

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: P201313

Luminaire Tested: **8LBLED-LD4-22-SYMW-UNV-L840-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28136)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8LBLEDD4-22-SYMW-UNV-L840-CD2-U
Description: 8 ft. Low Bay Linear, 22000 lm, Wht Sym lens, 4K
Light Source: (784) 4000K CCT, 80 CRI LEDS
2UT217098A8404C
Ballast/Driver: OSRAM
2x(OTi85W01920CC)

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22268.2 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 2.12 / 1.93
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 8' x H: 0.21')
CIE Type: Semi-Direct

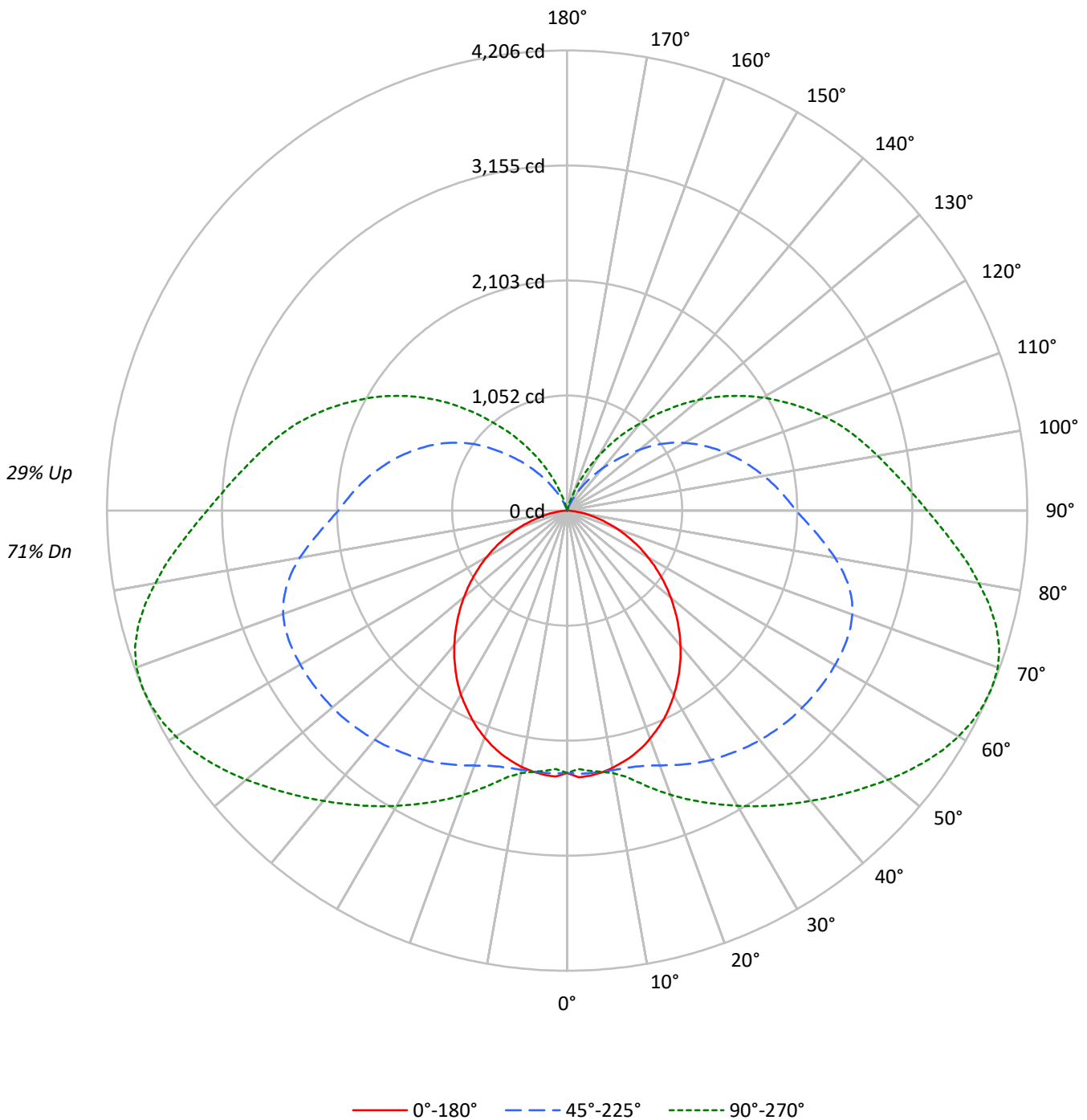
Input Watts (W): 176.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	49
2	86	76	67	60	81	71	64	57	63	57	51	55	50	46	48	44	40	36
3	77	65	55	48	72	61	52	45	54	47	41	47	41	36	41	36	32	28
4	70	56	46	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23
5	64	50	40	32	60	47	38	31	41	34	28	36	30	25	31	26	22	19
6	59	44	34	27	55	42	33	26	37	29	24	32	26	21	28	23	19	16
7	54	40	30	24	50	37	29	23	33	26	20	29	23	18	25	20	16	14
8	50	36	27	21	47	34	25	20	30	23	18	26	20	16	23	18	14	12
9	47	33	24	18	44	31	23	17	27	21	16	24	18	14	21	16	13	10
10	43	30	22	16	41	28	21	15	25	19	14	22	17	13	20	15	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	19320	19320	19320
5°	19624	17415	19560
10°	19447	16354	19382
15°	19201	16123	19118
20°	18839	16306	18737
25°	18427	16533	18287
30°	17873	16863	17818
35°	17272	17285	17194
40°	16572	17814	16510
45°	15836	18490	15747
50°	15027	19313	14954
55°	14140	20210	14058
60°	13168	21078	13076
65°	12026	21811	11918
70°	10641	22321	10509
75°	8853	22365	8513
80°	6793	21991	6308
85°	3848	21551	3421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	1.0
10°-20°	689.8	3.1
20°-30°	1167.6	5.2
30°-40°	1632.7	7.3
40°-50°	2057.1	9.2
50°-60°	2415.5	10.8
60°-70°	2641.2	11.9
70°-80°	2609.5	11.7
80°-90°	2292.4	10.3
90°-100°	1951.3	8.8
100°-110°	1627.3	7.3
110°-120°	1260.4	5.7
120°-130°	877.3	3.9
130°-140°	512.1	2.3
140°-150°	233.6	1.0
150°-160°	66.7	0.3
160°-170°	4.8	0.0
170°-180°	0.0	0.0
0°-30°	2086.4	9.4
0°-40°	3719.1	16.7
0°-60°	8191.7	36.8
0°-90°	15734.7	70.7
90°-120°	4839.0	21.7
90°-150°	6462.0	29.0
90°-180°	6533.0	29.3
0°-180°	22268.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2398	2398	2398	2398	2398	
5°	2432	2410	2388	2406	2424	231
15°	2318	2422	2578	2422	2308	653
25°	2098	2558	2940	2558	2082	964
35°	1788	2688	3290	2684	1780	1117
45°	1426	2778	3644	2774	1418	1099
55°	1044	2820	3998	2812	1038	934
65°	666	2818	4200	2808	660	660
75°	312	2666	4058	2654	300	335
85°	54	2280	3552	2274	48	68
90°	0	2092	3290	2092	0	2
95°	0	1960	3074	1962	0	1
105°	2	1686	2702	1692	0	2
115°	2	1394	2290	1398	2	2
125°	4	1066	1826	1066	2	3
135°	4	676	1310	676	2	3
145°	6	346	812	342	4	3
155°	6	98	360	92	4	3
165°	6	10	26	0	4	1
175°	0	0	0	0	0	0
180°	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°	2398	2398	2398	2398	2398	2398	2398	2398	2398	2398	2398
2.5°	2440	2438	2428	2412	2406	2402	2400	2394	2392	2396	2408
5°	2432	2428	2420	2406	2400	2398	2396	2390	2388	2394	2410
7.5°	2414	2412	2404	2390	2388	2384	2384	2380	2380	2390	2408
10°	2388	2386	2378	2368	2366	2366	2366	2366	2370	2386	2408
12.5°	2354	2354	2348	2340	2342	2342	2344	2348	2360	2384	2412
15°	2318	2316	2310	2308	2314	2316	2322	2332	2352	2386	2422
17.5°	2272	2272	2266	2268	2280	2286	2296	2314	2346	2392	2444
20°	2218	2220	2218	2224	2244	2256	2268	2298	2344	2408	2478
22.5°	2158	2162	2162	2178	2204	2222	2240	2282	2348	2436	2518
25°	2098	2098	2104	2126	2162	2184	2212	2272	2362	2466	2558
27.5°	2026	2032	2042	2072	2122	2152	2186	2272	2378	2496	2598
30°	1950	1956	1972	2014	2078	2116	2164	2272	2392	2520	2632
32.5°	1870	1880	1902	1956	2034	2086	2148	2270	2404	2540	2660
35°	1788	1798	1832	1896	1998	2058	2130	2264	2410	2558	2688
37.5°	1702	1720	1758	1838	1962	2034	2110	2258	2416	2572	2716
40°	1610	1628	1682	1778	1926	2002	2086	2250	2420	2586	2740
42.5°	1520	1544	1606	1722	1890	1974	2062	2238	2418	2596	2760
45°	1426	1454	1530	1668	1850	1940	2034	2222	2414	2602	2778
47.5°	1330	1364	1454	1614	1810	1904	2006	2206	2408	2606	2794
50°	1236	1276	1378	1560	1766	1866	1972	2188	2398	2608	2804
52.5°	1142	1186	1306	1506	1720	1826	1938	2166	2386	2606	2814
55°	1044	1092	1234	1448	1672	1782	1900	2138	2368	2598	2820
57.5°	950	1004	1166	1392	1622	1738	1864	2108	2348	2592	2826
60°	854	916	1096	1328	1570	1690	1820	2074	2324	2578	2826
62.5°	760	830	1028	1270	1518	1642	1776	2036	2298	2564	2826
65°	666	746	958	1206	1460	1590	1726	1996	2266	2544	2818
67.5°	574	666	886	1140	1400	1534	1674	1950	2230	2518	2802
70°	484	586	814	1070	1338	1470	1616	1900	2188	2484	2774
72.5°	394	510	738	1000	1272	1408	1556	1842	2136	2438	2730
75°	312	434	666	928	1204	1342	1490	1778	2074	2378	2666
77.5°	238	364	596	858	1132	1276	1422	1708	2002	2302	2582
80°	168	296	526	786	1060	1202	1346	1632	1926	2212	2486
82.5°	104	234	456	716	990	1130	1272	1556	1840	2118	2382
85°	54	176	390	650	922	1060	1200	1478	1752	2022	2280
87.5°	18	128	336	592	860	998	1134	1404	1670	1928	2180
90°	0	96	296	546	808	942	1078	1338	1598	1852	2092
92.5°	0	82	270	514	772	904	1036	1294	1544	1790	2024
95°	0	66	248	482	734	864	994	1246	1492	1732	1960
97.5°	0	52	224	452	696	822	948	1198	1438	1674	1894
100°	2	40	198	414	656	780	902	1146	1380	1608	1826
102.5°	2	28	174	382	614	734	854	1092	1322	1548	1756
105°	2	20	150	348	574	690	808	1040	1264	1482	1686
107.5°	2	14	128	316	534	644	758	984	1204	1416	1616
110°	2	10	108	282	490	600	710	928	1142	1348	1544



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2	8	88	250	446	554	660	872	1080	1280	1470
115°	2	8	70	220	402	506	608	816	1014	1210	1394
117.5°	2	6	54	190	362	458	556	754	950	1140	1318
120°	2	6	40	160	320	410	506	694	882	1066	1236
122.5°	4	6	30	134	282	364	456	634	810	988	1156
125°	4	4	24	108	242	318	400	572	732	902	1066
127.5°	4	4	18	82	202	272	346	506	662	814	970
130°	4	4	16	60	164	226	294	438	584	724	866
132.5°	4	4	12	44	130	186	246	374	508	644	772
135°	4	4	10	32	98	148	200	314	436	564	676
137.5°	4	4	10	24	72	112	158	262	370	484	586
140°	4	4	8	20	50	82	120	210	302	408	506
142.5°	4	4	6	16	36	58	86	162	244	336	422
145°	6	4	6	14	26	40	60	122	188	270	346
147.5°	4	4	4	10	20	28	40	84	142	210	274
150°	6	4	4	8	16	20	28	56	98	154	210
152.5°	6	4	4	8	12	16	20	36	64	104	150
155°	6	4	4	6	10	12	16	24	38	64	98
157.5°	6	6	6	6	8	10	12	18	22	36	56
160°	6	6	4	4	6	6	8	12	16	20	28
162.5°	6	6	6	4	4	4	6	8	10	14	18
165°	6	6	4	4	4	4	4	4	6	8	10
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2398	2398	2398	2398	2398	2398	2398	2398	2398	2398	2398
2.5°	2412	2402	2398	2390	2384	2380	2374	2370	2366	2364	2364
5°	2414	2404	2400	2394	2392	2388	2384	2388	2386	2388	2386
7.5°	2416	2408	2408	2406	2404	2404	2400	2404	2406	2408	2406
10°	2422	2420	2424	2426	2426	2426	2426	2430	2438	2438	2436
12.5°	2432	2438	2450	2460	2464	2464	2472	2480	2490	2492	2490
15°	2452	2470	2496	2518	2528	2534	2550	2564	2574	2578	2574
17.5°	2488	2522	2562	2594	2606	2614	2636	2650	2662	2672	2668
20°	2536	2582	2630	2668	2684	2694	2718	2744	2756	2764	2762
22.5°	2588	2642	2696	2742	2760	2772	2802	2826	2844	2854	2852
25°	2638	2700	2766	2816	2838	2852	2884	2912	2932	2940	2938
27.5°	2688	2760	2832	2890	2912	2930	2968	2998	3022	3028	3028
30°	2728	2812	2890	2956	2980	3004	3046	3086	3108	3116	3114
32.5°	2766	2860	2948	3022	3052	3076	3126	3170	3196	3204	3196
35°	2804	2908	3006	3086	3118	3148	3204	3254	3282	3290	3286
37.5°	2840	2956	3062	3150	3188	3220	3278	3338	3368	3376	3368
40°	2874	3000	3116	3212	3254	3292	3360	3420	3454	3464	3460
42.5°	2906	3044	3170	3276	3324	3364	3440	3506	3542	3554	3544
45°	2934	3088	3224	3338	3390	3436	3522	3594	3630	3644	3632
47.5°	2962	3128	3274	3400	3460	3508	3604	3680	3722	3734	3722
50°	2988	3168	3328	3464	3528	3582	3686	3768	3810	3828	3812
52.5°	3012	3206	3378	3524	3594	3654	3766	3854	3904	3916	3900
55°	3036	3242	3422	3580	3656	3720	3842	3934	3984	3998	3982
57.5°	3056	3274	3464	3634	3712	3786	3908	4004	4056	4072	4056
60°	3070	3300	3502	3678	3760	3836	3966	4062	4114	4130	4114
62.5°	3080	3320	3528	3712	3800	3878	4010	4104	4158	4174	4158
65°	3082	3328	3542	3734	3824	3902	4036	4130	4186	4200	4184
67.5°	3070	3320	3542	3738	3828	3908	4042	4136	4190	4206	4190
70°	3046	3296	3522	3722	3812	3892	4024	4120	4174	4190	4172
72.5°	3000	3254	3480	3684	3770	3848	3978	4072	4124	4142	4122
75°	2934	3188	3414	3610	3700	3772	3902	3994	4042	4058	4040
77.5°	2848	3104	3322	3516	3606	3672	3798	3888	3936	3950	3932
80°	2748	3002	3212	3404	3488	3550	3676	3762	3808	3822	3812
82.5°	2638	2886	3090	3278	3358	3420	3544	3628	3674	3694	3678
85°	2526	2764	2964	3146	3226	3292	3406	3490	3536	3552	3542
87.5°	2414	2644	2838	3014	3088	3156	3270	3354	3400	3416	3404
90°	2320	2540	2726	2900	2976	3038	3148	3228	3274	3290	3280
92.5°	2244	2454	2634	2794	2866	2932	3038	3116	3162	3176	3166
95°	2172	2376	2550	2706	2776	2840	2940	3016	3060	3074	3066
97.5°	2104	2300	2468	2620	2692	2750	2846	2918	2962	2974	2962
100°	2028	2226	2390	2540	2602	2660	2756	2828	2866	2882	2872
102.5°	1956	2146	2308	2456	2522	2580	2668	2738	2782	2792	2782
105°	1882	2066	2224	2370	2436	2492	2580	2648	2690	2702	2692
107.5°	1806	1984	2142	2280	2344	2396	2486	2552	2588	2610	2594
110°	1724	1900	2052	2186	2248	2298	2386	2452	2486	2506	2492



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	1648	1814	1960	2090	2148	2198	2284	2348	2380	2400	2386
115°	1568	1722	1866	1990	2048	2094	2180	2240	2272	2290	2278
117.5°	1482	1632	1768	1890	1944	1990	2072	2132	2162	2176	2164
120°	1398	1544	1672	1788	1842	1886	1966	2022	2050	2066	2054
122.5°	1310	1452	1568	1684	1734	1776	1848	1908	1934	1948	1940
125°	1216	1356	1468	1574	1622	1662	1732	1782	1812	1826	1818
127.5°	1118	1252	1366	1464	1510	1554	1612	1668	1688	1704	1696
130°	1008	1142	1248	1348	1392	1428	1492	1538	1564	1578	1572
132.5°	900	1024	1136	1226	1268	1306	1364	1408	1444	1446	1438
135°	796	904	1006	1102	1144	1182	1234	1274	1308	1310	1300
137.5°	696	796	884	974	1018	1058	1106	1144	1176	1182	1168
140°	600	692	772	852	894	932	984	1016	1042	1044	1036
142.5°	508	592	662	736	774	808	866	898	922	928	916
145°	422	496	562	626	658	690	748	786	806	812	800
147.5°	340	402	460	518	546	576	624	672	690	694	684
150°	264	316	368	416	440	466	508	552	576	580	572
152.5°	194	238	280	320	340	360	396	438	468	470	462
155°	132	168	202	232	250	266	294	326	358	360	354
157.5°	80	104	132	156	168	182	202	226	254	260	254
160°	40	54	70	86	96	106	116	136	152	166	158
162.5°	20	24	28	36	40	46	54	62	70	84	74
165°	12	14	16	16	18	18	18	18	18	26	18
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°	2398	2398	2398	2398	2398	2398	2398	2398	2398	2398	2398
2.5°	2370	2374	2382	2386	2390	2394	2402	2414	2404	2394	2396
5°	2386	2386	2388	2394	2394	2396	2404	2416	2406	2392	2392
7.5°	2406	2404	2406	2408	2406	2406	2410	2416	2404	2388	2384
10°	2434	2428	2426	2428	2426	2420	2422	2422	2406	2382	2372
12.5°	2484	2474	2466	2464	2458	2448	2442	2434	2410	2382	2362
15°	2566	2550	2534	2528	2518	2494	2474	2456	2422	2382	2354
17.5°	2658	2638	2616	2608	2594	2560	2526	2492	2444	2388	2348
20°	2746	2722	2696	2682	2668	2626	2586	2542	2480	2406	2346
22.5°	2834	2806	2770	2758	2740	2692	2644	2594	2520	2432	2350
25°	2920	2888	2854	2834	2814	2760	2702	2642	2558	2462	2364
27.5°	3006	2970	2928	2906	2886	2826	2760	2692	2598	2490	2382
30°	3090	3050	3000	2976	2952	2884	2808	2732	2630	2514	2394
32.5°	3174	3130	3074	3046	3018	2940	2856	2770	2658	2536	2404
35°	3256	3208	3146	3112	3082	2998	2904	2808	2684	2554	2410
37.5°	3340	3286	3218	3180	3146	3054	2950	2842	2712	2568	2416
40°	3424	3366	3290	3250	3208	3108	2996	2876	2736	2582	2418
42.5°	3510	3446	3362	3318	3274	3162	3038	2906	2756	2592	2416
45°	3596	3524	3434	3384	3336	3214	3080	2932	2774	2598	2412
47.5°	3682	3606	3508	3454	3396	3266	3120	2960	2790	2600	2408
50°	3770	3688	3582	3522	3462	3316	3160	2984	2800	2602	2398
52.5°	3856	3768	3654	3590	3520	3366	3198	3008	2808	2600	2384
55°	3934	3842	3722	3654	3576	3412	3232	3028	2812	2594	2366
57.5°	4006	3912	3786	3710	3634	3456	3264	3050	2816	2584	2346
60°	4062	3968	3836	3760	3678	3492	3290	3062	2816	2570	2320
62.5°	4104	4010	3878	3798	3712	3522	3310	3074	2816	2556	2294
65°	4130	4038	3902	3822	3734	3536	3320	3076	2808	2536	2262
67.5°	4134	4042	3906	3828	3738	3536	3314	3066	2792	2510	2226
70°	4116	4024	3890	3810	3722	3518	3292	3042	2764	2476	2184
72.5°	4070	3976	3846	3764	3678	3476	3246	2998	2718	2428	2134
75°	3990	3898	3770	3694	3606	3408	3176	2934	2654	2368	2072
77.5°	3884	3794	3668	3592	3510	3316	3088	2848	2576	2294	2000
80°	3758	3672	3548	3474	3394	3206	2982	2748	2480	2206	1920
82.5°	3624	3540	3420	3344	3268	3086	2872	2640	2378	2112	1834
85°	3494	3404	3284	3214	3138	2960	2758	2528	2274	2016	1750
87.5°	3358	3270	3152	3086	3014	2834	2642	2418	2176	1930	1668
90°	3234	3148	3034	2968	2900	2726	2538	2326	2092	1854	1600
92.5°	3120	3040	2932	2868	2802	2636	2456	2250	2024	1794	1546
95°	3022	2944	2844	2782	2714	2556	2380	2178	1962	1738	1496
97.5°	2924	2850	2752	2692	2628	2474	2304	2110	1898	1676	1442
100°	2834	2762	2662	2608	2546	2398	2230	2040	1832	1614	1384
102.5°	2746	2674	2578	2524	2464	2316	2152	1964	1762	1552	1328
105°	2656	2586	2490	2436	2376	2232	2072	1890	1692	1488	1270
107.5°	2558	2490	2398	2344	2288	2144	1990	1812	1622	1422	1210
110°	2458	2390	2306	2248	2194	2054	1904	1734	1548	1354	1148



TEST NUMBER: P201313

CATALOG NUMBER: 8LBLED-LD4-22-SYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	2354	2288	2206	2152	2096	1962	1818	1654	1474	1284	1084
115°	2248	2182	2100	2046	1996	1868	1728	1572	1398	1214	1020
117.5°	2132	2074	1996	1948	1896	1768	1638	1488	1322	1140	954
120°	2024	1968	1892	1840	1794	1672	1548	1402	1238	1068	886
122.5°	1910	1850	1780	1736	1686	1574	1454	1314	1154	986	812
125°	1790	1734	1666	1624	1578	1472	1358	1218	1066	904	736
127.5°	1668	1616	1550	1512	1468	1364	1254	1118	966	814	658
130°	1544	1492	1432	1392	1350	1252	1144	1010	866	724	582
132.5°	1414	1364	1304	1268	1230	1136	1026	896	768	640	508
135°	1280	1234	1180	1146	1108	1012	908	790	676	558	436
137.5°	1150	1108	1056	1022	980	890	798	692	588	478	364
140°	1022	984	934	896	860	776	692	596	502	402	300
142.5°	902	868	812	776	742	668	594	504	420	330	242
145°	784	754	692	660	632	566	492	418	342	264	188
147.5°	670	634	576	548	522	464	402	334	272	204	138
150°	560	516	466	442	420	370	316	260	206	148	96
152.5°	446	400	366	342	322	282	238	190	146	100	60
155°	330	298	266	254	236	202	166	128	92	60	34
157.5°	228	204	184	172	158	132	102	74	52	32	16
160°	138	122	108	98	88	70	50	34	22	10	6
162.5°	62	52	46	40	34	26	16	8	4	2	2
165°	12	8	6	4	2	0	0	0	0	0	0
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: P201313

CATALOG NUMBER: 8LBLED-LD4-22-SYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2398	2398	2398	2398	2398	2398	2398	2398
2.5°	2398	2400	2402	2402	2408	2418	2432	2434
5°	2392	2394	2394	2396	2402	2410	2422	2424
7.5°	2382	2382	2382	2382	2386	2394	2404	2406
10°	2368	2364	2362	2360	2362	2370	2378	2380
12.5°	2352	2342	2338	2336	2336	2338	2346	2346
15°	2334	2318	2312	2308	2300	2300	2308	2308
17.5°	2316	2294	2282	2274	2262	2260	2264	2260
20°	2300	2266	2250	2236	2218	2212	2212	2206
22.5°	2284	2238	2216	2196	2168	2158	2152	2148
25°	2274	2208	2180	2156	2118	2096	2090	2082
27.5°	2272	2184	2146	2116	2064	2038	2022	2012
30°	2272	2160	2110	2068	2004	1964	1948	1944
32.5°	2270	2142	2082	2028	1946	1894	1870	1864
35°	2264	2124	2054	1988	1888	1822	1788	1780
37.5°	2256	2102	2028	1952	1828	1748	1706	1694
40°	2248	2080	1996	1914	1768	1672	1618	1604
42.5°	2234	2056	1968	1878	1712	1596	1534	1512
45°	2220	2028	1934	1838	1656	1518	1440	1418
47.5°	2202	1998	1900	1794	1604	1442	1354	1326
50°	2182	1968	1862	1752	1548	1368	1260	1230
52.5°	2160	1934	1824	1708	1492	1298	1172	1134
55°	2132	1896	1780	1658	1434	1226	1082	1038
57.5°	2102	1858	1738	1612	1376	1158	994	944
60°	2066	1814	1686	1560	1316	1088	906	848
62.5°	2028	1770	1640	1506	1256	1020	820	754
65°	1988	1720	1588	1450	1192	948	736	660
67.5°	1940	1666	1530	1390	1126	876	654	568
70°	1892	1608	1466	1326	1058	804	576	478
72.5°	1834	1546	1402	1260	988	734	500	388
75°	1770	1482	1336	1192	916	660	424	300
77.5°	1702	1412	1268	1122	848	590	354	226
80°	1630	1338	1196	1050	776	520	286	156
82.5°	1550	1266	1124	978	708	452	224	96
85°	1474	1194	1056	912	642	384	168	48
87.5°	1400	1128	994	852	586	332	122	14
90°	1340	1074	942	804	542	294	92	0
92.5°	1292	1032	902	768	510	268	78	0
95°	1246	988	864	730	478	246	62	0
97.5°	1196	946	822	692	446	222	50	0
100°	1146	900	780	654	410	198	36	0
102.5°	1092	852	734	612	378	172	24	0
105°	1040	804	690	570	344	150	16	0
107.5°	984	756	644	530	310	126	10	0
110°	928	708	598	488	278	104	8	0



TEST NUMBER: P201313

CATALOG NUMBER: 8LBLED-LD4-22-SYMW-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	872	658	552	444	246	84	6	2
115°	812	606	504	400	214	66	6	2
117.5°	752	552	458	358	184	50	4	2
120°	690	504	408	318	156	36	4	2
122.5°	630	454	362	276	128	28	4	2
125°	568	396	316	238	102	22	4	2
127.5°	502	342	268	196	78	16	4	2
130°	434	288	222	160	56	12	4	2
132.5°	370	242	180	126	40	10	4	2
135°	312	196	142	94	28	8	2	2
137.5°	256	156	108	68	20	6	4	2
140°	206	118	78	48	14	4	4	2
142.5°	160	84	54	32	10	4	2	2
145°	118	56	36	20	8	4	4	4
147.5°	80	38	22	14	6	4	4	2
150°	52	24	14	10	4	4	4	2
152.5°	32	14	8	6	4	4	4	2
155°	16	8	6	4	4	4	4	4
157.5°	8	6	4	4	4	4	4	4
160°	4	4	2	2	4	4	4	4
162.5°	2	2	2	2	4	4	4	4
165°	0	2	2	2	4	4	4	4
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)