

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: P201265

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201265
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: 8LBLED-LD4-22-SYMF-UNV-L840-CD2-U
Description: 8 ft. Low Bay Linear, 22000 lm, Frst 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: 23555.8 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: 8' x H: 0.21')
CIE Type: Semi-Direct

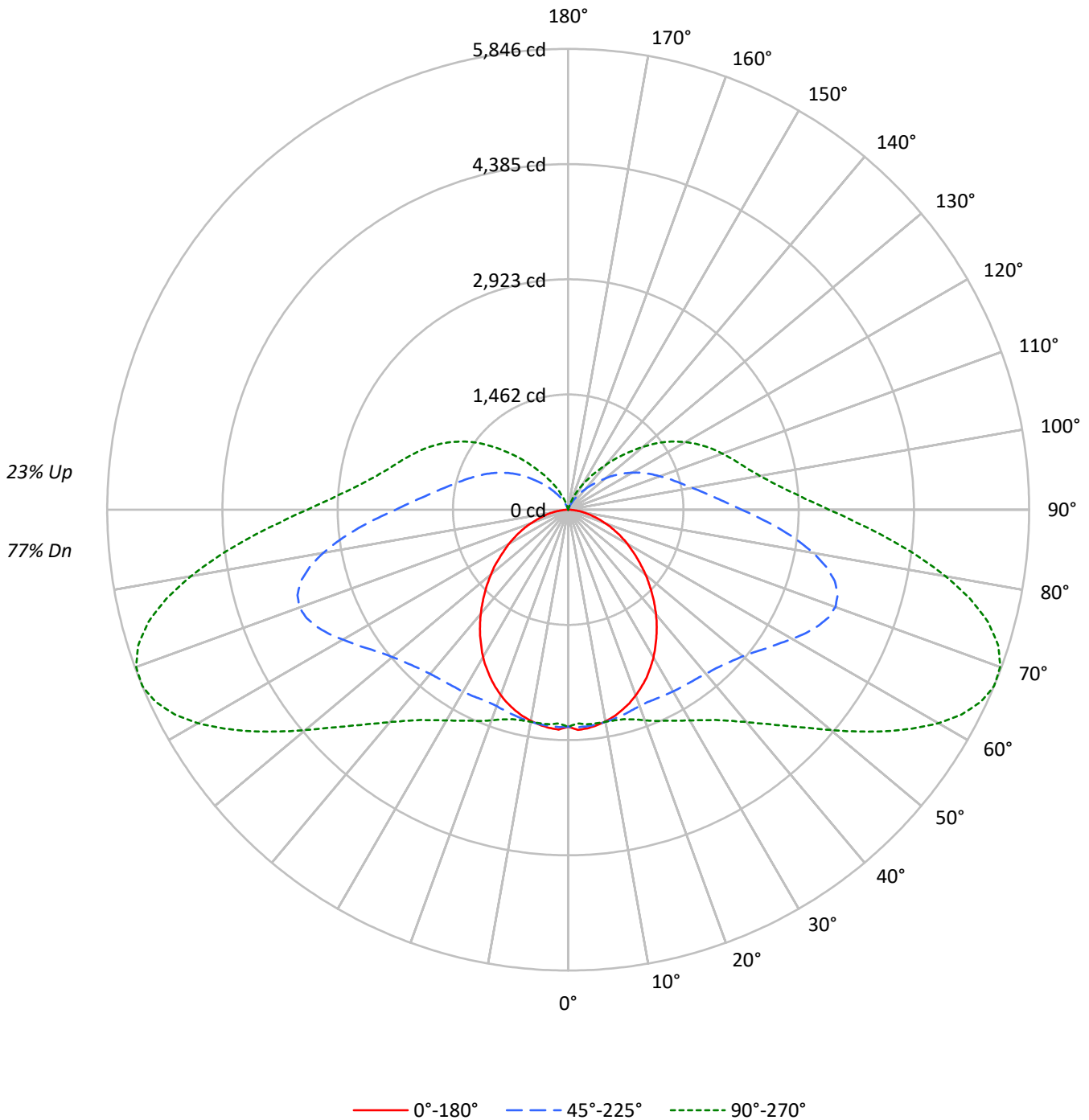
Input Watts (W): 176.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P201265

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

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°	22465	19924	22416
10°	22200	18326	22151
15°	21802	17211	21769
20°	21285	16778	21251
25°	20658	16612	20570
30°	19816	16700	19798
35°	18856	17106	18817
40°	17827	18082	17745
45°	16702	19647	16658
50°	15562	21937	15513
55°	14411	24770	14383
60°	13384	27652	13415
65°	12243	29975	12279
70°	11037	31058	11037
75°	9591	30390	9534
80°	8006	27965	7925
85°	5986	24560	5701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.3	1.1
10°-20°	760.0	3.2
20°-30°	1221.5	5.2
30°-40°	1654.0	7.0
40°-50°	2124.8	9.0
50°-60°	2733.7	11.6
60°-70°	3344.4	14.2
70°-80°	3381.2	14.4
80°-90°	2614.7	11.1
90°-100°	1816.6	7.7
100°-110°	1356.8	5.8
110°-120°	1016.9	4.3
120°-130°	684.8	2.9
130°-140°	375.5	1.6
140°-150°	160.1	0.7
150°-160°	45.8	0.2
160°-170°	4.0	0.0
170°-180°	0.0	0.0
0°-30°	2242.7	9.5
0°-40°	3896.7	16.5
0°-60°	8755.2	37.2
0°-90°	18095.4	76.8
90°-120°	4190.3	17.8
90°-150°	5410.7	23.0
90°-180°	5460.0	23.2
0°-180°	23555.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2752	2752	2752	2752	2752	
5°	2784	2758	2732	2754	2778	264
15°	2632	2694	2752	2694	2628	742
25°	2352	2644	2954	2646	2342	1080
35°	1952	2680	3256	2682	1948	1220
45°	1504	2782	3872	2794	1500	1160
55°	1064	3066	4900	3080	1062	953
65°	678	3494	5772	3516	680	673
75°	338	3500	5514	3512	336	361
85°	84	2676	4048	2668	80	92
90°	2	2198	3306	2186	0	5
95°	2	1854	2796	1846	0	1
105°	2	1402	2254	1402	0	2
115°	2	1090	1908	1090	0	2
125°	2	782	1496	778	0	2
135°	4	472	982	466	0	3
145°	4	240	540	230	0	3
155°	4	76	224	72	0	2
165°	4	4	22	10	0	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P201265

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2752	2752	2752	2752	2752	2752	2752	2752	2752	2752	2752
2.5°	2796	2794	2782	2764	2756	2754	2752	2744	2742	2746	2762
5°	2784	2782	2770	2752	2746	2744	2742	2736	2736	2742	2758
7.5°	2760	2758	2746	2732	2726	2724	2724	2720	2720	2730	2748
10°	2726	2724	2714	2702	2698	2698	2698	2696	2700	2712	2732
12.5°	2686	2682	2674	2664	2664	2664	2666	2666	2672	2692	2716
15°	2632	2634	2626	2618	2622	2624	2628	2632	2642	2666	2694
17.5°	2576	2576	2570	2566	2574	2578	2584	2590	2608	2638	2670
20°	2506	2508	2506	2508	2518	2524	2532	2546	2570	2612	2650
22.5°	2430	2434	2434	2442	2458	2468	2478	2498	2532	2586	2640
25°	2352	2350	2360	2374	2390	2404	2416	2446	2496	2568	2644
27.5°	2258	2262	2276	2296	2320	2338	2356	2398	2470	2566	2654
30°	2162	2168	2186	2214	2248	2272	2292	2358	2456	2566	2662
32.5°	2058	2068	2092	2128	2176	2204	2236	2324	2444	2562	2670
35°	1952	1964	1996	2040	2096	2130	2180	2298	2428	2558	2680
37.5°	1844	1858	1894	1950	2022	2074	2134	2270	2416	2558	2694
40°	1732	1748	1794	1858	1950	2018	2090	2242	2404	2560	2716
42.5°	1618	1636	1692	1768	1888	1968	2048	2218	2396	2570	2744
45°	1504	1528	1590	1682	1832	1916	2008	2196	2392	2588	2782
47.5°	1390	1418	1490	1600	1774	1874	1970	2178	2396	2612	2832
50°	1280	1312	1392	1526	1720	1828	1934	2166	2404	2648	2892
52.5°	1168	1210	1298	1460	1672	1786	1904	2158	2420	2696	2970
55°	1064	1108	1210	1396	1626	1750	1876	2156	2448	2754	3066
57.5°	958	1012	1124	1334	1578	1714	1854	2160	2482	2816	3164
60°	868	916	1046	1274	1536	1680	1834	2164	2518	2888	3278
62.5°	772	824	978	1216	1494	1650	1814	2170	2556	2962	3394
65°	678	732	910	1160	1452	1618	1790	2170	2586	3030	3494
67.5°	588	646	842	1100	1404	1578	1760	2160	2604	3078	3572
70°	502	566	776	1036	1352	1530	1718	2138	2602	3096	3606
72.5°	416	490	704	972	1296	1476	1668	2096	2574	3074	3584
75°	338	418	640	908	1232	1412	1606	2032	2512	3006	3500
77.5°	266	354	572	838	1160	1338	1528	1950	2414	2886	3352
80°	198	296	508	768	1082	1256	1440	1846	2286	2724	3154
82.5°	138	242	446	698	1002	1168	1344	1722	2138	2536	2926
85°	84	194	384	630	920	1076	1242	1592	1976	2332	2676
87.5°	36	150	330	564	838	986	1138	1468	1804	2120	2426
90°	2	112	282	502	760	898	1040	1336	1646	1926	2198
92.5°	0	96	254	464	706	834	966	1238	1518	1768	2010
95°	2	80	230	422	652	774	896	1150	1402	1632	1854
97.5°	2	66	204	384	602	714	828	1064	1292	1510	1716
100°	2	52	180	348	550	654	762	984	1198	1402	1596
102.5°	2	38	160	314	502	600	700	910	1112	1308	1492
105°	2	26	140	282	458	550	644	842	1034	1222	1402
107.5°	2	18	122	252	410	502	590	778	962	1144	1320
110°	2	16	106	226	372	456	540	718	894	1068	1240



TEST NUMBER: P201265

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2	14	90	202	334	410	492	660	832	1000	1164
115°	2	14	74	180	302	370	446	604	768	930	1090
117.5°	2	14	60	160	272	334	400	552	704	862	1018
120°	2	12	48	140	246	302	364	502	642	790	940
122.5°	2	12	40	122	220	272	328	450	584	720	860
125°	2	10	34	102	194	244	294	404	528	654	782
127.5°	4	10	28	84	168	212	260	360	468	582	704
130°	4	10	24	64	142	182	224	316	416	514	620
132.5°	4	8	22	50	118	154	192	274	362	450	542
135°	4	8	18	40	94	126	162	234	312	394	472
137.5°	4	6	16	32	72	102	134	198	266	336	408
140°	4	6	14	26	54	76	106	162	222	284	346
142.5°	4	6	12	22	42	58	80	132	184	236	290
145°	4	6	10	18	32	44	58	102	148	194	240
147.5°	4	6	10	16	26	34	44	74	116	154	194
150°	4	6	8	14	22	26	32	52	84	118	152
152.5°	4	4	8	12	16	20	24	38	58	84	114
155°	4	4	6	10	14	16	18	26	38	54	76
157.5°	4	4	6	8	10	12	14	18	26	34	46
160°	4	4	6	8	8	10	10	12	16	20	26
162.5°	4	4	6	6	6	8	8	8	10	10	12
165°	4	4	4	6	4	6	4	6	6	4	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: P201265

CATALOG NUMBER: 8LBLELD4-22-SYMF-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2752	2752	2752	2752	2752	2752	2752	2752	2752	2752	2752
2.5°	2768	2754	2748	2740	2734	2730	2724	2720	2714	2714	2716
5°	2764	2750	2746	2738	2734	2732	2728	2730	2730	2732	2730
7.5°	2756	2744	2740	2736	2732	2730	2728	2732	2732	2734	2734
10°	2742	2734	2734	2730	2728	2726	2722	2728	2728	2732	2730
12.5°	2726	2724	2726	2728	2728	2726	2724	2732	2736	2736	2738
15°	2708	2712	2722	2728	2732	2732	2736	2744	2750	2752	2752
17.5°	2694	2704	2722	2738	2746	2750	2760	2776	2786	2788	2788
20°	2684	2708	2740	2770	2780	2788	2808	2828	2842	2844	2844
22.5°	2692	2732	2776	2810	2824	2834	2856	2882	2898	2900	2900
25°	2712	2760	2810	2852	2868	2880	2904	2932	2948	2954	2952
27.5°	2730	2788	2846	2894	2912	2928	2958	2990	3010	3016	3012
30°	2746	2814	2880	2938	2962	2980	3016	3054	3080	3086	3080
32.5°	2762	2844	2922	2990	3014	3040	3086	3130	3156	3164	3160
35°	2784	2880	2972	3050	3082	3112	3166	3218	3250	3256	3250
37.5°	2814	2926	3028	3126	3160	3202	3266	3328	3366	3374	3366
40°	2852	2984	3104	3218	3264	3308	3386	3460	3502	3516	3510
42.5°	2902	3056	3196	3332	3384	3440	3532	3618	3666	3682	3666
45°	2964	3146	3308	3466	3526	3594	3704	3802	3858	3872	3858
47.5°	3046	3252	3440	3622	3694	3774	3904	4016	4076	4092	4078
50°	3134	3380	3596	3804	3894	3978	4130	4254	4318	4348	4322
52.5°	3244	3520	3774	4006	4114	4214	4382	4518	4596	4622	4586
55°	3376	3688	3972	4240	4348	4460	4646	4790	4872	4900	4874
57.5°	3522	3866	4180	4462	4588	4702	4910	5060	5132	5168	5136
60°	3674	4050	4390	4690	4828	4946	5158	5306	5382	5418	5388
62.5°	3822	4228	4586	4898	5030	5160	5372	5514	5592	5624	5596
65°	3950	4378	4746	5068	5204	5332	5532	5668	5750	5772	5752
67.5°	4046	4480	4852	5170	5302	5430	5620	5746	5826	5846	5828
70°	4090	4520	4888	5198	5328	5442	5622	5742	5818	5830	5816
72.5°	4062	4480	4836	5132	5256	5356	5522	5636	5708	5718	5708
75°	3958	4358	4694	4970	5086	5170	5328	5434	5506	5514	5502
77.5°	3782	4154	4462	4728	4824	4906	5056	5150	5208	5220	5206
80°	3546	3888	4164	4402	4494	4564	4710	4812	4844	4860	4840
82.5°	3276	3582	3828	4044	4126	4212	4306	4400	4446	4460	4444
85°	2986	3258	3476	3670	3742	3820	3902	3994	4034	4048	4032
87.5°	2696	2936	3128	3300	3366	3436	3534	3582	3636	3652	3634
90°	2436	2652	2824	2980	3042	3106	3182	3242	3292	3306	3290
92.5°	2226	2420	2578	2718	2772	2832	2906	2964	3008	3022	3006
95°	2052	2230	2378	2508	2560	2616	2698	2744	2784	2796	2784
97.5°	1904	2072	2212	2338	2388	2440	2520	2566	2604	2614	2604
100°	1774	1938	2076	2196	2246	2296	2374	2420	2456	2468	2456
102.5°	1666	1824	1960	2082	2130	2180	2254	2308	2336	2350	2338
105°	1572	1726	1862	1982	2032	2080	2156	2206	2238	2254	2240
107.5°	1486	1638	1776	1892	1942	1990	2068	2118	2148	2166	2150
110°	1404	1554	1686	1806	1856	1906	1984	2034	2064	2080	2066



TEST NUMBER: P201265

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	1324	1470	1606	1722	1770	1820	1900	1952	1980	1998	1982
115°	1244	1388	1520	1632	1680	1732	1810	1864	1894	1908	1892
117.5°	1166	1304	1430	1540	1588	1638	1714	1768	1800	1814	1798
120°	1086	1218	1342	1442	1492	1538	1616	1668	1700	1714	1698
122.5°	1000	1130	1248	1346	1394	1438	1514	1566	1596	1610	1596
125°	912	1034	1148	1246	1286	1328	1402	1452	1484	1496	1484
127.5°	824	936	1042	1128	1172	1212	1282	1330	1358	1372	1362
130°	736	842	938	1016	1054	1092	1156	1200	1228	1240	1230
132.5°	642	744	838	906	942	974	1032	1070	1094	1108	1096
135°	558	642	730	800	836	864	916	948	970	982	970
137.5°	482	554	626	688	722	752	802	832	852	864	852
140°	412	474	538	588	618	642	688	714	732	742	730
142.5°	344	400	454	500	526	546	590	610	624	630	624
145°	286	332	378	420	440	456	500	522	534	540	534
147.5°	232	270	308	342	360	380	410	436	446	450	446
150°	182	216	246	274	288	302	328	354	364	370	364
152.5°	138	166	190	212	224	236	258	282	292	296	292
155°	100	120	142	158	168	176	192	208	224	224	224
157.5°	62	78	96	110	116	124	136	150	162	168	168
160°	32	42	54	64	70	76	84	96	104	110	106
162.5°	14	18	24	28	32	34	40	46	50	60	52
165°	4	4	6	8	8	8	10	12	14	22	16
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: P201265

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

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2752	2752	2752	2752	2752	2752	2752	2752	2752	2752	2752
2.5°	2720	2726	2734	2738	2744	2748	2758	2770	2760	2746	2748
5°	2730	2728	2734	2738	2742	2744	2754	2766	2754	2740	2740
7.5°	2734	2732	2734	2736	2738	2738	2748	2758	2746	2728	2724
10°	2728	2726	2728	2732	2732	2732	2738	2746	2732	2710	2702
12.5°	2732	2726	2726	2728	2728	2724	2726	2732	2714	2690	2678
15°	2746	2736	2732	2732	2728	2718	2714	2714	2694	2662	2646
17.5°	2780	2764	2752	2746	2738	2720	2706	2698	2672	2636	2610
20°	2832	2810	2792	2780	2770	2738	2710	2688	2652	2608	2574
22.5°	2884	2860	2834	2822	2808	2772	2734	2696	2642	2582	2536
25°	2934	2910	2880	2868	2850	2808	2760	2716	2646	2564	2498
27.5°	2992	2962	2930	2912	2892	2844	2790	2736	2658	2564	2472
30°	3058	3022	2980	2960	2936	2880	2814	2750	2666	2564	2458
32.5°	3134	3092	3042	3014	2986	2920	2842	2768	2672	2562	2446
35°	3222	3174	3114	3082	3048	2970	2878	2788	2682	2560	2430
37.5°	3332	3276	3204	3164	3124	3032	2926	2818	2698	2562	2418
40°	3464	3398	3314	3264	3216	3110	2984	2856	2720	2566	2406
42.5°	3620	3540	3446	3388	3332	3200	3056	2904	2750	2574	2400
45°	3806	3722	3602	3530	3468	3314	3148	2968	2794	2594	2398
47.5°	4020	3914	3784	3700	3626	3448	3256	3048	2844	2620	2402
50°	4260	4140	3990	3902	3810	3606	3384	3142	2908	2658	2412
52.5°	4524	4392	4230	4126	4024	3788	3528	3262	2982	2706	2430
55°	4798	4656	4476	4362	4248	3988	3698	3392	3080	2766	2460
57.5°	5064	4918	4720	4604	4476	4200	3880	3534	3186	2836	2494
60°	5310	5164	4964	4846	4706	4410	4066	3690	3296	2910	2534
62.5°	5518	5378	5178	5058	4914	4608	4244	3842	3416	2988	2572
65°	5672	5540	5346	5222	5084	4766	4394	3976	3516	3056	2606
67.5°	5750	5626	5438	5320	5184	4868	4496	4066	3592	3104	2628
70°	5742	5624	5448	5332	5202	4898	4532	4102	3626	3122	2624
72.5°	5638	5520	5362	5250	5126	4842	4482	4070	3600	3094	2592
75°	5432	5324	5164	5072	4960	4696	4352	3952	3512	3020	2526
77.5°	5136	5054	4898	4812	4702	4458	4134	3774	3358	2896	2424
80°	4774	4706	4554	4478	4370	4158	3878	3530	3154	2728	2292
82.5°	4378	4300	4180	4110	4008	3818	3552	3268	2918	2536	2138
85°	3968	3896	3786	3726	3636	3466	3228	2978	2668	2324	1972
87.5°	3578	3508	3404	3350	3268	3116	2908	2688	2414	2120	1796
90°	3240	3174	3076	3026	2952	2814	2626	2428	2186	1916	1638
92.5°	2962	2902	2810	2762	2696	2570	2400	2220	2002	1768	1510
95°	2742	2684	2602	2556	2494	2364	2214	2046	1846	1632	1394
97.5°	2564	2516	2426	2382	2332	2200	2064	1898	1712	1512	1290
100°	2420	2366	2284	2242	2190	2066	1928	1772	1592	1402	1196
102.5°	2308	2252	2176	2128	2078	1952	1816	1664	1492	1308	1110
105°	2208	2154	2078	2030	1980	1856	1726	1572	1402	1224	1032
107.5°	2114	2066	1990	1942	1892	1768	1638	1486	1320	1146	960
110°	2034	1982	1902	1856	1802	1684	1554	1406	1240	1070	892



TEST NUMBER: P201265

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

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1954	1898	1818	1772	1718	1600	1472	1326	1164	1000	828
115°	1866	1812	1728	1682	1628	1512	1388	1246	1090	930	764
117.5°	1772	1718	1634	1590	1538	1424	1306	1168	1016	862	700
120°	1670	1618	1538	1494	1444	1334	1220	1082	938	790	640
122.5°	1566	1516	1438	1394	1346	1242	1130	996	858	720	582
125°	1454	1404	1330	1288	1240	1140	1032	906	778	654	522
127.5°	1324	1284	1212	1170	1126	1038	934	820	702	582	464
130°	1200	1158	1090	1052	1014	934	842	732	616	512	406
132.5°	1070	1032	974	942	908	836	742	634	536	446	352
135°	948	916	864	836	802	726	638	548	466	386	302
137.5°	834	802	754	724	688	620	548	474	398	330	256
140°	714	688	644	618	586	528	468	398	338	276	212
142.5°	612	590	546	522	494	446	390	336	282	228	174
145°	524	502	454	436	410	368	322	274	230	184	140
147.5°	438	412	370	354	334	298	262	224	186	146	108
150°	358	328	294	284	264	236	206	174	144	112	78
152.5°	282	256	228	218	202	184	158	132	108	78	54
155°	210	190	168	162	150	136	114	94	72	52	38
157.5°	148	132	116	112	104	92	74	58	46	34	26
160°	92	82	70	66	60	52	40	34	28	22	16
162.5°	44	38	34	32	28	24	22	18	16	14	12
165°	16	16	16	14	14	14	14	12	10	10	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



TEST NUMBER: P201265

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2752	2752	2752	2752	2752	2752	2752	2752
2.5°	2750	2754	2754	2756	2762	2774	2790	2792
5°	2742	2744	2744	2744	2750	2760	2776	2778
7.5°	2724	2724	2724	2724	2730	2738	2752	2754
10°	2700	2698	2698	2696	2700	2706	2722	2720
12.5°	2670	2666	2664	2664	2662	2668	2678	2680
15°	2636	2628	2624	2620	2618	2618	2630	2628
17.5°	2596	2584	2578	2572	2564	2564	2572	2570
20°	2550	2534	2524	2516	2504	2500	2504	2502
22.5°	2504	2478	2468	2456	2438	2430	2428	2426
25°	2450	2418	2404	2392	2366	2356	2346	2342
27.5°	2402	2356	2338	2318	2288	2274	2258	2254
30°	2360	2292	2264	2244	2206	2184	2164	2160
32.5°	2328	2234	2196	2172	2120	2090	2064	2052
35°	2300	2180	2130	2092	2030	1994	1958	1948
37.5°	2274	2134	2068	2016	1946	1894	1854	1838
40°	2248	2092	2012	1946	1854	1794	1744	1724
42.5°	2224	2050	1964	1884	1764	1692	1638	1610
45°	2202	2012	1918	1830	1676	1592	1526	1500
47.5°	2186	1976	1872	1776	1594	1490	1422	1388
50°	2174	1942	1828	1722	1522	1392	1316	1276
52.5°	2168	1912	1788	1674	1456	1298	1208	1178
55°	2170	1888	1754	1630	1394	1208	1108	1062
57.5°	2174	1866	1720	1586	1332	1120	1008	960
60°	2182	1848	1690	1544	1274	1044	916	870
62.5°	2190	1832	1660	1504	1218	974	824	772
65°	2192	1808	1628	1464	1162	904	730	680
67.5°	2184	1778	1588	1418	1104	836	642	590
70°	2160	1738	1542	1366	1040	770	558	502
72.5°	2116	1686	1488	1308	978	700	482	414
75°	2054	1622	1424	1242	912	634	412	336
77.5°	1970	1540	1348	1168	840	566	352	264
80°	1862	1454	1264	1088	770	504	294	196
82.5°	1734	1356	1174	1006	704	440	240	136
85°	1602	1250	1080	920	634	380	194	80
87.5°	1472	1144	990	842	562	326	150	32
90°	1344	1042	896	758	500	276	112	0
92.5°	1238	966	834	702	460	250	96	0
95°	1144	894	768	646	418	226	80	0
97.5°	1058	826	710	594	380	200	66	0
100°	976	758	650	546	344	178	50	0
102.5°	904	698	596	494	308	156	36	0
105°	834	640	546	448	276	136	22	0
107.5°	772	586	496	406	246	118	14	0
110°	712	536	448	366	220	102	12	0



TEST NUMBER: P201265

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

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
112.5°	656	488	406	328	198	86	12	0
115°	598	442	366	296	176	70	10	0
117.5°	548	398	330	270	154	56	10	0
120°	498	360	300	242	134	42	10	0
122.5°	448	326	268	216	116	34	8	0
125°	402	290	238	188	96	30	8	0
127.5°	356	254	206	162	76	26	6	0
130°	310	218	176	136	58	22	6	0
132.5°	268	184	148	112	46	18	4	0
135°	226	154	122	88	36	16	4	0
137.5°	190	126	96	66	30	12	4	0
140°	156	100	72	50	24	10	2	0
142.5°	124	74	54	38	20	8	2	0
145°	96	54	40	30	18	6	2	0
147.5°	70	42	32	26	14	6	2	0
150°	50	32	26	20	10	4	2	0
152.5°	38	24	20	16	8	4	2	0
155°	28	18	16	12	6	4	2	0
157.5°	20	14	12	8	6	4	2	0
160°	12	10	8	6	4	2	2	0
162.5°	10	6	6	6	4	2	2	0
165°	6	4	4	4	2	2	2	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)