

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: METALUX

Report Number: P201253

Luminaire Tested: **4LBLED-LD4-11-SYMF-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28138)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-11-SYMF-UNV-L840-CD1-U
Description: 4 ft. Low Bay Linear, 11000 lm, Frst Sym lens, 4K
Light Source: (392) 4000K CCT, 80 CRI LEDS
2UT217098A8404C
Ballast/Driver: OSRAM
(OT85W01920CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11777.9 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.99 / 1.87
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.21')
CIE Type: Semi-Direct

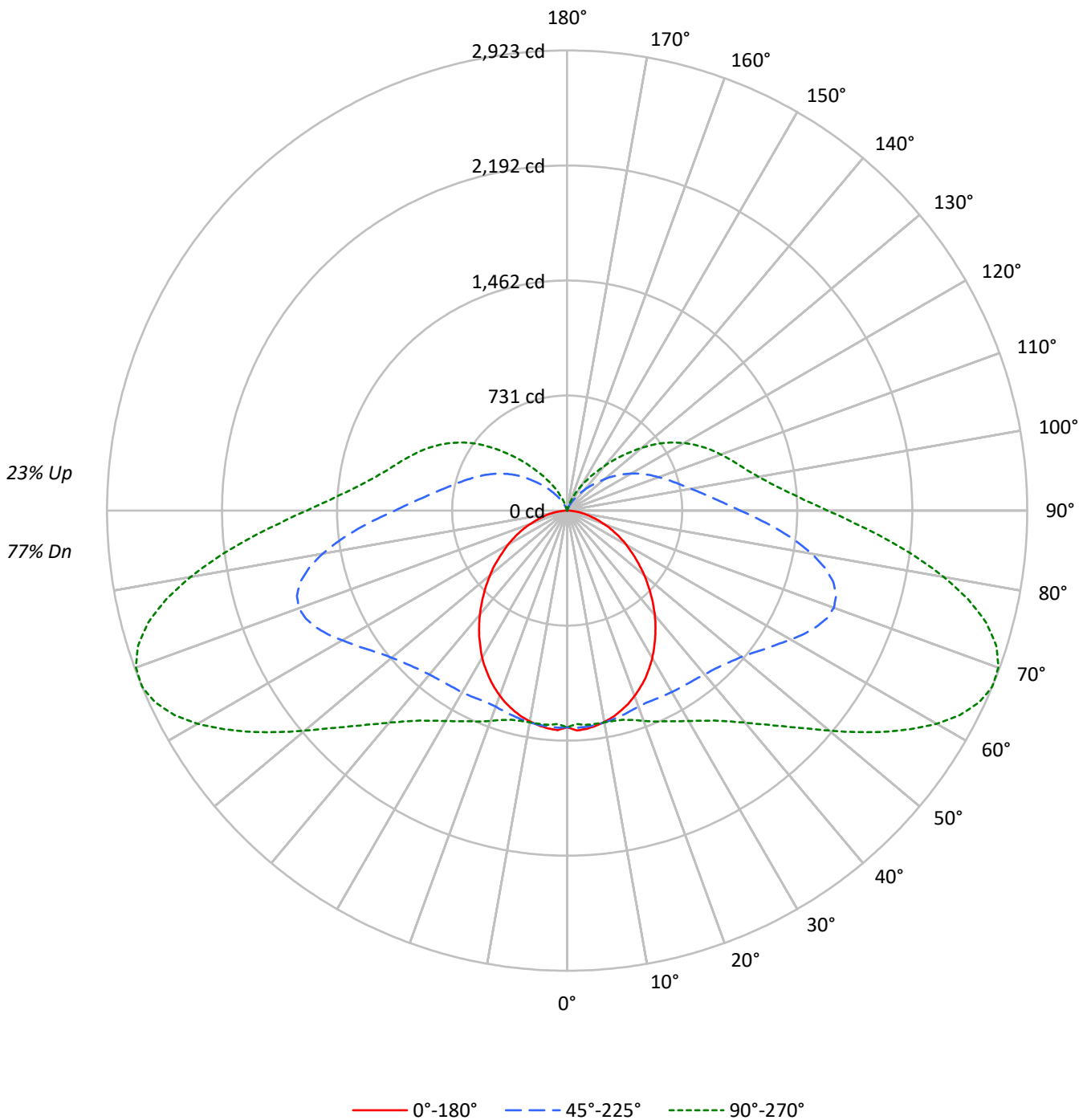
Input Watts (W): 88.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	98	91	84	78	92	86	80	75	77	73	68	69	65	62	62	59	56	52
2	86	75	66	59	81	71	63	56	64	57	51	57	51	47	50	46	42	38
3	77	64	54	46	72	61	51	44	54	46	40	48	42	37	43	37	33	29
4	70	55	45	37	65	52	43	36	47	39	32	42	35	30	37	31	27	23
5	63	49	38	31	59	46	37	29	41	33	27	37	30	25	32	27	22	19
6	58	43	33	26	55	41	32	25	37	29	23	33	26	21	29	23	19	16
7	54	39	29	22	50	37	28	21	33	25	20	30	23	18	26	21	16	14
8	50	35	26	19	47	33	25	19	30	22	17	27	20	16	24	18	14	12
9	46	32	23	17	44	30	22	16	27	20	15	25	18	14	22	17	13	10
10	43	29	21	15	41	28	20	15	25	18	14	23	17	12	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22172	22172	22172
5°	22414	19924	22366
10°	22099	18326	22050
15°	21652	17211	21619
20°	21087	16778	21053
25°	20414	16612	20327
30°	19527	16700	19509
35°	18525	17106	18487
40°	17455	18082	17374
45°	16290	19647	16246
50°	15108	21937	15060
55°	13912	24769	13886
60°	12831	27652	12861
65°	11629	29975	11663
70°	10347	31057	10347
75°	8812	30389	8759
80°	7094	27964	7023
85°	4870	24560	4638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.1
10°-20°	380.0	3.2
20°-30°	610.7	5.2
30°-40°	827.0	7.0
40°-50°	1062.4	9.0
50°-60°	1366.9	11.6
60°-70°	1672.2	14.2
70°-80°	1690.6	14.4
80°-90°	1307.3	11.1
90°-100°	908.3	7.7
100°-110°	678.4	5.8
110°-120°	508.5	4.3
120°-130°	342.4	2.9
130°-140°	187.8	1.6
140°-150°	80.0	0.7
150°-160°	22.9	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	1121.4	9.5
0°-40°	1948.3	16.5
0°-60°	4377.6	37.2
0°-90°	9047.7	76.8
90°-120°	2095.1	17.8
90°-150°	2705.3	23.0
90°-180°	2730.0	23.2
0°-180°	11777.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1376	1376	1376	1376	1376	
5°	1392	1379	1366	1377	1389	132
15°	1316	1347	1376	1347	1314	371
25°	1176	1322	1477	1323	1171	540
35°	976	1340	1628	1341	974	610
45°	752	1391	1936	1397	750	580
55°	532	1533	2450	1540	531	476
65°	339	1747	2886	1758	340	337
75°	169	1750	2757	1756	168	181
85°	42	1338	2024	1334	40	46
90°	1	1099	1653	1093	0	3
95°	1	927	1398	923	0	1
105°	1	701	1127	701	0	1
115°	1	545	954	545	0	1
125°	1	391	748	389	0	1
135°	2	236	491	233	0	2
145°	2	120	270	115	0	1
155°	2	38	112	36	0	1
165°	2	2	11	5	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P201253

CATALOG NUMBER: 4LBLED-LD4-11-SYMF-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1376	1376	1376	1376	1376	1376	1376	1376	1376	1376	1376
2.5°	1398	1397	1391	1382	1378	1377	1376	1372	1371	1373	1381
5°	1392	1391	1385	1376	1373	1372	1371	1368	1368	1371	1379
7.5°	1380	1379	1373	1366	1363	1362	1362	1360	1360	1365	1374
10°	1363	1362	1357	1351	1349	1349	1349	1348	1350	1356	1366
12.5°	1343	1341	1337	1332	1332	1332	1333	1333	1336	1346	1358
15°	1316	1317	1313	1309	1311	1312	1314	1316	1321	1333	1347
17.5°	1288	1288	1285	1283	1287	1289	1292	1295	1304	1319	1335
20°	1253	1254	1253	1254	1259	1262	1266	1273	1285	1306	1325
22.5°	1215	1217	1217	1221	1229	1234	1239	1249	1266	1293	1320
25°	1176	1175	1180	1187	1195	1202	1208	1223	1248	1284	1322
27.5°	1129	1131	1138	1148	1160	1169	1178	1199	1235	1283	1327
30°	1081	1084	1093	1107	1124	1136	1146	1179	1228	1283	1331
32.5°	1029	1034	1046	1064	1088	1102	1118	1162	1222	1281	1335
35°	976	982	998	1020	1048	1065	1090	1149	1214	1279	1340
37.5°	922	929	947	975	1011	1037	1067	1135	1208	1279	1347
40°	866	874	897	929	975	1009	1045	1121	1202	1280	1358
42.5°	809	818	846	884	944	984	1024	1109	1198	1285	1372
45°	752	764	795	841	916	958	1004	1098	1196	1294	1391
47.5°	695	709	745	800	887	937	985	1089	1198	1306	1416
50°	640	656	696	763	860	914	967	1083	1202	1324	1446
52.5°	584	605	649	730	836	893	952	1079	1210	1348	1485
55°	532	554	605	698	813	875	938	1078	1224	1377	1533
57.5°	479	506	562	667	789	857	927	1080	1241	1408	1582
60°	434	458	523	637	768	840	917	1082	1259	1444	1639
62.5°	386	412	489	608	747	825	907	1085	1278	1481	1697
65°	339	366	455	580	726	809	895	1085	1293	1515	1747
67.5°	294	323	421	550	702	789	880	1080	1302	1539	1786
70°	251	283	388	518	676	765	859	1069	1301	1548	1803
72.5°	208	245	352	486	648	738	834	1048	1287	1537	1792
75°	169	209	320	454	616	706	803	1016	1256	1503	1750
77.5°	133	177	286	419	580	669	764	975	1207	1443	1676
80°	99	148	254	384	541	628	720	923	1143	1362	1577
82.5°	69	121	223	349	501	584	672	861	1069	1268	1463
85°	42	97	192	315	460	538	621	796	988	1166	1338
87.5°	18	75	165	282	419	493	569	734	902	1060	1213
90°	1	56	141	251	380	449	520	668	823	963	1099
92.5°	0	48	127	232	353	417	483	619	759	884	1005
95°	1	40	115	211	326	387	448	575	701	816	927
97.5°	1	33	102	192	301	357	414	532	646	755	858
100°	1	26	90	174	275	327	381	492	599	701	798
102.5°	1	19	80	157	251	300	350	455	556	654	746
105°	1	13	70	141	229	275	322	421	517	611	701
107.5°	1	9	61	126	205	251	295	389	481	572	660
110°	1	8	53	113	186	228	270	359	447	534	620



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1	7	45	101	167	205	246	330	416	500	582
115°	1	7	37	90	151	185	223	302	384	465	545
117.5°	1	7	30	80	136	167	200	276	352	431	509
120°	1	6	24	70	123	151	182	251	321	395	470
122.5°	1	6	20	61	110	136	164	225	292	360	430
125°	1	5	17	51	97	122	147	202	264	327	391
127.5°	2	5	14	42	84	106	130	180	234	291	352
130°	2	5	12	32	71	91	112	158	208	257	310
132.5°	2	4	11	25	59	77	96	137	181	225	271
135°	2	4	9	20	47	63	81	117	156	197	236
137.5°	2	3	8	16	36	51	67	99	133	168	204
140°	2	3	7	13	27	38	53	81	111	142	173
142.5°	2	3	6	11	21	29	40	66	92	118	145
145°	2	3	5	9	16	22	29	51	74	97	120
147.5°	2	3	5	8	13	17	22	37	58	77	97
150°	2	3	4	7	11	13	16	26	42	59	76
152.5°	2	2	4	6	8	10	12	19	29	42	57
155°	2	2	3	5	7	8	9	13	19	27	38
157.5°	2	2	3	4	5	6	7	9	13	17	23
160°	2	2	3	4	4	5	5	6	8	10	13
162.5°	2	2	3	3	3	4	4	4	5	5	6
165°	2	2	2	3	2	3	2	3	3	2	2
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: 4LBLELD4-11-SYMF-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1376	1376	1376	1376	1376	1376	1376	1376	1376	1376	1376
2.5°	1384	1377	1374	1370	1367	1365	1362	1360	1357	1357	1358
5°	1382	1375	1373	1369	1367	1366	1364	1365	1365	1366	1365
7.5°	1378	1372	1370	1368	1366	1365	1364	1366	1366	1367	1367
10°	1371	1367	1367	1365	1364	1363	1361	1364	1364	1366	1365
12.5°	1363	1362	1363	1364	1364	1363	1362	1366	1368	1368	1369
15°	1354	1356	1361	1364	1366	1366	1368	1372	1375	1376	1376
17.5°	1347	1352	1361	1369	1373	1375	1380	1388	1393	1394	1394
20°	1342	1354	1370	1385	1390	1394	1404	1414	1421	1422	1422
22.5°	1346	1366	1388	1405	1412	1417	1428	1441	1449	1450	1450
25°	1356	1380	1405	1426	1434	1440	1452	1466	1474	1477	1476
27.5°	1365	1394	1423	1447	1456	1464	1479	1495	1505	1508	1506
30°	1373	1407	1440	1469	1481	1490	1508	1527	1540	1543	1540
32.5°	1381	1422	1461	1495	1507	1520	1543	1565	1578	1582	1580
35°	1392	1440	1486	1525	1541	1556	1583	1609	1625	1628	1625
37.5°	1407	1463	1514	1563	1580	1601	1633	1664	1683	1687	1683
40°	1426	1492	1552	1609	1632	1654	1693	1730	1751	1758	1755
42.5°	1451	1528	1598	1666	1692	1720	1766	1809	1833	1841	1833
45°	1482	1573	1654	1733	1763	1797	1852	1901	1929	1936	1929
47.5°	1523	1626	1720	1811	1847	1887	1952	2008	2038	2046	2039
50°	1567	1690	1798	1902	1947	1989	2065	2127	2159	2174	2161
52.5°	1622	1760	1887	2003	2057	2107	2191	2259	2298	2311	2293
55°	1688	1844	1986	2120	2174	2230	2323	2395	2436	2450	2437
57.5°	1761	1933	2090	2231	2294	2351	2455	2530	2566	2584	2568
60°	1837	2025	2195	2345	2414	2473	2579	2653	2691	2709	2694
62.5°	1911	2114	2293	2449	2515	2580	2686	2757	2796	2812	2798
65°	1975	2189	2373	2534	2602	2666	2766	2834	2875	2886	2876
67.5°	2023	2240	2426	2585	2651	2715	2810	2873	2913	2923	2914
70°	2045	2260	2444	2599	2664	2721	2811	2871	2909	2915	2908
72.5°	2031	2240	2418	2566	2628	2678	2761	2818	2854	2859	2854
75°	1979	2179	2347	2485	2543	2585	2664	2717	2753	2757	2751
77.5°	1891	2077	2231	2364	2412	2453	2528	2575	2604	2610	2603
80°	1773	1944	2082	2201	2247	2282	2355	2406	2422	2430	2420
82.5°	1638	1791	1914	2022	2063	2106	2153	2200	2223	2230	2222
85°	1493	1629	1738	1835	1871	1910	1951	1997	2017	2024	2016
87.5°	1348	1468	1564	1650	1683	1718	1767	1791	1818	1826	1817
90°	1218	1326	1412	1490	1521	1553	1591	1621	1646	1653	1645
92.5°	1113	1210	1289	1359	1386	1416	1453	1482	1504	1511	1503
95°	1026	1115	1189	1254	1280	1308	1349	1372	1392	1398	1392
97.5°	952	1036	1106	1169	1194	1220	1260	1283	1302	1307	1302
100°	887	969	1038	1098	1123	1148	1187	1210	1228	1234	1228
102.5°	833	912	980	1041	1065	1090	1127	1154	1168	1175	1169
105°	786	863	931	991	1016	1040	1078	1103	1119	1127	1120
107.5°	743	819	888	946	971	995	1034	1059	1074	1083	1075
110°	702	777	843	903	928	953	992	1017	1032	1040	1033



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	662	735	803	861	885	910	950	976	990	999	991
115°	622	694	760	816	840	866	905	932	947	954	946
117.5°	583	652	715	770	794	819	857	884	900	907	899
120°	543	609	671	721	746	769	808	834	850	857	849
122.5°	500	565	624	673	697	719	757	783	798	805	798
125°	456	517	574	623	643	664	701	726	742	748	742
127.5°	412	468	521	564	586	606	641	665	679	686	681
130°	368	421	469	508	527	546	578	600	614	620	615
132.5°	321	372	419	453	471	487	516	535	547	554	548
135°	279	321	365	400	418	432	458	474	485	491	485
137.5°	241	277	313	344	361	376	401	416	426	432	426
140°	206	237	269	294	309	321	344	357	366	371	365
142.5°	172	200	227	250	263	273	295	305	312	315	312
145°	143	166	189	210	220	228	250	261	267	270	267
147.5°	116	135	154	171	180	190	205	218	223	225	223
150°	91	108	123	137	144	151	164	177	182	185	182
152.5°	69	83	95	106	112	118	129	141	146	148	146
155°	50	60	71	79	84	88	96	104	112	112	112
157.5°	31	39	48	55	58	62	68	75	81	84	84
160°	16	21	27	32	35	38	42	48	52	55	53
162.5°	7	9	12	14	16	17	20	23	25	30	26
165°	2	2	3	4	4	4	5	6	7	11	8
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	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°	1376	1376	1376	1376	1376	1376	1376	1376	1376	1376	1376
2.5°	1360	1363	1367	1369	1372	1374	1379	1385	1380	1373	1374
5°	1365	1364	1367	1369	1371	1372	1377	1383	1377	1370	1370
7.5°	1367	1366	1367	1368	1369	1369	1374	1379	1373	1364	1362
10°	1364	1363	1364	1366	1366	1366	1369	1373	1366	1355	1351
12.5°	1366	1363	1363	1364	1364	1362	1363	1366	1357	1345	1339
15°	1373	1368	1366	1366	1364	1359	1357	1357	1347	1331	1323
17.5°	1390	1382	1376	1373	1369	1360	1353	1349	1336	1318	1305
20°	1416	1405	1396	1390	1385	1369	1355	1344	1326	1304	1287
22.5°	1442	1430	1417	1411	1404	1386	1367	1348	1321	1291	1268
25°	1467	1455	1440	1434	1425	1404	1380	1358	1323	1282	1249
27.5°	1496	1481	1465	1456	1446	1422	1395	1368	1329	1282	1236
30°	1529	1511	1490	1480	1468	1440	1407	1375	1333	1282	1229
32.5°	1567	1546	1521	1507	1493	1460	1421	1384	1336	1281	1223
35°	1611	1587	1557	1541	1524	1485	1439	1394	1341	1280	1215
37.5°	1666	1638	1602	1582	1562	1516	1463	1409	1349	1281	1209
40°	1732	1699	1657	1632	1608	1555	1492	1428	1360	1283	1203
42.5°	1810	1770	1723	1694	1666	1600	1528	1452	1375	1287	1200
45°	1903	1861	1801	1765	1734	1657	1574	1484	1397	1297	1199
47.5°	2010	1957	1892	1850	1813	1724	1628	1524	1422	1310	1201
50°	2130	2070	1995	1951	1905	1803	1692	1571	1454	1329	1206
52.5°	2262	2196	2115	2063	2012	1894	1764	1631	1491	1353	1215
55°	2399	2328	2238	2181	2124	1994	1849	1696	1540	1383	1230
57.5°	2532	2459	2360	2302	2238	2100	1940	1767	1593	1418	1247
60°	2655	2582	2482	2423	2353	2205	2033	1845	1648	1455	1267
62.5°	2759	2689	2589	2529	2457	2304	2122	1921	1708	1494	1286
65°	2836	2770	2673	2611	2542	2383	2197	1988	1758	1528	1303
67.5°	2875	2813	2719	2660	2592	2434	2248	2033	1796	1552	1314
70°	2871	2812	2724	2666	2601	2449	2266	2051	1813	1561	1312
72.5°	2819	2760	2681	2625	2563	2421	2241	2035	1800	1547	1296
75°	2716	2662	2582	2536	2480	2348	2176	1976	1756	1510	1263
77.5°	2568	2527	2449	2406	2351	2229	2067	1887	1679	1448	1212
80°	2387	2353	2277	2239	2185	2079	1939	1765	1577	1364	1146
82.5°	2189	2150	2090	2055	2004	1909	1776	1634	1459	1268	1069
85°	1984	1948	1893	1863	1818	1733	1614	1489	1334	1162	986
87.5°	1789	1754	1702	1675	1634	1558	1454	1344	1207	1060	898
90°	1620	1587	1538	1513	1476	1407	1313	1214	1093	958	819
92.5°	1481	1451	1405	1381	1348	1285	1200	1110	1001	884	755
95°	1371	1342	1301	1278	1247	1182	1107	1023	923	816	697
97.5°	1282	1258	1213	1191	1166	1100	1032	949	856	756	645
100°	1210	1183	1142	1121	1095	1033	964	886	796	701	598
102.5°	1154	1126	1088	1064	1039	976	908	832	746	654	555
105°	1104	1077	1039	1015	990	928	863	786	701	612	516
107.5°	1057	1033	995	971	946	884	819	743	660	573	480
110°	1017	991	951	928	901	842	777	703	620	535	446



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	977	949	909	886	859	800	736	663	582	500	414
115°	933	906	864	841	814	756	694	623	545	465	382
117.5°	886	859	817	795	769	712	653	584	508	431	350
120°	835	809	769	747	722	667	610	541	469	395	320
122.5°	783	758	719	697	673	621	565	498	429	360	291
125°	727	702	665	644	620	570	516	453	389	327	261
127.5°	662	642	606	585	563	519	467	410	351	291	232
130°	600	579	545	526	507	467	421	366	308	256	203
132.5°	535	516	487	471	454	418	371	317	268	223	176
135°	474	458	432	418	401	363	319	274	233	193	151
137.5°	417	401	377	362	344	310	274	237	199	165	128
140°	357	344	322	309	293	264	234	199	169	138	106
142.5°	306	295	273	261	247	223	195	168	141	114	87
145°	262	251	227	218	205	184	161	137	115	92	70
147.5°	219	206	185	177	167	149	131	112	93	73	54
150°	179	164	147	142	132	118	103	87	72	56	39
152.5°	141	128	114	109	101	92	79	66	54	39	27
155°	105	95	84	81	75	68	57	47	36	26	19
157.5°	74	66	58	56	52	46	37	29	23	17	13
160°	46	41	35	33	30	26	20	17	14	11	8
162.5°	22	19	17	16	14	12	11	9	8	7	6
165°	8	8	8	7	7	7	7	6	5	5	4
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



TEST NUMBER: P201253

CATALOG NUMBER: 4LBLED-LD4-11-SYMF-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1376	1376	1376	1376	1376	1376	1376	1376
2.5°	1375	1377	1377	1378	1381	1387	1395	1396
5°	1371	1372	1372	1372	1375	1380	1388	1389
7.5°	1362	1362	1362	1362	1365	1369	1376	1377
10°	1350	1349	1349	1348	1350	1353	1361	1360
12.5°	1335	1333	1332	1332	1331	1334	1339	1340
15°	1318	1314	1312	1310	1309	1309	1315	1314
17.5°	1298	1292	1289	1286	1282	1282	1286	1285
20°	1275	1267	1262	1258	1252	1250	1252	1251
22.5°	1252	1239	1234	1228	1219	1215	1214	1213
25°	1225	1209	1202	1196	1183	1178	1173	1171
27.5°	1201	1178	1169	1159	1144	1137	1129	1127
30°	1180	1146	1132	1122	1103	1092	1082	1080
32.5°	1164	1117	1098	1086	1060	1045	1032	1026
35°	1150	1090	1065	1046	1015	997	979	974
37.5°	1137	1067	1034	1008	973	947	927	919
40°	1124	1046	1006	973	927	897	872	862
42.5°	1112	1025	982	942	882	846	819	805
45°	1101	1006	959	915	838	796	763	750
47.5°	1093	988	936	888	797	745	711	694
50°	1087	971	914	861	761	696	658	638
52.5°	1084	956	894	837	728	649	604	589
55°	1085	944	877	815	697	604	554	531
57.5°	1087	933	860	793	666	560	504	480
60°	1091	924	845	772	637	522	458	435
62.5°	1095	916	830	752	609	487	412	386
65°	1096	904	814	732	581	452	365	340
67.5°	1092	889	794	709	552	418	321	295
70°	1080	869	771	683	520	385	279	251
72.5°	1058	843	744	654	489	350	241	207
75°	1027	811	712	621	456	317	206	168
77.5°	985	770	674	584	420	283	176	132
80°	931	727	632	544	385	252	147	98
82.5°	867	678	587	503	352	220	120	68
85°	801	625	540	460	317	190	97	40
87.5°	736	572	495	421	281	163	75	16
90°	672	521	448	379	250	138	56	0
92.5°	619	483	417	351	230	125	48	0
95°	572	447	384	323	209	113	40	0
97.5°	529	413	355	297	190	100	33	0
100°	488	379	325	273	172	89	25	0
102.5°	452	349	298	247	154	78	18	0
105°	417	320	273	224	138	68	11	0
107.5°	386	293	248	203	123	59	7	0
110°	356	268	224	183	110	51	6	0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	328	244	203	164	99	43	6	0
115°	299	221	183	148	88	35	5	0
117.5°	274	199	165	135	77	28	5	0
120°	249	180	150	121	67	21	5	0
122.5°	224	163	134	108	58	17	4	0
125°	201	145	119	94	48	15	4	0
127.5°	178	127	103	81	38	13	3	0
130°	155	109	88	68	29	11	3	0
132.5°	134	92	74	56	23	9	2	0
135°	113	77	61	44	18	8	2	0
137.5°	95	63	48	33	15	6	2	0
140°	78	50	36	25	12	5	1	0
142.5°	62	37	27	19	10	4	1	0
145°	48	27	20	15	9	3	1	0
147.5°	35	21	16	13	7	3	1	0
150°	25	16	13	10	5	2	1	0
152.5°	19	12	10	8	4	2	1	0
155°	14	9	8	6	3	2	1	0
157.5°	10	7	6	4	3	2	1	0
160°	6	5	4	3	2	1	1	0
162.5°	5	3	3	3	2	1	1	0
165°	3	2	2	2	1	1	1	0
167.5°	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0

(END OF REPORT)