	2657	2659	2658	2657
10°	2599	2609	2617	2625	2629	2632	2637	2641	2643	2644	2641
12.5°	2552	2566	2579	2592	2598	2602	2612	2619	2623	2623	2620
15°	2493	2513	2532	2549	2559	2565	2580	2590	2596	2599	2594
17.5°	2422	2445	2468	2490	2500	2509	2530	2544	2557	2559	2553
20°	2331	2360	2386	2413	2424	2438	2462	2485	2505	2514	2497
22.5°	2229	2261	2285	2318	2333	2348	2379	2408	2443	2462	2432
25°	2123	2150	2179	2211	2232	2248	2284	2321	2368	2396	2354
27.5°	2009	2033	2068	2103	2119	2139	2182	2222	2267	2292	2261
30°	1891	1921	1954	1986	2009	2028	2063	2097	2135	2156	2133
32.5°	1774	1803	1831	1866	1879	1896	1927	1956	1985	2004	1977
35°	1651	1677	1703	1727	1733	1753	1778	1795	1809	1824	1806
37.5°	1517	1537	1550	1576	1586	1589	1609	1621	1636	1639	1638
40°	1381	1399	1410	1426	1434	1434	1448	1459	1470	1471	1470
42.5°	1254	1263	1272	1282	1280	1292	1298	1303	1311	1311	1313
45°	1126	1133	1141	1143	1151	1151	1156	1158	1162	1159	1155
47.5°	1007	1010	1011	1020	1022	1015	1021	1022	1021	1021	1019
50°	894	896	895	892	893	896	893	889	891	891	893
52.5°	784	780	778	778	774	774	769	767	766	762	767
55°	683	677	668	666	663	662	656	651	649	650	649
57.5°	586	577	571	569	566	560	553	548	547	545	545
60°	498	488	479	470	471	467	460	457	454	450	453
62.5°	418	407	397	388	382	379	374	369	366	363	367
65°	339	330	319	310	307	304	299	291	290	290	292
67.5°	268	258	248	242	238	234	232	228	225	223	224
70°	206	196	188	182	179	178	171	170	169	168	167
72.5°	150	142	135	131	127	124	122	119	118	118	118
75°	103	97	89	84	82	79	76	74	72	73	73
77.5°	62	56	51	47	46	43	40	38	35	35	36
80°	34	29	25	22	20	19	16	15	13	12	12
82.5°	15	12	10	9	8	7	6	5	5	4	5
85°	5	4	3	2	2	2	2	2	2	2	2
87.5°	1	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2674	2674	2674	2674	2674	2674	2674	2674	2674	2674	2674
2.5°	2672	2672	2671	2671	2671	2669	2669	2668	2667	2666	2664
5°	2665	2664	2662	2661	2660	2657	2654	2652	2649	2645	2643
7.5°	2655	2652	2648	2646	2643	2636	2631	2626	2621	2614	2606
10°	2638	2632	2626	2622	2617	2608	2598	2590	2579	2569	2558
12.5°	2614	2607	2595	2589	2583	2570	2557	2540	2525	2511	2498
15°	2584	2571	2557	2549	2540	2519	2499	2481	2461	2444	2423
17.5°	2540	2521	2501	2492	2480	2456	2432	2407	2384	2363	2337
20°	2474	2453	2427	2413	2403	2371	2348	2320	2296	2270	2241
22.5°	2397	2368	2339	2319	2308	2276	2245	2220	2194	2164	2143
25°	2310	2274	2239	2219	2202	2168	2138	2112	2080	2054	2033
27.5°	2212	2171	2130	2110	2094	2057	2025	1998	1967	1944	1922
30°	2095	2058	2019	2003	1984	1946	1909	1885	1851	1827	1803
32.5°	1949	1925	1894	1872	1862	1827	1796	1767	1738	1719	1695
35°	1789	1768	1742	1730	1717	1695	1670	1645	1622	1604	1582
37.5°	1627	1606	1590	1577	1569	1549	1534	1515	1499	1482	1470
40°	1459	1453	1436	1430	1428	1406	1393	1378	1368	1358	1351
42.5°	1310	1300	1287	1288	1282	1270	1261	1251	1244	1239	1232
45°	1163	1155	1149	1154	1144	1140	1133	1132	1127	1118	1115
47.5°	1023	1022	1023	1020	1018	1016	1017	1012	1007	1004	1000
50°	895	896	898	901	894	897	896	895	895	892	894
52.5°	771	772	774	777	778	778	781	783	787	792	792
55°	654	661	665	670	667	673	676	685	688	688	692
57.5°	550	557	560	566	568	573	581	586	593	599	605
60°	455	458	466	475	473	485	491	499	508	512	520
62.5°	370	374	380	383	390	396	410	418	426	436	444
65°	294	298	304	310	313	322	329	343	350	361	370
67.5°	225	231	236	240	242	251	262	268	281	292	299
70°	168	173	179	178	182	189	197	206	216	226	234
72.5°	117	122	126	127	131	136	142	149	157	167	178
75°	74	75	79	81	83	89	94	101	108	116	123
77.5°	37	40	42	44	45	50	55	61	67	75	82
80°	14	15	18	19	21	24	28	31	36	42	46
82.5°	5	6	7	7	8	10	11	14	17	19	21
85°	2	2	2	2	2	3	3	4	5	6	6
87.5°	0	0	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2674	2674	2674	2674	2674	2674	2674	2674
2.5°	2663	2663	2662	2661	2661	2661	2660	2660
5°	2639	2636	2635	2633	2632	2631	2628	2628
7.5°	2600	2596	2593	2590	2586	2583	2583	2579
10°	2548	2540	2536	2532	2527	2521	2519	2516
12.5°	2485	2469	2465	2458	2450	2446	2439	2439
15°	2407	2390	2381	2377	2367	2360	2357	2349
17.5°	2316	2303	2289	2283	2272	2263	2259	2258
20°	2224	2203	2194	2185	2172	2164	2158	2150
22.5°	2118	2099	2086	2080	2069	2055	2045	2045
25°	2006	1989	1982	1969	1956	1951	1939	1937
27.5°	1899	1882	1868	1861	1846	1839	1829	1825
30°	1788	1768	1758	1757	1739	1732	1724	1720
32.5°	1677	1660	1650	1644	1636	1624	1617	1613
35°	1567	1556	1547	1540	1527	1521	1515	1510
37.5°	1452	1442	1438	1432	1426	1415	1413	1409
40°	1341	1328	1328	1324	1318	1317	1314	1314
42.5°	1225	1219	1218	1219	1215	1213	1210	1217
45°	1110	1113	1108	1109	1107	1111	1111	1115
47.5°	1004	1000	1002	1004	1007	1007	1006	1005
50°	891	895	899	894	896	897	892	893
52.5°	794	795	798	795	798	797	799	795
55°	700	700	704	705	706	709	710	713
57.5°	609	614	619	618	622	626	623	626
60°	530	534	539	541	544	546	546	548
62.5°	450	458	462	466	466	470	474	475
65°	378	387	390	393	395	399	404	403
67.5°	310	316	320	322	328	330	334	338
70°	243	251	254	258	263	267	271	273
72.5°	186	192	194	198	203	207	209	212
75°	130	140	141	144	148	153	156	155
77.5°	86	93	94	98	102	106	107	108
80°	51	55	56	58	61	63	65	67
82.5°	24	26	28	28	30	32	32	33
85°	8	8	9	9	10	10	11	10
87.5°	1	1	0	1	1	1	1	1
90°	0	0	0	0	0	0	0	0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)