

BW165 / CSS

Birchwood 1.65" Direct/Indirect Suspended Linear

TYPE:

JOB NAME:



Light Output	Nominal Delivered		System Wattage
	HE Lens	Direct	Indirect
3500K / 80 CRI	250 lm/ft	250 lm/ft	4 W/ft
3500K / 80 CRI	500 lm/ft	500 lm/ft	8.5 W/ft
3500K / 80 CRI	750 lm/ft	750 lm/ft	14 W/ft
3500K / 80 CRI	1000 lm/ft	1100 lm/ft	21 W/ft

Wattage includes driver and LED Module consumption. Delivered lumen output will vary depending on CCT, CRI and Optic selection.

FEATURES

- Low-profile Direct/Indirect with integral driver
- Performance optics with uniform pixel free illumination
- Features a hinged drop-down tray for easy install & servicing

LED LIGHT OUTPUT

- MIN and MAX from 250-1100lm/ft
- Custom lumen output anywhere between 250-1100lm/ft. Consult factory for details
- 80 CRI in 3000K, 3500K or 4000K
- 90 CRI in 2700K, 3000K, 3500K or 4000K
- 3 Step MacAdam (3 SDCM)
- Rated life of L70 > 60,000 hours based on LED testing per LM-80-08 and projected values using IESNA TM21-11

DIMMING

- 0-10V Dimming 1%
- eldoLED 0-10V 0.1% or 1%
- Lutron® LTA2W Hi-Lume 1% 2-Wire LED driver
- Lutron® LDE1 Hi-Lume EcoSystem 1%
- DALI Dimming 1%

LENS

- Impact resistant co-extruded lens with highly reflective internal cavity
- (HE) High efficiency lens provides optimal performance with even and continuous diffusion

PERFORMANCE OPTICS

(BW) Batwing, (AS) 15° Asymmetric or (E70) 70° Elliptical.

CONSTRUCTION

- Extruded 6063-T6 aluminum for a balance of weight, durability & strength
- Precision machined aluminum end caps with no visible hardware.

FIXTURE LENGTH

- Nominal Lengths: 2', 4', 6' and 8'
- Continuous run & mitered angles available. Consult factory for lead times.

FINISHES

Available finishes includes powder coated Matte White (MW), Flat Black (FB) and Matte Aluminum (MA). Consult factory for custom powder coat finishes.

ELECTRICAL SYSTEM

- 120/277V Power factor > .9, 50/60Hz
- 347V available with D1 0-10V only, consult factory
- 0-10V, Lutron and DALI Dimming available
- This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Additional surge protection recommended. Damage from power surge is not covered by warranty.

INTELLECT ENABLED (OPTIONAL CONTROLS)

Intellect-enabled fixtures integrate wireless dimming, occupancy / vacancy sensing, multi-zone daylight harvesting, manual control and scene control.

OPTIONS

- Standard white or black 5" canopy with 36" field adjustable aircraft cable
- Power cord is color matched to canopy finish. Consult factory for additional canopy options and cable lengths

CONTINUUM, ILLUMINATED END CAP

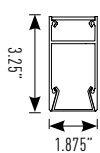
Designed to add a touch of light to our precision machined end caps. Three standard designs are offered with an ability to do custom shape. Consult factory for lead times.

LISTING / WARRANTY

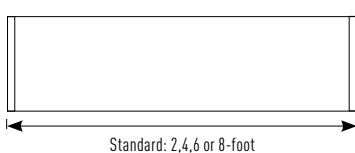
- 5-Year Limited Warranty
- UL Listed to US and Canadian standards
- DLC Certified⁷ (Exclusions listed in the notes)



DIMENSIONS



NOMINAL LENGTH



Fixture Weight (4ft): 8.6 lbs

Standard: 2, 4, 6 or 8-foot
(Consult factory for custom lengths)

Continuum Illuminated End Caps Options:



Standard



Slot



Notch



Arch

ORDERING CODE: (Example: BW165-DI-1000-500-309-HE-BW-8-MW-UNV-ED10V1-CSS-36W)

1	2	3	4	5	6	7	8	9	10	11	12	13
1: Model	2: Light Configuration	3: Light Output - Direct	4: Light Output - Indirect	5: CCT/CRI	6: Lens/Optics - Direct	7: Lens/Optics - Indirect	8: Nominal Length	9: Finish	10: Voltage	11: Dimming	12: CSS: Canopy Option	13: Options
BW165 (Birchwood 1.65" Cable Suspended)	-DI Direct / Indirect -D Direct Only	-250 (250 lm/ft) -500 (500 lm/ft) -750 (750 lm/ft) -1000 (1100 lm/ft) -0000 (Custom Value between 500-1100lm/ft)	-250 (250 lm/ft) -500 (500 lm/ft) -750 (750 lm/ft) -1100 (1100 lm/ft) -0000 (Custom Value between 500-1100lm/ft)	-279 (2700K / 90CRI) -30 (3000K / 80CRI) -309 (3000K / 90CRI) -35 (3500K / 80CRI) -359 (3500K / 90CRI) -40 (4000K / 80CRI) -409 (4000K / 90CRI)	-HE (High Efficiency) -BW (Batwing 115°) -AS (Asymmetric 15°) -E70 (Elliptical 70°) -FW (Frosted White)	-HE (High Efficiency) -BW' (Batwing 150°) -AS (Asymmetric 15°) -E70 (Elliptical 70°)	-2 (2ft) -4 (4ft) -6 (6ft) -8 (8ft) -CR ^{1,2} (Continuous Run - Note length in feet) -MTR-R' (Mitered Run, Shop Drawing Required)	-MW (Powder Coat, Matte White) -FB (Powder Coat, Flat Black) -MA (Powder Coat, Matte Aluminum) -CUP ³ (Custom, Consult Factory)	-UNV (Universal, 120V-277V) -120 (120V) -277 (277V) -347 ⁴ (347V)	-D1 (0-10V Dimming 1%) -ED10V1 (eldoLED 0-10V 1%) -ED10V01 (eldoLED 0-10V 0.1%) -HLA2 ⁵ (LTA2W Lutron H-Lume 2-Wire 1%) -HL (LDE1 Lutron Hi-Lume EcoSystem 1%) -DALI (DALI Dimming 1%)	-CSS-36W (5" RD White Canopy, 36" Aircraft Cable) -CSS-36B (5" RD Black Canopy, 36" Aircraft Cable) -CU (Custom, Consult Factory)	blank (Standard End Cap) -SEC ¹ (Slot End Cap) -NEC ¹ (Notch End Cap) -AEC ¹ (Arch End Cap) -CEC ¹ (Custom End Cap) -2CT (2 Circuit Switching) -EM ⁶ (Emergency Battery Pack)

NOTES:

- Consult factory for lead times
- Specify length in nominal feet
- Contact factory for custom finish
- 347V available with D1 dimming option only
- Available in 120V only
- EM is only available in lengths of 5 feet or more. Consult the factory for CR and MTR-R options.
- DLC Certified: Applicable for 80CRI, 120V, D1, and HE only. Excluding the 2-foot length and the 750 and 1000 lumen options.

SPECIFICATION SHEET | M-1209-22-P-1

BIRCHWOOD LIGHTING | 3340 E La Palma Ave, Anaheim, CA 92806 | tel 714 550-7118 | fax 714 550-7151 | www.birchwoodlighting.com

For Birchwood Lighting's limited product warranty, go to www.birchwoodlighting.com. For a printed copy of the warranty, you may call 800 961-5321.

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lighting | company

BW165 / CSS

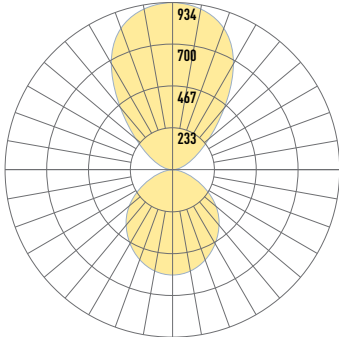
Birchwood 1.65" Direct/Indirect Suspended Linear

TYPE:

JOB NAME:

BW165-DI-500-500-35-HE-HE-4

PHOTOMETRIC CURVE:



Direct (HE): 456 lm/ft Indirect (HE): 464 lm/ft
 Total Lumens (4ft): 3679 lm Wattage: 31.4W
 Efficacy: 117 lm/W CCT/CRI: 3500K / 80CRI

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9144	9252	9411
55	8316	8490	8697
65	6729	7044	7458
75	4284	4639	5140
85	2372	2514	2247

CANDELA DISTRIBUTION:

	0	10	20	30	40	50	60	70	80	90
0	707	707	707	707	707	707	707	707	707	707
5	703	703	702	702	702	702	702	703	703	703
15	672	671	671	672	672	673	674	674	675	675
25	614	614	614	615	616	617	619	620	621	621
35	534	534	534	535	537	539	541	543	544	545
45	436	436	436	438	440	442	444	446	448	448
55	321	322	323	325	327	329	332	334	335	336
65	192	192	194	196	199	202	206	209	212	212
75	75	75	77	79	80	82	84	86	89	90
85	14	14	14	15	15	14	14	14	13	13
95	6	6	6	6	6	7	9	10	12	13
105	58	58	58	59	61	64	68	72	76	79
115	128	127	128	131	135	140	147	153	159	163
125	204	204	206	212	220	232	244	258	270	279
135	325	325	331	343	360	382	407	431	451	466
145	532	532	539	554	574	598	622	644	662	675
155	743	743	746	755	766	778	791	802	812	820
165	867	867	868	871	875	880	885	889	894	898
175	923	923	923	923	924	925	926	928	929	930
180	933	933	933	933	933	933	933	933	933	933

ZONAL LUMEN:

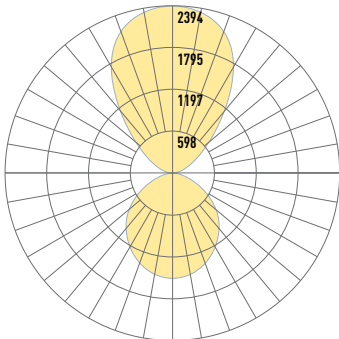
Zone	Lumens
0-10	67
10-20	190
20-30	285
30-40	337
40-50	341
50-60	294
60-70	201
70-80	90
80-90	19
90-100	17
100-110	76
110-120	147
120-130	221
130-140	311
140-150	383
150-160	362
160-170	250
170-180	88

CCT SCALING FACTOR

CCT	2700K	3000K	3500K	4000K
80 CRI	-	0.97	1.00	1.02
90 CRI	0.79	0.83	0.86	0.88

BW165-DI-1000-1100-35-HE-HE-4

PHOTOMETRIC CURVE:



Direct (HE): 1000 lm/ft Indirect (HE): 1100 lm/ft
 Total Lumens (4ft): 8638 lm Wattage: 84.4W
 Efficacy: 102 lm/W CCT/CRI: 3500K / 80CRI

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19455	19685	20024
55	17694	18063	18504
65	14317	14988	15868
75	9115	9869	10936
85	5047	5350	4782

CANDELA DISTRIBUTION:

	0	10	20	30	40	50	60	70	80	90
0	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504
5	1496	1495	1494	1494	1494	1494	1494	1495	1495	1495
15	1429	1428	1429	1429	1431	1432	1433	1435	1436	1436
25	1306	1306	1307	1309	1311	1313	1317	1319	1321	1322
35	1136	1135	1137	1139	1143	1147	1151	1155	1157	1159
45	927	927	929	932	936	940	945	950	953	954
55	684	684	687	691	695	701	706	711	714	715
65	408	409	412	417	423	431	438	445	450	452
75	159	160	163	167	170	174	179	184	189	191
85	30	30	31	31	32	31	30	29	28	28
95	15	15	14	15	17	19	22	26	30	34
105	150	148	148	151	157	165	174	184	194	202
115	328	327	329	336	346	360	376	392	407	418
125	523	523	529	543	565	594	627	661	692	715
135	833	833	848	878	923	980	1043	1105	1158	1196
145	1364	1364	1382	1420	1472	1533	1595	1651	1698	1731
155	1905	1905	1914	1935	1963	1996	2028	2057	2082	2102
165	2224	2223	2226	2233	2243	2256	2268	2280	2292	2302
175	2367	2367	2367	2368	2370	2373	2375	2378	2382	2385
180	2393	2393	2393	2393	2393	2393	2393	2393	2393	2393

ZONAL LUMEN:

Zone	Lumens
0-10	142
10-20	404
20-30	606
30-40	718
40-50	726
50-60	626
60-70	427
70-80	192
80-90	41
90-100	43
100-110	195
110-120	378
120-130	565
130-140	799
140-150	981
150-160	928
160-170	640
170-180	226

CCT SCALING FACTOR

CCT	2700K	3000K	3500K	4000K
80 CRI	-	0.97	1.00	1.02
90 CRI	0.79	0.83	0.86	0.88

BW165 / CSS

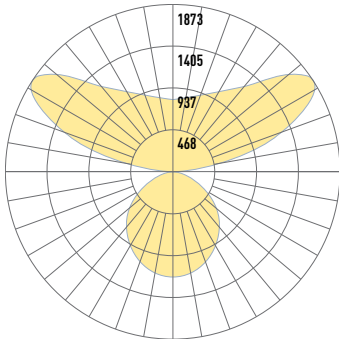
Birchwood 1.65" Direct/Indirect Suspended Linear

TYPE:

JOB NAME:

BW165-DI-1000-1100-35-HE-BW-4

PHOTOMETRIC CURVE:



Direct (HE): 970.5 lm/ft Indirect (BW): 1239.5 lm/ft
 Total Lumens (4ft): 8840 lm Wattage: 84.4W
 Efficacy: 105 lm/W CCT/CRI: 3500K / 80CRI

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19455	19685	20024
55	17694	18063	18504
65	14317	14988	15868
75	9115	9869	10936
85	5047	5350	4782

CANDELA DISTRIBUTION:

	0	10	20	30	40	50	60	70	80	90
0	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504
5	1496	1495	1494	1494	1494	1494	1494	1495	1495	1495
15	1429	1428	1429	1429	1431	1432	1433	1435	1436	1436
25	1306	1306	1307	1309	1311	1313	1317	1319	1321	1322
35	1136	1135	1137	1139	1143	1147	1151	1155	1157	1159
45	927	927	929	932	936	940	945	950	953	954
55	684	684	687	691	695	701	706	711	714	715
65	408	409	412	417	423	431	438	445	450	452
75	159	160	163	167	170	174	179	184	189	191
85	30	30	31	31	32	31	30	29	28	28
95	157	151	146	141	133	128	131	140	107	57
105	793	783	781	776	758	692	566	398	266	213
115	1467	1456	1436	1399	1263	1024	750	538	399	366
125	1823	1801	1713	1536	1281	1002	763	596	512	496
135	1504	1482	1378	1214	1033	872	744	658	607	604
145	1092	1083	1040	974	899	827	769	719	690	690
155	939	935	920	896	866	833	795	766	757	756
165	873	872	865	852	837	823	813	807	803	803
175	832	832	832	832	831	830	828	827	827	827
180	830	830	830	830	830	830	830	830	830	830

ZONAL LUMEN:

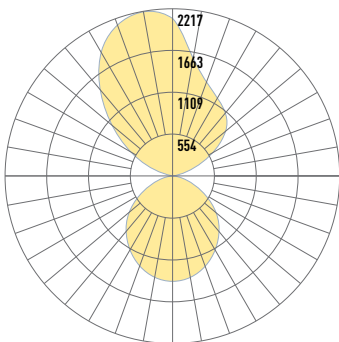
Zone	Lumens
0-10	142
10-20	404
20-30	606
30-40	718
40-50	726
50-60	626
60-70	427
70-80	192
80-90	41
90-100	199
100-110	683
110-120	1017
120-130	1011
130-140	776
140-150	561
150-160	398
160-170	239
170-180	79

CCT SCALING FACTOR

CCT	2700K	3000K	3500K	4000K
80 CRI	-	0.97	1.00	1.02
90 CRI	0.79	0.83	0.86	0.88

BW165-DI-1000-1100-35-HE-AS-4

PHOTOMETRIC CURVE:



Direct (HE): 970.5 lm/ft Indirect (AS): 1104 lm/ft
 Total Lumens (4ft): 8298 lm Wattage: 84.4W
 Efficacy: 98 lm/W CCT/CRI: 3500K / 80CRI

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21785	22043	22422
55	19813	20226	20720
65	16031	16783	17768
75	10206	11051	12246
85	5651	5991	5355

CANDELA DISTRIBUTION:

	0	10	20	30	40	50	60	70	80	90
0	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504
5	1496	1495	1494	1494	1494	1494	1494	1495	1495	1495
15	1429	1428	1429	1429	1431	1432	1433	1435	1436	1436
25	1306	1306	1307	1309	1311	1313	1317	1319	1321	1322
35	1136	1135	1137	1139	1143	1147	1151	1155	1157	1159
45	927	927	929	932	936	940	945	950	953	954
55	684	684	687	691	695	701	706	711	714	715
65	408	409	412	417	423	431	438	445	450	452
75	159	160	163	167	170	174	179	184	189	191
85	30	30	31	31	32	31	30	29	28	28
95	14	13	12	13	14	14	15	18	17	16
105	170	166	162	162	161	137	135	150	119	76
115	443	438	431	425	412	349	320	357	319	143
125	775	768	736	702	680	603	565	584	550	452
135	1030	1017	979	958	917	861	882	824	771	760
145	1161	1155	1138	1097	1070	1100	1178	1042	980	1146
155	1212	1213	1216	1229	1304	1392	1367	1227	1339	1585
165	1537	1538	1546	1559	1522	1450	1498	1632	1779	1912
175	1856	1847	1849	1864	1888	1919	1953	1988	2023	2058
180	2097	2097	2097	2097	2097	2097	2097	2097	2097	2097

ZONAL LUMEN:

Zone	Lumens
0-10	142
10-20	404
20-30	606
30-40	718
40-50	726
50-60	626
60-70	427
70-80	192
80-90	41
90-100	32
100-110	176
110-120	402
120-130	649
130-140	825
140-150	860
150-160	754
160-170	524
170-180	193

CCT SCALING FACTOR

CCT	2700K	3000K	3500K	4000K
80 CRI	-	0.97	1.00	1.02
90 CRI	0.79	0.83	0.86	0.88

SPECIFICATION SHEET L/M-1209-22 P-3

BIRCHWOOD LIGHTING | 3340 E La Palma Ave, Anaheim, CA 92806 | tel 714 550-7118 | fax 714 550-7151 | www.birchwoodlighting.com

For Birchwood Lighting's limited product warranty, go to www.birchwoodlighting.com. For a printed copy of the warranty, you may call 800 961-5321.

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BW165 / CSS

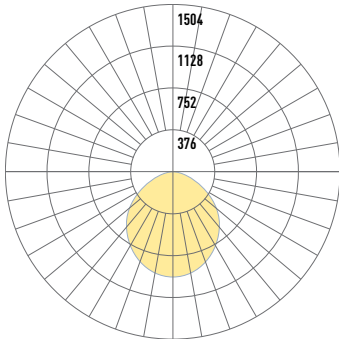
Birchwood 1.65" Direct/Indirect Suspended Linear

TYPE:

JOB NAME:

BW165-D-1000-35-HE-4

PHOTOMETRIC CURVE:



Direct (HE): 970.5 lm/ft

Wattage: 37.64

Total Lumens (4ft): 3882 lm

CCT/CRI: 3500K / 80CRI

Efficacy: 103 lm/W

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19455	19685	20024
55	17694	18063	18504
65	14317	14988	15868
75	9115	9869	10936
85	5047	5350	4782

CANDELA DISTRIBUTION:

	0	10	20	30	40	50	60	70	80	90
0	1504	1504	1504	1504	1504	1504	1504	1504	1504	1504
5	1496	1495	1494	1494	1494	1494	1494	1495	1495	1495
15	1429	1428	1429	1429	1431	1432	1433	1435	1436	1436
25	1306	1306	1307	1309	1311	1313	1317	1319	1321	1322
35	1136	1135	1137	1139	1143	1147	1151	1155	1157	1159
45	927	927	929	932	936	940	945	950	953	954
55	684	684	687	691	695	701	706	711	714	715
65	408	409	412	417	423	431	438	445	450	452
75	159	160	163	167	170	174	179	184	189	191
85	30	30	31	31	32	31	30	29	28	28
90	7	7	7	7	7	7	7	7	7	7

ZONAL LUMEN:

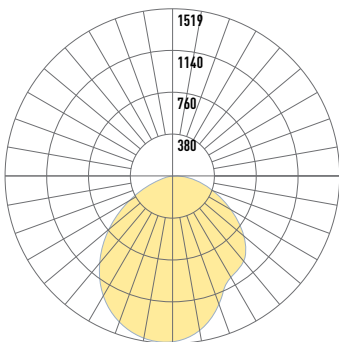
Zone	Lumens
0-10	142
10-20	404
20-30	606
30-40	718
40-50	726
50-60	626
60-70	427
70-80	192
80-90	41

CCT SCALING FACTOR

CCT	2700K	3000K	3500K	4000K
80 CRI	-	0.97	1.00	1.02
90 CRI	0.79	0.83	0.86	0.88

BW165-D-1000-35-AS-4

PHOTOMETRIC CURVE:



Direct (HE): 906 lm/ft

Wattage: 37.64

Total Lumens (4ft): 3623 lm

CCT/CRI: 3500K / 80CRI

Efficacy: 96 lm/W

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20995	18589	18779
55	19748	17185	12768
65	16198	14181	7400
75	10200	9297	5621
85	5529	5118	3260

CANDELA DISTRIBUTION:

	0	10	20	30	40	50	60	70	80	90
0	1508	1508	1508	1508	1508	1508	1508	1508	1508	1508
5	1473	1472	1473	1476	1479	1483	1488	1492	1497	1502
15	1316	1317	1322	1332	1348	1366	1387	1406	1424	1439
25	1083	1084	1095	1125	1170	1198	1201	1227	1280	1314
35	1025	1017	993	959	954	1001	1034	1014	1034	1119
45	893	889	879	857	800	782	818	816	798	799
55	682	679	669	653	623	564	564	589	557	441
65	412	411	408	401	383	339	335	359	313	188
75	159	159	160	159	153	136	138	144	117	88
85	29	29	29	30	29	25	24	23	19	17
90	7	7	7	7	7	7	7	7	7	7

ZONAL LUMEN:

Zone	Lumens
0-10	142
10-20	399
20-30	585
30-40	687
40-50	687
50-60	567
60-70	363
70-80	157
80-90	34

CCT SCALING FACTOR

CCT	2700K	3000K	3500K	4000K
80 CRI	-	0.97	1.00	1.02
90 CRI	0.79	0.83	0.86	0.88

BW165 / CSS

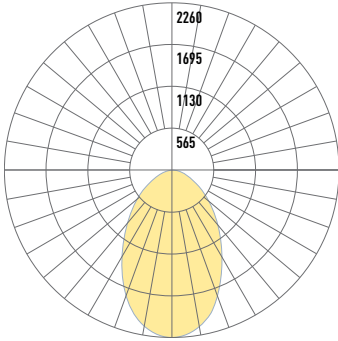
Birchwood 1.65" Direct/Indirect Suspended Linear

TYPE:

JOB NAME:

BW165-D-1000-35-E70-4

PHOTOMETRIC CURVE:



Direct (HE): 1000 lm/ft

Wattage: 37.64

Total Lumens (4ft): 3846 lm

CCT/CRI: 3500K / 80CRI

Efficacy: 102 lm/W

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18238	17183	20013
55	14288	13545	18511
65	10526	11283	18202
75	6659	8126	14571
85	4080	4984	6327

CANDELA DISTRIBUTION:

	0	10	20	30	40	50	60	70	80	90
0	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
5	2226	2226	2227	2228	2230	2232	2233	2235	2237	2238
15	1990	1992	1997	2004	2012	2020	2028	2034	2039	2042
25	1560	1563	1571	1585	1601	1619	1637	1652	1662	1669
35	1124	1123	1121	1122	1130	1147	1171	1194	1211	1220
45	776	768	747	727	723	739	772	811	839	852
55	493	484	463	449	454	481	528	582	623	639
65	268	265	259	259	272	302	349	403	446	463
75	104	104	105	110	119	135	159	189	216	227
85	21	22	22	23	25	27	29	31	33	33
90	7	7	7	7	7	7	7	7	7	7

ZONAL LUMEN:

Zone	Lumens
0-10	211
10-20	565
20-30	744
30-40	731
40-50	607
50-60	468
60-70	325
70-80	158
80-90	36

CCT SCALING FACTOR

CCT	2700K	3000K	3500K	4000K
80 CRI	-	0.97	1.00	1.02
90 CRI	0.79	0.83	0.86	0.88