

# BWA250 / CSS

BW 2.5" Acoustic Direct/Indirect Linear LED - Cable Suspended

TYPE:

JOB NAME:



Light Output	Nominal Delivered Lumens   Wattage		System Wattage
	HE Lenses	Direct	Indirect
3500K / 80 CRI	250 lm/ft at 3 W/ft	250 lm/ft at 2.5 W/ft	5.5 W/ft
3500K / 80 CRI	500 lm/ft at 6 W/ft	500 lm/ft at 4.8 W/ft	11 W/ft
3500K / 80 CRI	750 lm/ft at 9.5 W/ft	750 lm/ft at 7.0 W/ft	16.5 W/ft
3500K / 80 CRI	900 lm/ft at 11.8 W/ft	900 lm/ft at 9.6 W/ft	20.5 W/ft

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

## FEATURES

- NRC Rating of (0.95)
- Easy Field Servicing
- Integral Driver & Emergency Backup
- Pixel-Free Uniform illumination
- Available in both lit and non-lit configurations.

## LED LIGHT OUTPUT

- MIN and MAX from 250-900lm/ft
- 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 hrs 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® LTEA2W Hi-Lume 1% 2-Wire LED driver
- Lutron® LDE1 Hi-Lume EcoSystem 1%
- DALI Dimming 1%

## LENS AND OPTICS

- (HE) High efficiency diffused lens
- Optics with even illumination on direct and indirect light sources. (BW) 105° Batwing

## ELECTRICAL SYSTEM

- 120/277V Power factor >.9, 50/60Hz
- 347V available, consult factory
- Max. ambient temperature: 95°F (35°C).
- 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.

## CONSTRUCTION

- 1/2" 100% Recycable Polyester (PET) sound absorbing material
- Steel and Aluminum interal bracketing

## MOUNTING OPTION (CSS)

Cable Suspension System (CSS) field-adjustable 1/16" aircraft cable (Canopy cover & Power cable are white. Consult factory for other finishes.)

## FIXTURE LENGTH

Fixtures are available in 4', 6' or 8' nominal lengths.

## ACOUSTIC COLOR

Available finishes includes Greige (GRE), Pewter (PWE), Slate (SLA) or Cadet (CAD). Consult factory for custom finishes.

## CUSTOM & MODS

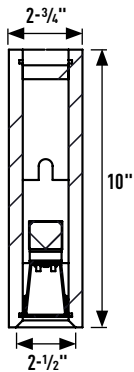
We proudly specialize in manufacturing custom and modified luminaires and have the ability to modify most of our standard fixtures. Please contact factory with any inquiries.

## LISTING / WARRANTY

- 5-Year Birchwood LED Limited Warranty
- UL Listed to US and Canadian standards for dry locations (pending)



## DIMENSIONS:



## ACOUSTIC COLOR:



ORDERING CODE: (Lit Example: BWA250-DI-750-750-359-HE-HE-8-GRE-120-D1-CSS-36W / Non-Lit Example: BWA250-NL-8-GRE-CSS-36W)

1: Model	2: Lit & Non-Lit Configuration	3: Light Output - Direct	4: Light Output - Indirect	5: CCT/CRI	6: Lens/Optics - Direct	7: Lens/Optics - Indirect
<b>BWA250</b> (Birchwood 2.5" Acoustic)	-DI (Direct / Indirect)	-250 (250 lm/ft)	-250 (250 lm/ft)	-279 (2700K / 90CRI)	-HE (High Efficiency)	-HE (High Efficiency)
	-D (Direct Only)	-500 (500 lm/ft)	-500 (500 lm/ft)	-30 (3000K / 80CRI)	-BW (Batwing 105°)	-BW (Batwing 105°)
	-I (Indirect Only)	-750 (750 lm/ft)	-750 (750 lm/ft)	-309 (3000K / 90CRI)		
	-NL <sup>1</sup> (Non-Lit; exclude options 3-7, 10-11 & 13)	-900 (900 lm/ft)	-900 (900 lm/ft)	-35 (3500K / 80CRI) -359 (3500K / 90CRI) -40 (4000K / 80CRI) -409 (4000K / 90CRI)		
8: Nominal Length	9: Acoustic Color	10: Voltage	11: Dimming	12: CSS: Canopy Option	13: Options	
-4 (4ft)	-GRE (Greige)	-UNV (120V-277V)	-D1 (0-10V Dimming 1%)	-CSS-36W (5" RD White Canopy, 36" Aircraft Cable)	-2CKT (2 Circuit Switching)	
-6 (6ft)	-PWE (Pewter)	-120 (120V)	-ED10V1 (eLdoLED 0-10V 1%)	-CSS-36B (5" RD Black Canopy, 36" Aircraft Cable)		
-8 (8ft)	-SLA (Slate)	-277 (277V)	-ED10V01 (eLdoLED 0-10V 0.1%)	-NC-36 (No Canopy, 36" Aircraft Cable w/ 1/4"-20 Side Exit Cable Gripper)	-EM <sup>2</sup> (Emergency Battery Pack)	
	-CAD (Cadet)	-347 (347V)	-HLA2 <sup>3</sup> (LTEA2W Lutron Hi-Lume 2-Wire 1%)			
	-CU <sup>2</sup> (Custom Color, Consult Factory)		-HL (LDE1 Lutron Hi-Lume EcoSystem 1%)	-CU (Custom, Consult Factory)		
			-DALI (DALI Dimming 1%)			

## NOTES:

1. For non-lit please exclude options 3-7, 10-11 & 13
2. Consult factory for options and lead times
3. 120V Only

SPECIFICATION SHEET / LM-0504-22 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

# BWA250 / CSS

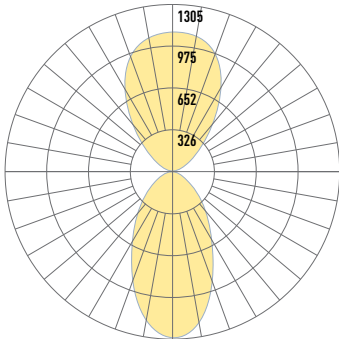
BW 2.5" Acoustic Direct/Indirect Linear LED - Cable Suspended

TYPE:

JOB NAME:

## BWA250-DI-500-500-35-HE-HE-4

PHOTOMETRIC CURVE:



Direct (HE): 502 lm/ft Indirect (HE): 502 lm/ft  
 Total Lumens (4ft): 4015 lm Wattage: 43.2 W  
 Efficacy: 93 lm/W CCT/CRI: 3500K / 80CRI

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9851	11987	17555
55	7063	8984	12458
65	4424	6304	9462
75	1153	2781	6733
85	353	403	2921

CANDELA DISTRIBUTION:

	0	23	45	68	90	113	135	158	180	203
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:

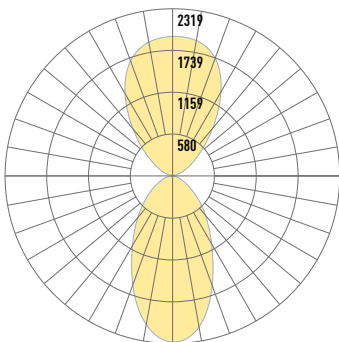
Zone	Lumens
0-10	121
10-20	320
20-30	416
30-40	406
40-50	325
50-60	224
60-70	130
70-80	46
80-90	6
90-100	8
100-110	54
110-120	140
120-130	235
130-140	343
140-150	430
150-160	417
160-170	291
170-180	103

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

## BWA250-DI-900-900-35-HE-HE-4

PHOTOMETRIC CURVE:



Direct (HE): 885 lm/ft Indirect (HE): 885 lm/ft  
 Total Lumens (4ft): 7076 lm Wattage: 81.6 W  
 Efficacy: 87 lm/W CCT/CRI: 3500K / 80CRI

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17536	21347	31385
55	12581	16009	22292
65	7883	11248	16934
75	2052	4952	12117
85	604	730	5414

CANDELA DISTRIBUTION:

	0	23	45	68	90	113	135	158	180	203
0	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319
5	2294	2292	2300	2310	2312	2303	2286	2268	2254	2245
15	1925	1949	2043	2157	2201	2148	2029	1915	1854	1859
25	1364	1408	1580	1832	1954	1832	1586	1397	1318	1339
35	898	935	1084	1362	1538	1379	1109	949	889	908
45	565	590	688	872	1011	896	719	609	564	586
55	329	348	418	519	583	537	442	357	326	343
65	152	166	217	295	326	310	231	170	146	158
75	24	32	58	110	143	123	64	30	19	23
85	2	3	3	5	22	6	3	2	2	2
95	4	4	6	14	24	10	4	3	3	3
105	53	62	90	132	149	122	74	46	38	45
115	194	212	259	315	330	303	234	183	166	182
125	379	404	474	550	569	536	441	365	339	363
135	657	697	804	905	935	886	762	642	598	636
145	1101	1143	1242	1325	1347	1306	1208	1090	1036	1078
155	1545	1561	1606	1639	1644	1627	1584	1533	1504	1518
165	1796	1793	1803	1809	1809	1803	1793	1779	1770	1769
175	1884	1876	1877	1877	1877	1876	1874	1872	1871	1870
180	1884	1884	1884	1884	1884	1884	1884	1884	1884	1884

ZONAL LUMEN:

Zone	Lumens
0-10	215
10-20	570
20-30	740
30-40	721
40-50	577
50-60	399
60-70	232
70-80	82
80-90	10
90-100	15
100-110	99
110-120	249
120-130	414
130-140	601
140-150	749
150-160	722
160-170	504
170-180	178

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

# BWA250 / CSS

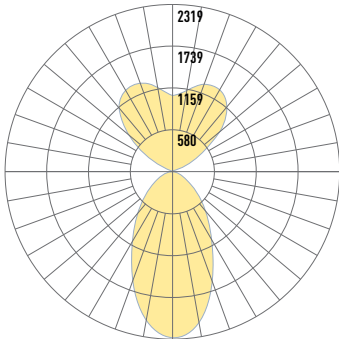
BW 2.5" Acoustic Direct/Indirect Linear LED - Cable Suspended

TYPE:

JOB NAME:

## BWA250-DI-900-900-35-HE-BW-4

PHOTOMETRIC CURVE:



Direct (HE): 1706.5 lm/ft Indirect (BW): 1706.5 lm/ft  
 Total Lumens (4ft): 6826 lm Wattage: 81.6 W  
 Efficacy: 84 lm/W CCT/CRI: 3500K / 80CRI

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17536	21347	31385
55	12581	16009	22292
65	7883	11248	16934
75	2052	4952	12117
85	604	730	5414

CANDELA DISTRIBUTION:

	0	23	45	68	90	113	135	158	180	203
0	2319	2319	2319	2319	2319	2319	2319	2319	2319	2319
5	2294	2292	2300	2310	2312	2303	2286	2268	2254	2245
15	1925	1949	2043	2157	2201	2148	2029	1915	1854	1859
25	1364	1408	1580	1832	1954	1832	1586	1397	1318	1339
35	898	935	1084	1362	1538	1379	1109	949	889	908
45	565	590	688	872	1011	896	719	609	564	586
55	329	348	418	519	583	537	442	357	326	343
65	152	166	217	295	326	310	231	170	146	158
75	24	32	58	110	143	123	64	30	19	23
85	2	3	3	5	22	6	3	2	2	2
95	5	5	5	12	21	9	5	5	5	5
105	71	83	114	147	145	125	84	50	44	59
115	268	311	381	351	318	330	331	254	228	287
125	638	693	697	541	469	538	650	621	595	671
135	1058	1049	941	699	597	718	927	987	997	1033
145	1272	1224	1076	828	721	865	1096	1211	1247	1238
155	1312	1256	1118	924	848	970	1159	1277	1318	1296
165	1217	1174	1086	991	963	1030	1139	1222	1255	1234
175	1067	1055	1043	1035	1036	1050	1071	1089	1098	1091
180	1048	1048	1048	1048	1048	1048	1048	1048	1048	1048

ZONAL LUMEN:

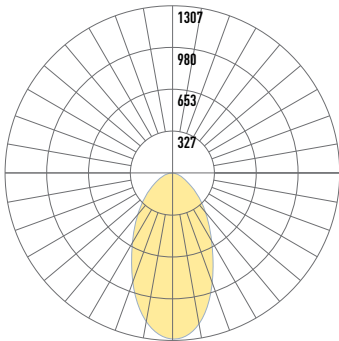
Zone	Lumens
0-10	215
10-20	570
20-30	740
30-40	721
40-50	577
50-60	399
60-70	232
70-80	82
80-90	10
90-100	17
100-110	120
110-120	327
120-130	550
130-140	678
140-150	654
150-160	516
160-170	315
170-180	102

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

## BWA250-D-500-35-HE-4

PHOTOMETRIC CURVE:



Direct (HE): 499.5 lm/ft Wattage: 24 W  
 Total Lumens (4ft): 1998 lm CCT/CRI: 3500K / 80CRI  
 Efficacy: 83 lm/W

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9864	12008	17582
55	7077	9001	12478
65	4426	6318	9478
75	1149	2777	6739
85	339	406	2940

CANDELA DISTRIBUTION:

	0	23	45	68	90	113	135	158	180	203
0	1307	1307	1307	1307	1307	1307	1307	1307	1307	1307
5	1292	1291	1296	1302	1303	1297	1287	1278	1270	1265
15	1084	1097	1151	1215	1239	1207	1140	1077	1042	1048
25	768	792	890	1031	1099	1026	889	783	740	755
35	505	526	610	766	863	769	619	532	499	513
45	318	332	387	492	566	497	400	341	317	332
55	185	196	235	293	326	297	246	200	183	195
65	85	93	122	166	183	171	128	94	82	90
75	14	18	33	62	79	66	34	16	10	14
85	1	1	2	3	12	3	2	1	1	1
90	1	1	1	1	1	1	1	1	1	1

ZONAL LUMEN:

Zone	Lumens
0-10	121
10-20	321
20-30	417
30-40	406
40-50	325
50-60	225
60-70	131
70-80	47
80-90	6

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

# BWA250 / CSS

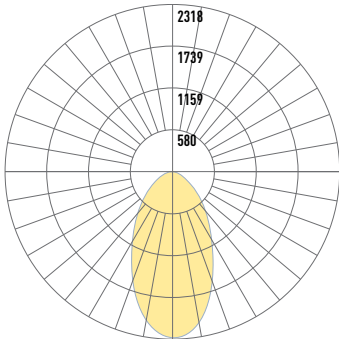
BW 2.5" Acoustic Direct/Indirect Linear LED - Cable Suspended

TYPE:

JOB NAME:

## BWA250-D-900-35-HE-4

PHOTOMETRIC CURVE:



Direct (HE): 886.75 lm/ft

Wattage: 46.9 W

Total Lumens (4ft): 3547 lm

CCT/CRI: 3500K / 80CRI

Efficacy: 76 lm/W

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17537	21348	31385
55	12580	16010	22291
65	7882	11250	16934
75	2048	4954	12119
85	602	722	5405

CANDELA DISTRIBUTION:

	0	23	45	68	90	113	135	158	180	203
0	2318	2318	2318	2318	2318	2318	2318	2318	2318	2318
5	2294	2292	2300	2310	2312	2303	2286	2268	2254	2244
15	1924	1949	2043	2157	2201	2148	2029	1915	1854	1859
25	1364	1408	1580	1832	1954	1832	1586	1397	1318	1339
35	898	935	1084	1362	1538	1379	1109	949	889	908
45	565	590	688	872	1011	896	718	609	564	586
55	329	348	418	519	583	537	442	357	326	343
65	152	166	217	295	326	310	231	170	146	158
75	24	32	58	110	143	123	64	30	19	23
85	2	3	3	5	21	6	3	2	2	2
90	2	2	2	2	2	2	2	2	2	2

ZONAL LUMEN:

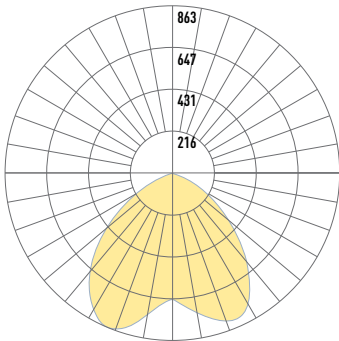
Zone	Lumens
0-10	215
10-20	570
20-30	740
30-40	721
40-50	577
50-60	399
60-70	232
70-80	82
80-90	10

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

## BWA250-D-500-35-BW-4

PHOTOMETRIC CURVE:



Direct (HE): 481.25 lm/ft

Wattage: 24 W

Total Lumens (4ft): 1925 lm

CCT/CRI: 3500K / 80CRI

Efficacy: 80 lm/W

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14882	16586	11189
55	10463	13742	10639
65	5890	9348	9757
75	1230	3890	7574
85	381	477	3617

CANDELA DISTRIBUTION:

	0	23	45	68	90	113	135	158	180	203
0	649	649	649	649	649	649	649	649	649	649
5	682	669	657	645	640	646	657	671	675	668
15	775	744	695	631	597	641	724	793	815	787
25	815	784	707	587	526	615	761	845	863	842
35	698	698	660	513	443	551	713	758	752	754
45	479	504	534	423	361	453	582	577	557	577
55	273	298	359	315	278	331	405	363	337	369
65	113	132	180	197	188	208	214	168	145	176
75	15	23	46	76	89	87	63	36	26	41
85	2	2	2	4	14	5	2	2	2	2
90	1	1	1	1	1	1	1	1	1	1

ZONAL LUMEN:

Zone	Lumens
0-10	64
10-20	200
20-30	327
30-40	397
40-50	384
50-60	301
60-70	180
70-80	64
80-90	8

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

# BWA250 / CSS

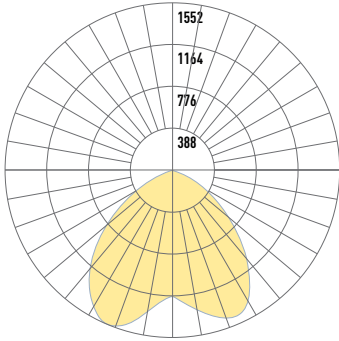
BW 2.5" Acoustic Direct/Indirect Linear LED - Cable Suspended

TYPE:

JOB NAME:

## BWA250-D-900-35-BW-4

PHOTOMETRIC CURVE:



Direct (BW): 866 lm/ft

Wattage: 46.9 W

Total Lumens (4ft): 3464 lm

CCT/CRI: 3500K / 80CRI

Efficacy: 74 lm/W

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	26774	29840	20131
55	18823	24724	19140
65	10597	16818	17554
75	2212	6998	13627
85	686	858	6507

CANDELA DISTRIBUTION:

	0	23	45	68	90	113	135	158	180	203
0	1168	1168	1168	1168	1168	1168	1168	1168	1168	1168
5	1228	1204	1182	1161	1152	1161	1183	1207	1214	1202
15	1395	1339	1251	1135	1075	1152	1303	1426	1466	1416
25	1466	1410	1272	1057	946	1106	1369	1520	1552	1515
35	1255	1255	1187	923	797	991	1282	1364	1352	1357
45	863	907	961	760	649	814	1046	1039	1003	1039
55	492	537	646	566	500	596	728	653	607	664
65	204	238	324	354	338	374	385	303	262	317
75	26	42	83	136	161	156	113	65	47	74
85	3	3	3	7	26	9	3	3	3	3
90	3	3	3	3	3	3	3	3	3	3

ZONAL LUMEN:

Zone	Lumens
0-10	115
10-20	360
20-30	589
30-40	715
40-50	692
50-60	542
60-70	323
70-80	115
80-90	14

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