

# Photometrics Pro

## Luminaire Photometric Report

**Filename:** IES\_CWP100H150KPG1-120V

**Manufacturer:** Ningbo Vance Lighting Co.,Ltd

**Luminaire:** CWP100/H1/50K/P/G1

**Lamp Output:** 1 lamp, rated Lumens/lamp: 13872.3

**Max Candela:** 5,266.4 at Horizontal: 0°, Vertical: 59°

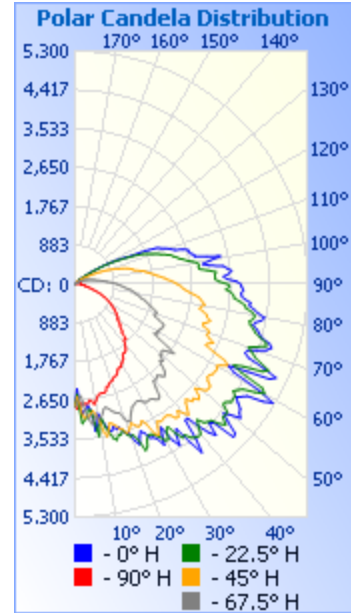
**Input Wattage:** 100.49

**Luminous Opening:** Point

**Test Lab:** Belling Test Laboratory Co., LTD

**Photometry :** Type C

**Nema Type:** 7 X 7



### Roadway Summary

Cutoff Classification:	NONCUTOFF	
Distribution:	TYPE IV, VERY SHORT	
Max Cd, 90 Deg Vert:	3,784.9	
Max Cd, 80 to <90 Deg:	4,391.1	
	Lumens	% Lamp
Downward Street Side:	9,784.9	70.5%
Downward House Side:	1,589.5	11.5%
Downward Total:	11,374.4	82%
Upward Street Side:	2,411.3	17.4%
Upward House Side:	84.5	0.6%
Upward Total:	2,495.9	18%
<b>Total Lumens:</b>	<b>13,870.3</b>	<b>100%</b>

### Flood Summary

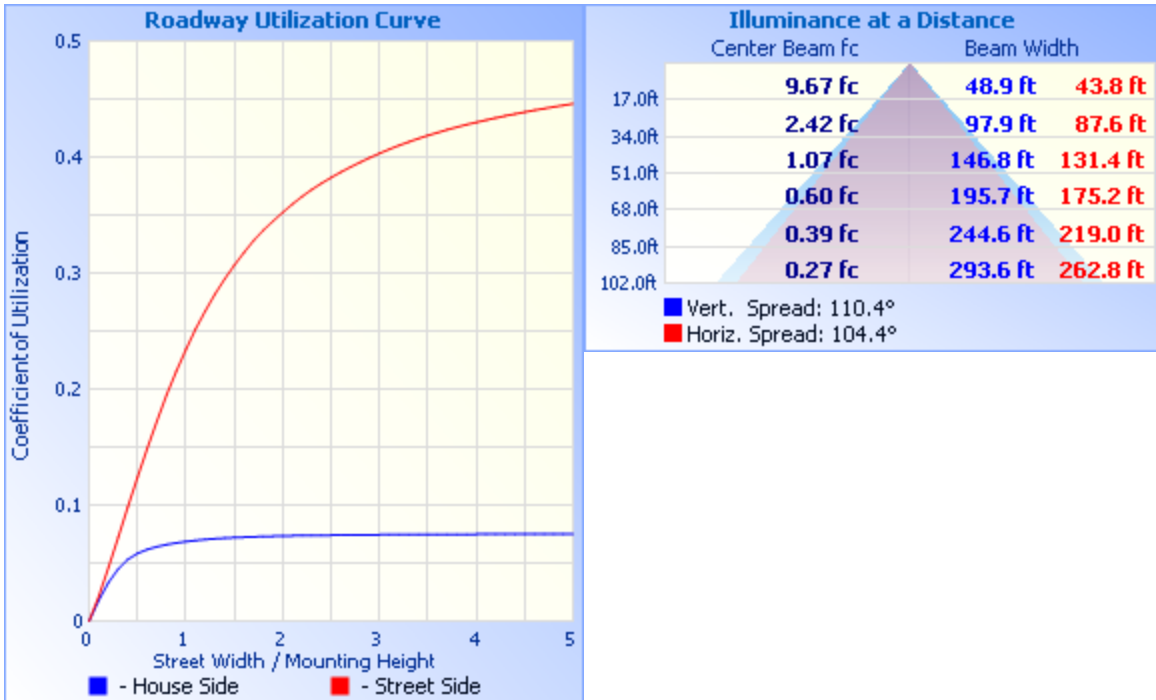
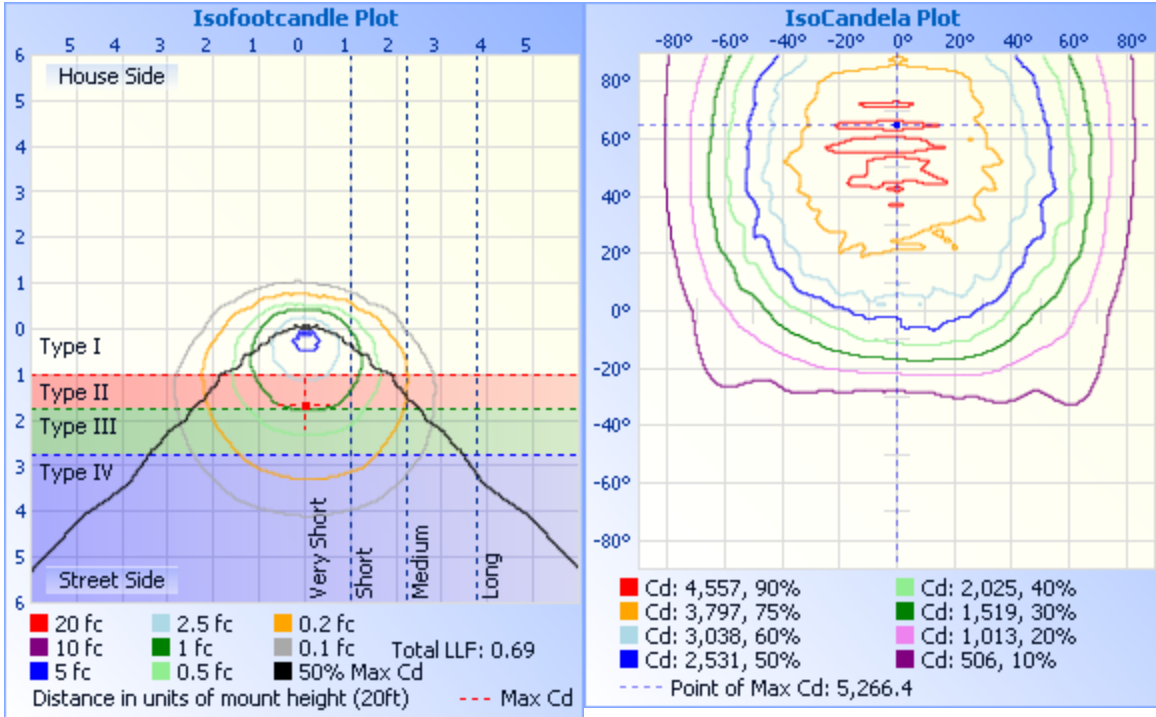
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.8%	13,156.3	163.7	153.8
Beam (50%):	67.4%	9,345.2	104.4	110.4
<b>Total:</b>	<b>100%</b>	<b>13,870.5</b>		

### Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	2,109.8	15.2%	15.2%
0-40	3,478.3	25.1%	25.1%
0-60	6,727.2	48.5%	48.5%
60-90	4,647.1	33.5%	33.5%
70-100	4,022.3	29%	29%
90-120	2,273.4	16.4%	16.4%
0-90	11,374.2	82%	82%
90-180	2,496.4	18%	18%
0-180	13,870.7	100%	100%

### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	262.0	1.9%	90-100	1,067.4	7.7%
10-20	742.5	5.4%	100-110	766.5	5.5%
20-30	1,105.3	8.0%	110-120	439.4	3.2%
30-40	1,368.4	9.9%	120-130	153.5	1.1%
40-50	1,561.0	11.3%	130-140	42.3	0.3%
50-60	1,687.9	12.2%	140-150	16.2	0.1%
60-70	1,692.1	12.2%	150-160	6.6	0%
70-80	1,585.9	11.4%	160-170	3.3	0%
80-90	1,369.0	9.9%	170-180	1.2	0%



**Coefficients Of Utilization - Zonal Cavity Method**

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	0	50	30	20	0	50	30	20	0	0
RCR: 0	1.15	1.15	1.15	1.15	1.10	1.10	1.10	0.82	1.01	1.01	1.01	0.82	.93	.93	.93	0.82	.86	.86	.86	0.82	0.82

1	1.00	.94	.88	.83	.95	.90	.84	.60	.82	.78	.74	.75	.71	.68	.68	.66	.63	.59
2	.90	.79	.71	.64	.85	.76	.68	.48	.69	.63	.57	.63	.58	.53	.57	.53	.50	.46
3	.81	.68	.59	.51	.76	.65	.57	.39	.60	.52	.46	.54	.48	.43	.50	.45	.40	.37
4	.73	.60	.50	.42	.69	.57	.48	.33	.52	.45	.39	.48	.41	.36	.44	.38	.34	.31
5	.67	.53	.43	.36	.64	.51	.42	.28	.46	.39	.33	.43	.36	.31	.39	.33	.29	.26
6	.62	.47	.38	.31	.59	.45	.36	.24	.42	.34	.28	.38	.32	.27	.35	.29	.25	.22
7	.57	.43	.33	.27	.54	.41	.32	.21	.38	.30	.25	.35	.28	.23	.32	.26	.22	.19
8	.53	.39	.30	.24	.50	.37	.29	.19	.34	.27	.22	.32	.25	.21	.29	.24	.19	.17
9	.49	.35	.27	.21	.47	.34	.26	.17	.32	.24	.19	.29	.23	.18	.27	.21	.17	.15
10	.46	.33	.24	.19	.44	.31	.24	.15	.29	.22	.18	.27	.21	.17	.25	.20	.16	.14

**Candela Table - Type C**

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794	2794
1	2389	2511	2578	2731	2851	3012	3004	2865	2820	2929	2994	2996	2727	2538	2437	2364	2389
2	2708	2844	2690	2600	2720	2927	2730	2564	2467	2595	2869	3170	2817	2494	2480	2597	2708
3	2998	3189	2968	2559	2741	2794	2435	2533	2509	2570	2636	3085	2841	2480	2861	2977	2998
4	2893	3108	3068	2784	2776	2702	2463	2506	2436	2621	2581	2958	2883	2605	3148	2996	2893
5	2858	3065	3005	2990	2733	2532	2572	2372	2448	2546	2711	2778	2854	2801	3113	2958	2858
6	2793	2889	3036	3114	2758	2448	2448	2477	2466	2671	2611	2591	2779	2891	3020	2833	2793
7	2902	2898	2967	3222	2670	2452	2424	2248	2220	2412	2575	2603	2834	3037	2978	2922	2902
8	3390	3194	2918	3112	2688	2444	2522	2141	2085	2255	2646	2703	2797	3128	2842	3171	3390
9	3261	3517	3011	3042	2781	2510	2343	2062	2125	2172	2475	2654	2736	3014	2879	3544	3261
10	3004	3254	3140	3141	2716	2495	2178	2132	2106	2257	2314	2649	2807	2939	3023	3292	3004
11	3150	3115	3444	3100	2632	2432	2072	2082	1941	2260	2208	2634	2793	2930	3375	3035	3150
12	3284	3348	3557	3018	2575	2354	2049	1908	1802	2063	2123	2585	2789	2942	3513	3196	3284
13	3420	3480	3406	2920	2561	2325	2116	1761	1837	1921	2191	2627	2852	2955	3304	3305	3420
14	3461	3623	3259	2890	2563	2352	2085	1761	1720	1934	2201	2682	2790	2960	3107	3377	3461
15	3370	3684	3307	2948	2570	2355	1964	1698	1625	1828	2092	2602	2666	2898	3123	3512	3370
16	3453	3588	3360	3001	2548	2329	1818	1557	1550	1657	1955	2456	2712	2850	3208	3422	3453
17	3411	3590	3446	3057	2448	2193	1730	1522	1422	1619	1922	2364	2735	2920	3375	3396	3411
18	3540	3507	3476	3096	2450	2049	1675	1401	1361	1478	1906	2288	2741	3052	3565	3333	3540
19	3607	3623	3597	3105	2390	1989	1640	1334	1240	1410	1849	2263	2724	3075	3686	3425	3607
20	3634	3702	3585	3263	2373	1927	1594	1224	1148	1320	1708	2231	2672	3106	3610	3556	3634
21	3840	3684	3488	3364	2361	1874	1507	1135	1026	1218	1596	2171	2662	3198	3381	3547	3840
22	3947	3813	3421	3366	2318	1859	1421	1039	946	1098	1560	2124	2679	3324	3266	3669	3947
23	3775	4126	3500	3249	2294	1832	1342	949	831	992	1482	2112	2573	3393	3255	3957	3775
24	3675	4060	3561	3161	2289	1763	1242	877	758	899	1392	2052	2589	3371	3342	3901	3675
25	3754	3890	3545	3088	2265	1733	1177	787	686	818	1325	2021	2635	3258	3432	3742	3754
26	3902	3826	3468	3062	2206	1690	1106	700	610	749	1247	2025	2517	3224	3423	3665	3902
27	3932	3846	3579	3036	2158	1649	1024	635	523	690	1171	1938	2499	3280	3440	3637	3932
28	3995	3904	3868	3016	2156	1592	977	574	456	618	1095	1832	2495	3068	3650	3641	3995
29	4200	3993	3943	3045	2165	1476	913	503	403	552	1021	1760	2441	2977	3883	3681	4200
30	3969	4120	3770	3100	2102	1421	833	442	355	489	943	1721	2427	3001	3865	3793	3969

31	3815	4139	3652	3142	2087	1393	770	384	328	439	883	1669	2361	3052	3769	3895	3815
32	4199	3932	3697	3148	2044	1343	717	339	300	400	820	1604	2337	3150	3638	3777	4199
33	4393	3881	3685	3135	2027	1275	648	308	287	364	767	1536	2317	3257	3561	3768	4393
34	4121	4114	3652	3161	1945	1216	601	287	277	338	700	1470	2263	3276	3482	3965	4121
35	4033	4284	3655	3212	1922	1161	554	271	268	320	657	1409	2233	3293	3484	4069	4033
36	4456	4254	3699	3246	1932	1094	498	260	255	306	603	1363	2132	3298	3507	4060	4456
37	4813	4374	3827	3204	1915	1042	464	249	245	299	558	1290	2077	3206	3558	4096	4813
38	4485	4444	3838	2995	1875	1003	426	239	243	285	508	1227	2083	3149	3711	4066	4485
39	3996	4474	3715	2841	1821	962	394	230	229	275	472	1182	2005	3134	3685	4041	3996
40	4003	4469	3841	2849	1770	905	365	222	220	266	446	1115	1963	2870	3659	4138	4003
41	4292	4288	3950	2837	1701	853	341	215	210	251	420	1024	1933	2877	3742	4081	4292
42	4554	4167	3825	2802	1689	793	324	209	205	251	396	987	1794	2852	3877	3932	4554
43	4719	4314	3707	2862	1702	746	307	202	193	238	373	947	1703	2830	3927	4156	4719
44	4405	4373	3650	2931	1540	713	291	194	187	231	356	860	1729	2823	3828	4181	4405
45	4477	4399	3786	2902	1524	680	282	187	183	223	347	815	1663	2881	3629	4158	4477
46	5029	4594	3750	2836	1458	620	275	182	174	215	336	780	1597	2884	3504	4388	5029
47	5003	4702	3864	2694	1392	583	265	175	169	211	316	717	1579	2826	3422	4646	5003
48	4697	4535	3807	2604	1390	537	256	167	158	200	311	678	1513	2668	3496	4601	4697
49	4493	4554	3624	2666	1346	511	244	160	152	195	295	629	1481	2583	3589	4548	4493
50	4651	4530	3728	2524	1275	471	234	154	150	183	289	596	1446	2652	3522	4398	4651
51	4857	4349	3854	2551	1244	444	224	149	142	182	279	563	1405	2596	3695	4266	4857
52	4763	4367	3870	2501	1248	419	213	141	135	176	267	534	1382	2565	3854	4319	4763
53	4721	4477	3865	2504	1189	401	205	133	127	165	264	502	1364	2619	3845	4474	4721
54	4600	4461	3747	2617	1171	381	197	127	123	156	254	491	1322	2638	3720	4463	4600
55	4485	4459	3689	2760	1145	365	190	120	113	146	242	470	1276	2682	3633	4320	4485
56	4591	4359	3706	2560	1106	353	180	111	103	139	226	462	1232	2640	3534	4154	4591
57	4692	4435	3760	2278	1063	348	171	103	100	131	220	462	1228	2539	3558	4106	4692
58	5060	4529	3761	2122	1055	340	163	97	94	123	205	441	1189	2376	3637	4210	5060
59	5266	4788	3786	2202	993	332	155	91	87	119	199	433	1159	2218	3694	4454	5266
60	4845	4994	3730	2159	970	324	148	86	80	109	196	428	1110	2186	3688	4630	4845
61	4150	4888	3812	2200	938	319	142	79	84	99	192	410	1071	2218	3714	4506	4150
62	3959	4312	3951	2191	900	315	134	73	74	94	174	406	1019	2243	3702	3982	3959
63	4358	4067	3843	2222	860	309	127	69	62	91	168	400	989	2298	3746	3742	4358
64	4943	4281	3518	2221	824	304	122	63	65	77	160	397	934	2358	3653	3921	4943
65	5063	4717	3294	2239	789	297	115	59	62	73	152	388	891	2401	3395	4356	5063
66	4722	4839	3319	2182	748	290	108	52	66	59	141	372	847	2348	3188	4498	4722
67	4305	4608	3435	2069	704	284	102	48	56	65	128	363	811	2219	3169	4329	4305
68	4184	4424	3315	1976	659	277	95	44	56	65	122	355	763	2165	3305	4115	4184
69	4216	4328	3213	1933	621	269	88	39	41	56	110	340	713	2030	3288	4056	4216
70	4411	4213	3256	1975	576	261	82	36	41	55	97	328	666	1993	3190	3980	4411
71	4622	4387	3214	1973	531	255	76	31	37	52	95	317	615	2056	3183	4034	4622
72	4719	4590	3076	1907	488	246	70	28	34	43	88	310	571	2088	3105	4234	4719
73	4642	4555	3056	1832	450	237	64	23	23	37	76	297	523	1998	3006	4302	4642

74	4437	4392	3150	1791	416	226	58	17	15	20	65	286	476	1904	3067	4235	4437
75	4357	4258	3199	1726	378	216	53	11	24	20	63	276	439	1820	3068	4111	4357
76	4287	4192	3105	1676	342	211	48	8	18	24	62	271	396	1739	2991	4064	4287
77	4176	4105	3082	1635	310	201	43	7	21	18	53	252	363	1731	2933	3993	4176
78	4206	4070	2986	1547	283	191	40	8	22	21	51	234	333	1715	2921	3945	4206
79	4340	4146	2892	1504	261	182	36	7	19	24	40	223	307	1690	2824	3970	4340
80	4391	4168	2927	1462	244	174	34	7	17	18	37	210	282	1611	2780	4048	4391
81	4230	4095	3000	1400	233	166	33	8	24	18	40	200	262	1533	2795	3974	4230
82	4124	3943	2946	1379	222	157	32	7	18	21	39	187	244	1504	2779	3956	4124
83	4013	3903	2889	1323	209	149	31	7	23	20	38	181	229	1447	2731	3839	4013
84	4031	3784	2837	1281	196	142	30	8	22	23	40	172	216	1393	2691	3792	4031
85	3882	3651	2731	1212	179	134	29	7	20	21	34	164	203	1364	2691	3744	3882
86	3811	3627	2619	1150	167	127	28	8	22	24	31	157	190	1300	2557	3602	3811
87	3799	3569	2530	1106	158	120	27	8	20	24	34	150	180	1227	2462	3476	3799
88	3851	3446	2457	1056	150	114	25	7	23	21	32	142	173	1174	2416	3489	3851
89	3806	3528	2413	1003	143	108	25	8	19	25	34	135	169	1127	2350	3428	3806
90	3785	3498	2344	961	139	102	24	8	22	29	34	127	166	1077	2386	3404	3785
91	3687	3299	2273	932	136	96	23	8	21	20	29	120	161	1022	2280	3401	3687
92	3466	3201	2202	857	131	91	23	8	24	23	33	120	157	981	2168	3207	3466
93	3392	3201	2104	811	125	87	22	8	22	24	32	110	152	926	2133	3120	3392
94	3532	3202	2046	749	122	84	21	8	16	25	29	102	148	862	2086	3114	3532
95	3591	3229	1967	719	118	79	20	8	20	21	30	103	142	815	2081	3037	3591
96	3484	3047	1884	674	115	75	20	8	10	24	32	93	138	760	1965	3039	3484
97	3417	2858	1823	623	111	71	19	8	25	25	15	89	134	717	1833	3065	3417
98	3088	2846	1763	592	107	67	18	8	21	25	28	81	130	674	1872	2838	3088
99	2948	2862	1684	554	105	64	18	7	20	21	31	80	126	621	1866	2634	2948
100	3124	2838	1636	513	104	61	17	9	14	18	25	78	123	580	1717	2722	3124
101	3382	2722	1595	484	102	57	17	8	19	24	14	68	121	542	1635	2879	3382
102	3061	2609	1492	462	101	53	15	7	17	21	23	65	119	513	1616	2604	3061
103	2800	2531	1406	436	100	49	15	8	24	23	24	66	119	473	1592	2456	2800
104	2798	2440	1366	413	99	46	15	8	26	21	27	63	118	439	1503	2428	2798
105	2717	2392	1346	388	99	43	15	8	26	22	23	59	117	411	1428	2378	2717
106	2709	2329	1293	367	99	41	14	8	22	19	23	56	118	389	1376	2348	2709
107	2693	2283	1240	345	97	37	13	7	23	20	24	49	118	364	1346	2261	2693
108	2571	2187	1158	326	95	35	12	8	24	22	25	41	115	340	1278	2172	2571
109	2405	2090	1090	303	92	33	12	8	23	22	18	36	113	317	1203	2069	2405
110	2340	2018	1026	286	89	30	12	8	19	23	19	40	110	293	1136	1993	2340
111	2275	1928	973	276	87	29	11	7	19	21	15	37	106	273	1083	1901	2275
112	2194	1845	911	261	83	27	11	7	21	20	18	40	102	256	995	1811	2194
113	2111	1762	844	239	80	25	10	7	22	21	21	39	97	237	918	1704	2111
114	2025	1694	788	227	77	24	11	7	25	19	19	35	93	219	844	1619	2025
115	1846	1582	713	209	74	22	9	7	19	22	19	32	88	202	783	1544	1846
116	1655	1470	651	192	71	21	9	6	25	22	21	29	83	181	724	1407	1655

117	1420	1344	593	175	67	20	9	7	18	18	18	31	78	163	653	1288	1420
118	1307	1239	528	157	64	19	9	6	24	20	18	25	74	147	579	1173	1307
119	1207	1134	481	138	60	18	9	7	23	25	20	34	69	130	531	1084	1207
120	1093	1035	436	121	55	17	9	7	20	22	15	15	64	116	478	977	1093
121	989	938	399	115	51	17	8	7	16	24	9	24	59	105	423	891	989
122	887	856	351	108	46	16	8	6	17	21	12	20	54	95	376	791	887
123	800	764	316	101	43	15	8	7	22	26	15	25	50	86	330	701	800
124	695	652	284	88	39	14	6	7	19	17	18	26	45	78	290	616	695
125	607	575	257	81	35	15	7	7	20	18	16	19	42	71	256	531	607
126	532	496	238	72	33	14	7	6	18	21	16	23	38	66	232	461	532
127	457	433	221	70	30	14	7	8	18	21	14	20	35	60	208	393	457
128	399	370	197	68	28	13	6	7	24	22	15	25	32	54	188	335	399
129	342	323	177	62	25	13	7	7	18	24	14	22	29	49	170	286	342
130	291	280	159	52	23	13	7	7	20	21	16	16	27	45	152	245	291
131	251	244	139	46	22	12	6	7	21	19	0	23	25	41	135	211	251
132	227	206	120	49	21	11	6	8	25	22	17	17	23	36	121	184	227
133	194	177	105	50	19	11	6	8	24	21	0	19	22	33	107	161	194
134	172	169	93	41	18	11	7	8	23	23	16	18	21	30	97	144	172
135	162	150	87	36	17	10	7	8	21	25	14	23	20	27	87	129	162
136	146	130	78	40	16	10	6	8	21	23	20	17	18	25	78	117	146
137	142	125	65	26	15	9	7	7	24	25	19	20	18	22	71	106	142
138	130	108	68	36	15	9	7	7	17	19	19	23	17	21	63	94	130
139	112	101	66	28	14	9	7	7	20	21	14	15	16	20	58	83	112
140	112	92	63	28	14	8	7	8	22	22	14	17	15	18	52	74	112
141	98	85	54	24	12	7	6	8	21	25	15	17	14	17	47	65	98
142	86	71	51	27	12	6	7	8	24	22	19	11	14	16	43	58	86
143	87	66	51	24	11	5	8	8	25	21	13	13	13	15	38	51	87
144	81	65	38	28	11	5	7	8	22	24	12	16	13	15	35	46	81
145	68	61	41	24	11	6	8	9	26	20	19	15	12	13	31	41	68
146	66	62	41	23	10	6	8	8	26	24	17	17	11	14	26	37	66
147	57	46	33	24	8	6	7	9	19	22	12	13	11	12	23	33	57
148	55	50	27	27	9	6	8	9	18	22	14	13	10	12	19	29	55
149	52	41	28	20	8	6	8	9	23	24	12	14	10	11	17	26	52
150	39	36	23	22	8	6	8	9	20	23	12	11	9	10	14	23	39
151	43	32	23	21	8	7	8	9	25	18	13	15	8	10	12	20	43
152	44	35	12	21	7	7	7	8	23	21	16	14	9	9	10	18	44
153	34	32	15	16	7	7	7	9	24	19	13	12	8	8	9	14	34
154	28	27	0	19	7	6	8	9	25	19	18	16	8	8	9	12	28
155	28	28	15	17	5	6	8	9	24	21	17	0	7	7	7	11	28
156	26	24	12	17	6	6	8	9	23	21	15	12	6	7	7	8	26
157	24	22	14	20	6	7	8	9	21	23	19	14	6	7	5	7	24
158	23	15	13	17	6	6	9	9	21	20	18	20	7	7	5	5	23
159	21	22	16	20	6	7	8	9	19	27	9	15	6	6	5	5	21

160	18	22	12	10	6	7	8	8	20	21	17	13	6	6	5	4	18
161	18	19	15	13	5	7	8	8	25	23	15	11	6	6	4	4	18
162	15	20	13	16	6	7	8	9	20	22	9	17	6	5	5	4	15
163	14	20	17	14	6	7	8	9	16	19	17	14	6	5	5	5	14
164	17	22	10	22	6	7	8	8	21	23	17	16	5	5	6	5	17
165	16	22	12	15	6	7	8	8	21	18	16	17	6	6	5	5	16
166	18	17	15	20	7	7	8	8	25	20	15	13	6	5	5	5	18
167	17	19	12	18	6	7	8	8	21	18	18	16	7	6	5	5	17
168	16	20	11	16	6	7	7	9	21	24	14	14	6	6	6	5	16
169	15	18	15	15	5	7	8	8	22	25	17	16	6	6	6	5	15
170	21	22	14	20	7	7	8	8	21	20	12	19	6	6	6	5	21
171	19	24	12	19	6	8	8	9	24	21	18	14	6	7	7	6	19
172	17	22	16	18	7	7	8	8	22	21	19	18	6	6	6	6	17
173	13	20	0	16	6	7	8	8	22	21	19	17	7	7	6	6	13
174	22	21	15	18	6	7	7	8	23	17	15	12	6	6	7	5	22
175	14	18	13	17	5	7	8	9	25	21	19	16	7	7	7	6	14
176	19	17	16	16	6	7	7	8	24	18	15	10	7	7	7	5	19
177	19	23	12	19	6	7	8	8	21	21	18	17	7	7	7	6	19
178	18	20	12	14	7	6	7	8	22	24	19	15	6	5	7	6	18
179	21	22	9	10	7	7	7	7	17	20	13	16	7	7	7	5	21
180	18	20	13	15	7	7	7	7	23	23	15	17	7	6	7	8	18

### Luminaire Report Summary

IESNA:LM-63-1995  
 [TEST]  
 [ISSUEDATE] 2019-4-23 15:13  
 [MANUFAC] Ningbo Vance Lighting Co.,Ltd  
 [LUMCAT]  
 [LUMINAIRE] CWP100/H1/50K/P/G1  
 [LAMPCAT]  
 [LAMP]  
 [TESTLAB] Belling Test Laboratory Co., LTD  
 [\_TESTINST] GPM-3000  
 [\_TESTDIST] 14.040 m [K=1.0000]  
 [\_TESTTEMPERATURE] 23.0 'C  
 [\_TESTHUMIDITY]  
 [\_TESTOPERATOR]  
 [BALLAST]  
 [BALLASTCAT]  
 FILE: CANDELA MULTIPLIER: 1.034  
 FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17  
 FILE: COORDINATE SYSTEM: TYPE C  
 FILE: UNIT OF MEASURE: METRIC  
 FILE: BALLAST FACTOR: 1

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 Reported data calculated from manufacturer's data file, based on IES recommended methods.

