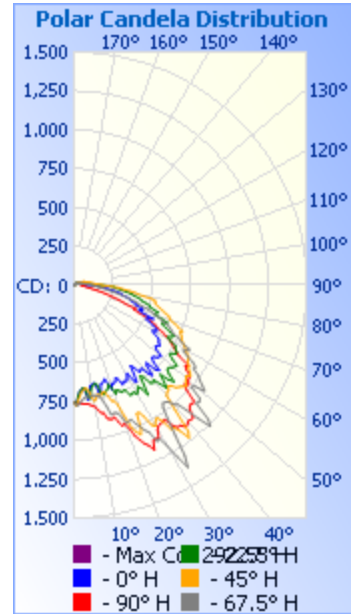


Photometrics Pro

Luminaire Photometric Report

Filename: IES_CWP28H150KPG1-120V
Manufacturer: Ningbo Vance Lighting Co.,Ltd
Luminaire: CWP28/H1/50K/P/G1
Lamp Output: 1 lamp, rated Lumens/lamp: 3758.8
Max Candela: 1,437.1 at Horizontal: 292.5Å°, Vertical: 46Å°
Input Wattage: 28.84
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 III, VERY SHORT	
Max Cd, 90 Deg Vert:	266.4	
Max Cd, 80 to <90 Deg:	530.4	
	Lumens	% Lamp
Downward Street Side:	2,141.0	57%
Downward House Side:	1,434.8	38.2%
Downward Total:	3,575.8	95.1%
Upward Street Side:	129.4	3.4%
Upward House Side:	54.0	1.4%
Upward Total:	183.4	4.9%
Total Lumens:	3,759.2	100%

Flood Summary

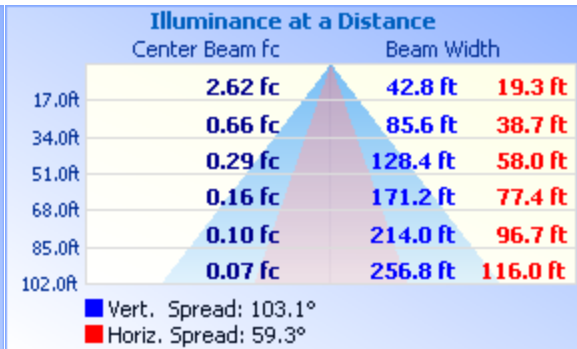
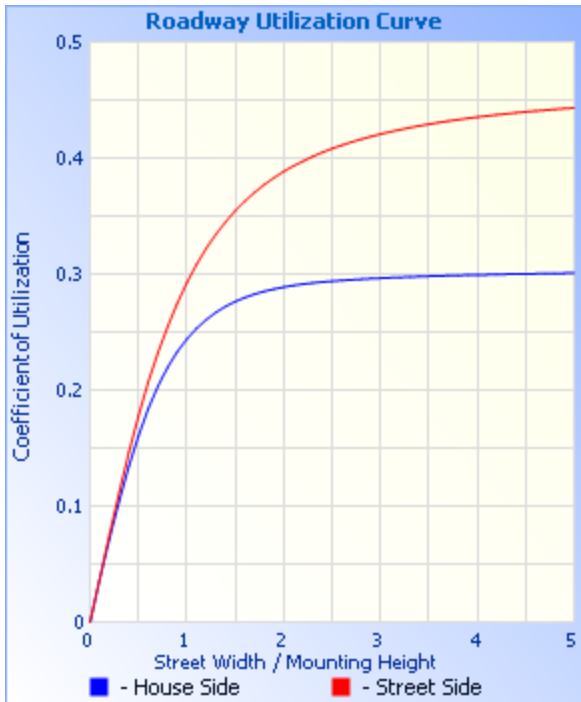
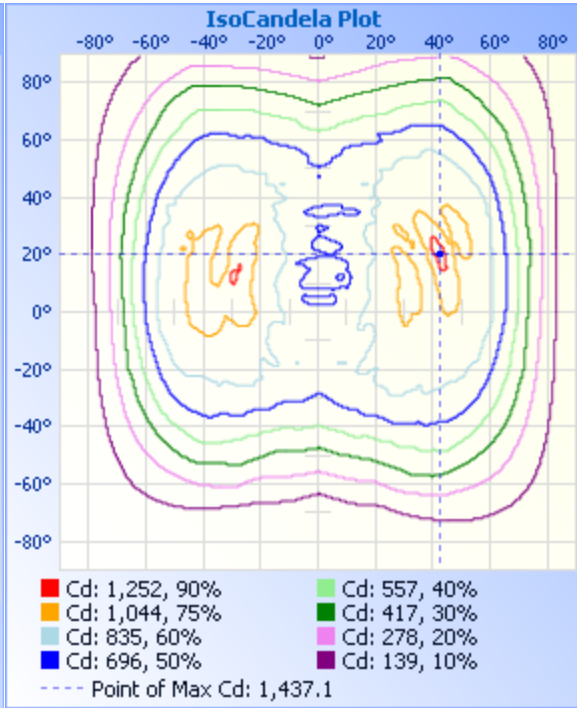
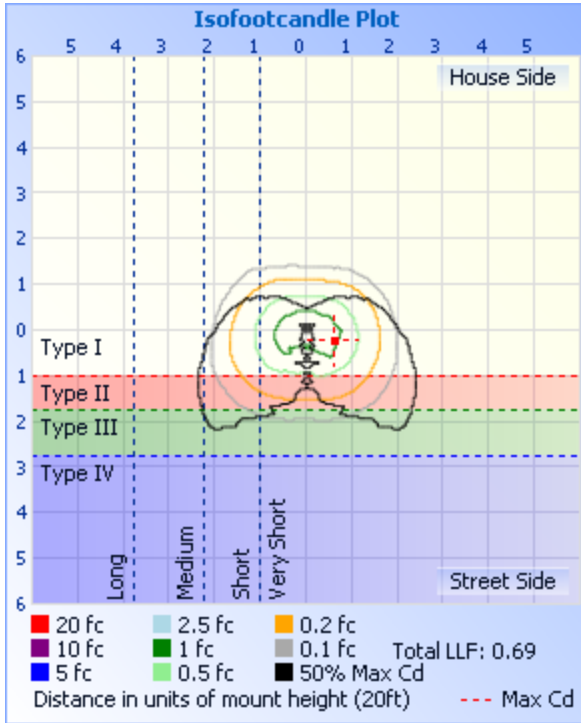
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	93.5%	3,514.5	162.1	171.2
Beam (50%):	62.9%	2,364.9	59.3	103.1
Total:	100%	3,758.1		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	685.6	18.2%	18.2%
0-40	1,240.4	33%	33%
0-60	2,530.3	67.3%	67.3%
60-90	1,045.3	27.8%	27.8%
70-100	604.2	16.1%	16.1%
90-120	158.3	4.2%	4.2%
0-90	3,575.6	95.1%	95.1%
90-180	183.4	4.9%	4.9%
0-180	3,759.0	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	69.4	1.8%	90-100	83.5	2.2%
10-20	217.5	5.8%	100-110	47.2	1.3%
20-30	398.7	10.6%	110-120	27.5	0.7%
30-40	554.8	14.8%	120-130	14.4	0.4%
40-50	644.5	17.1%	130-140	6.0	0.2%
50-60	645.4	17.2%	140-150	2.3	0.1%
60-70	524.6	14.0%	150-160	1.3	0%
70-80	337.4	9.0%	160-170	0.8	0%
80-90	183.3	4.9%	170-180	0.3	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	50	30	20	0
RCR: 0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	.95	1.08	1.08	1.08		1.03	1.03	1.03		.98	.98	.98		.95			

1	1.06	1.00	.95	.90	1.02	.97	.93	.76	.92	.88	.85	.87	.84	.81	.83	.80	.78	.75
2	.95	.85	.78	.71	.92	.83	.76	.62	.79	.73	.68	.75	.70	.65	.71	.67	.63	.60
3	.86	.74	.65	.58	.83	.72	.64	.51	.68	.61	.55	.65	.59	.54	.61	.56	.52	.49
4	.78	.65	.55	.48	.75	.63	.54	.43	.60	.52	.46	.57	.50	.45	.54	.48	.43	.41
5	.71	.57	.47	.40	.68	.56	.46	.37	.53	.45	.39	.50	.43	.38	.48	.42	.37	.35
6	.65	.51	.41	.34	.63	.50	.41	.31	.47	.39	.33	.45	.38	.33	.43	.37	.32	.30
7	.60	.46	.36	.30	.58	.45	.36	.27	.43	.35	.29	.41	.34	.28	.39	.33	.28	.26
8	.56	.41	.32	.26	.54	.40	.32	.24	.39	.31	.25	.37	.30	.25	.35	.29	.24	.22
9	.52	.38	.29	.23	.50	.37	.29	.22	.35	.28	.22	.34	.27	.22	.32	.26	.22	.20
10	.48	.34	.26	.21	.47	.34	.26	.19	.32	.25	.20	.31	.24	.20	.30	.24	.19	.18

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	758	758	758	758	758	758	758	758	758	758	758	758	758	758	758	758	758
1	777	773	780	774	760	736	722	717	713	711	721	736	760	784	789	783	777
2	719	720	745	776	764	723	707	702	700	696	703	719	762	787	755	728	719
3	686	690	716	759	764	711	703	717	716	712	695	710	768	767	714	698	686
4	677	677	691	743	768	706	716	712	707	705	713	698	767	742	694	683	677
5	668	665	681	732	771	706	716	721	745	705	717	696	768	718	686	673	668
6	690	675	669	725	772	713	728	788	780	769	710	707	779	708	676	674	690
7	746	726	675	728	775	731	774	759	735	765	734	723	783	708	670	729	746
8	705	741	699	731	783	738	792	715	700	723	793	735	783	709	686	736	705
9	658	687	736	722	791	747	751	700	705	701	795	739	788	709	734	673	658
10	658	662	761	722	802	758	712	718	731	708	752	739	788	707	756	655	658
11	645	657	746	726	824	791	704	755	753	737	718	742	793	706	726	659	645
12	651	647	722	732	845	831	722	761	736	764	716	760	806	706	681	646	651
13	712	664	731	738	848	842	752	735	737	749	735	804	808	711	687	658	712
14	714	720	730	770	889	808	775	744	762	745	764	853	819	719	697	723	714
15	664	733	714	812	896	770	771	761	745	767	788	868	837	741	686	728	664
16	659	716	720	871	901	756	752	740	735	769	788	846	864	770	675	677	659
17	649	713	751	866	892	765	762	747	804	752	772	808	874	792	697	675	649
18	637	704	787	868	929	785	777	815	846	788	791	786	881	809	730	670	637
19	676	679	791	877	963	826	779	849	781	858	826	778	895	838	747	650	676
20	717	704	823	918	951	839	767	785	717	841	831	800	894	877	757	667	717
21	680	753	906	953	985	877	794	729	727	765	814	837	884	950	762	721	680
22	685	730	994	947	1051	858	845	736	738	737	821	859	919	1014	783	710	685
23	678	740	1029	943	1086	851	876	760	744	755	880	869	938	1071	810	689	678
24	657	758	1058	981	1122	852	847	773	739	772	928	872	938	1053	797	703	657
25	669	752	1023	1007	1143	879	811	762	715	776	916	900	957	1045	790	705	669
26	715	754	923	1044	1185	918	789	750	697	776	858	885	999	1021	828	692	715
27	699	796	922	1067	1128	938	805	720	711	755	815	882	1014	1031	810	703	699
28	703	800	963	1142	1126	926	818	741	699	741	826	917	1044	1050	811	744	703
29	706	789	1031	1133	1127	907	850	726	707	751	846	921	1072	1028	860	722	706
30	685	813	1052	1191	1078	935	845	746	668	746	855	913	1114	1042	952	728	685

31	663	799	1022	1295	1061	934	847	715	689	764	855	952	1121	1049	1014	733	663
32	730	774	1011	1388	1053	909	818	713	659	724	861	957	1047	1064	1017	709	730
33	742	795	1047	1312	1055	933	840	713	620	739	848	926	1044	1067	1027	694	742
34	687	855	1126	1167	1048	935	824	669	621	733	837	923	1042	1132	1026	765	687
35	635	785	1123	1055	1106	943	828	649	623	690	841	967	1045	1160	1012	783	635
36	659	726	1164	978	1137	918	833	660	615	676	832	996	1016	1081	963	700	659
37	704	741	1234	954	1135	915	792	651	597	683	860	979	1002	1027	946	649	704
38	698	803	1199	960	1158	906	787	623	577	679	855	979	992	997	1036	684	698
39	691	812	1036	973	1162	903	775	612	530	650	801	975	992	1035	1097	743	691
40	743	799	931	1006	1146	874	763	599	539	638	796	930	1007	996	1121	741	743
41	771	845	916	1021	1152	886	741	553	561	615	815	893	1001	1021	996	728	771
42	703	892	914	1088	1150	905	732	567	503	576	780	861	1012	1043	881	780	703
43	686	852	891	1178	1097	871	738	573	456	596	755	892	1051	1074	906	828	686
44	758	802	905	1268	1076	845	737	518	465	602	767	907	1056	1220	953	777	758
45	779	863	935	1227	1085	848	710	483	475	550	768	898	1052	1398	954	750	779
46	712	898	945	1097	1075	832	675	492	429	510	735	884	1032	1437	952	813	712
47	687	837	960	1106	995	825	661	504	411	518	723	866	1043	1364	969	850	687
48	691	811	977	1093	961	845	647	452	399	530	701	874	1031	1196	1018	797	691
49	713	811	954	1004	982	819	644	433	383	481	673	852	997	1097	1018	771	713
50	718	829	943	1015	961	803	645	432	374	453	658	827	1001	1042	966	776	718
51	723	837	930	1087	956	811	638	420	356	450	666	832	1011	1012	943	789	723
52	673	844	955	1053	950	797	590	405	331	436	665	816	993	1033	954	802	673
53	659	798	939	1015	909	769	572	396	314	418	638	806	950	1103	992	809	659
54	665	764	913	994	888	744	575	377	307	405	601	802	927	1117	970	782	665
55	679	765	906	942	903	724	561	355	283	389	575	771	912	1119	930	736	679
56	659	795	886	947	820	702	538	341	262	367	576	777	943	1117	932	741	659
57	655	793	877	915	785	682	546	327	243	352	572	740	908	1065	944	762	655
58	639	770	874	862	762	663	533	304	227	340	553	721	872	1024	957	764	639
59	598	766	849	821	735	618	475	285	205	315	524	690	856	1016	920	744	598
60	587	721	835	845	722	586	447	262	185	290	525	673	861	965	892	741	587
61	611	690	814	853	676	572	425	244	166	271	545	647	807	920	879	702	611
62	604	712	801	785	649	545	406	227	151	254	495	628	762	918	869	673	604
63	571	724	782	760	601	499	394	214	136	239	460	592	745	900	871	694	571
64	542	689	772	716	583	456	399	207	122	220	441	561	710	871	869	707	542
65	514	657	765	696	551	451	373	193	110	204	429	539	695	883	842	672	514
66	524	626	749	678	521	417	330	178	99	191	399	524	650	835	813	647	524
67	557	619	761	660	453	387	292	149	90	171	369	493	626	769	786	615	557
68	478	650	725	613	418	357	275	121	81	152	338	444	582	749	780	606	478
69	450	607	699	591	426	328	251	107	74	134	314	433	570	718	765	637	450
70	471	549	663	553	355	312	220	97	69	117	291	406	537	702	755	601	471
71	468	555	652	530	333	285	187	89	66	104	273	372	502	664	742	534	468
72	425	572	643	505	301	251	170	84	62	95	244	348	446	630	699	532	425
73	414	538	617	452	262	217	156	79	59	89	215	329	408	584	659	547	414

74	397	512	595	429	238	192	142	74	57	83	184	308	409	580	661	521	397
75	376	506	575	417	206	174	133	72	56	78	168	273	338	539	647	490	376
76	369	477	556	367	183	160	124	69	55	74	155	247	315	516	612	482	369
77	355	451	541	353	156	147	116	67	55	71	144	214	288	472	585	466	355
78	325	441	534	324	136	135	108	66	54	70	133	187	256	422	570	439	325
79	315	423	536	293	120	124	100	64	53	68	124	168	231	430	560	425	315
80	304	396	511	271	106	117	95	63	53	66	117	152	202	376	530	413	304
81	277	380	458	244	95	108	91	62	52	65	111	139	175	350	504	385	277
82	254	362	417	223	86	100	86	61	51	64	105	127	150	333	482	374	254
83	235	339	396	204	79	93	82	60	50	63	97	118	129	290	450	357	235
84	218	319	363	187	72	85	79	59	48	62	91	109	115	271	430	332	218
85	200	294	329	171	68	79	77	58	47	61	87	101	100	251	411	317	200
86	181	274	303	157	62	73	74	57	45	59	84	93	90	228	369	302	181
87	164	263	287	146	58	68	71	55	43	58	81	88	81	204	343	282	164
88	149	252	245	137	56	62	69	54	42	56	78	82	74	184	324	271	149
89	135	211	209	129	54	57	66	52	40	55	75	76	68	167	303	248	135
90	121	175	185	121	52	52	63	51	38	53	71	70	64	151	266	245	121
91	106	155	173	112	50	48	61	49	38	52	69	65	60	140	228	214	106
92	95	136	161	105	48	44	59	46	36	50	66	60	57	131	201	166	95
93	86	121	149	97	47	41	56	44	34	48	64	56	53	123	184	140	86
94	79	109	138	90	46	39	53	42	33	46	62	52	51	115	170	125	79
95	74	99	129	84	46	38	51	40	32	44	59	48	50	107	158	113	74
96	70	92	122	79	45	36	48	38	31	42	56	45	48	101	147	102	70
97	66	85	115	74	42	34	46	36	30	40	54	43	47	95	139	94	66
98	64	80	109	69	40	33	43	34	29	38	52	41	45	89	130	87	64
99	61	76	104	64	40	32	40	32	28	36	48	40	45	84	121	81	61
100	59	74	100	60	38	31	37	29	27	33	46	38	43	78	113	78	59
101	58	73	98	55	37	30	34	27	26	31	42	37	42	74	106	76	58
102	57	71	94	53	35	30	31	25	24	29	40	35	42	70	101	73	57
103	55	69	91	50	34	29	28	23	23	27	38	34	40	64	95	72	55
104	54	68	86	48	33	28	26	20	22	24	34	33	39	61	91	71	54
105	54	67	83	46	31	27	23	19	20	22	31	31	38	57	88	70	54
106	53	65	80	44	31	26	22	16	18	20	29	30	36	53	85	68	53
107	52	63	77	43	30	25	19	14	16	18	26	29	35	50	81	67	52
108	51	62	74	41	29	24	17	13	15	16	24	28	34	48	78	65	51
109	49	60	71	39	28	23	17	11	13	14	22	27	33	46	76	64	49
110	48	58	69	37	27	22	15	9	11	13	20	26	32	43	72	63	48
111	46	56	66	36	26	21	15	8	9	10	18	25	30	42	70	60	46
112	44	54	63	34	25	21	14	7	8	9	17	25	30	41	68	59	44
113	42	52	59	33	24	20	13	5	7	7	16	24	28	39	65	57	42
114	39	49	55	31	23	20	13	3	5	6	16	22	27	37	62	55	39
115	36	47	51	30	23	19	12	3	3	4	15	22	26	35	59	52	36
116	33	44	48	28	22	18	12	3	2	4	14	21	25	34	55	50	33

117	29	43	43	27	21	18	11	3	3	4	13	21	24	32	51	48	29
118	27	41	40	25	20	18	10	3	2	3	13	21	24	30	48	44	27
119	26	39	37	24	20	18	10	3	3	3	12	20	23	29	45	43	26
120	25	36	34	23	19	17	10	2	2	3	12	19	22	26	41	40	25
121	24	34	31	22	18	16	9	3	2	3	11	19	22	26	39	38	24
122	23	32	28	20	18	16	8	2	3	3	11	19	21	24	35	36	23
123	23	30	26	20	18	16	7	3	3	3	10	19	20	23	33	33	23
124	22	28	23	19	17	15	7	3	3	2	10	18	20	22	30	31	22
125	21	25	21	18	16	14	6	3	2	2	9	17	19	21	28	29	21
126	20	23	19	18	16	13	7	2	2	3	9	17	19	20	25	27	20
127	19	22	17	16	15	13	5	2	2	2	9	16	18	19	23	25	19
128	18	20	15	16	14	12	5	2	3	2	8	16	17	18	20	23	18
129	17	17	14	15	14	11	5	3	2	2	8	15	17	18	18	21	17
130	15	15	11	15	14	11	4	2	2	3	7	14	17	17	16	19	15
131	14	14	10	14	13	10	4	3	3	3	6	14	17	16	14	17	14
132	13	12	9	14	11	9	4	2	2	2	6	13	16	16	12	15	13
133	12	10	8	12	10	9	4	2	3	3	5	12	15	16	11	13	12
134	11	9	8	13	9	8	4	3	2	3	5	11	14	15	10	11	11
135	9	8	7	11	7	8	3	3	3	3	5	11	12	14	9	10	9
136	8	5	7	10	6	7	4	3	2	3	4	10	10	14	9	8	8
137	6	5	6	10	5	7	3	3	3	2	4	10	6	13	8	7	6
138	5	4	6	9	5	7	3	2	3	1	4	9	6	12	8	4	5
139	4	3	5	8	4	5	3	3	3	3	3	8	4	11	7	4	4
140	3	2	4	7	4	5	3	2	2	2	4	8	4	10	7	2	3
141	3	3	5	7	4	5	3	3	3	3	4	7	4	10	6	2	3
142	3	2	4	7	3	5	3	3	3	3	3	7	5	9	6	3	3
143	3	2	4	6	3	5	3	3	2	3	3	7	4	8	5	2	3
144	3	2	4	5	3	4	3	2	3	3	3	6	3	7	5	2	3
145	3	2	3	5	3	4	3	3	3	2	3	6	4	8	4	3	3
146	3	2	3	5	2	4	4	3	3	2	3	6	3	5	4	3	3
147	3	3	3	4	2	3	2	3	3	2	3	4	3	6	4	3	3
148	3	3	3	4	2	3	3	3	3	3	2	5	3	5	4	3	3
149	3	2	3	4	2	3	3	3	3	3	3	4	3	6	3	3	3
150	3	3	3	4	2	3	3	3	3	3	3	3	3	5	3	3	3
151	3	3	3	4	1	3	3	3	3	2	3	3	2	4	3	3	3
152	3	3	3	3	2	3	3	3	3	3	3	3	2	4	3	3	3
153	3	2	3	4	2	3	3	3	3	3	3	3	3	4	3	3	3
154	2	3	3	3	1	3	3	3	3	3	3	3	2	4	3	3	2
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158	3	2	2	3	1	3	4	3	3	3	3	3	2	3	3	2	3
159	3	3	3	3	2	2	3	3	3	2	3	3	2	3	3	3	3

160	3	3	3	3	1	3	3	3	3	3	3	3	2	3	3	3	3
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175	3	2	3	3	2	3	3	3	3	3	3	3	2	3	3	3	3
176	3	2	3	3	2	3	3	3	3	3	3	3	2	3	3	3	3
177	3	2	3	3	1	3	3	3	3	2	3	3	2	3	3	3	3
178	2	3	2	2	1	3	3	2	3	3	2	3	2	3	3	3	2
179	3	3	3	3	1	3	3	3	3	2	3	3	2	3	3	2	3
180	2	2	3	3	1	3	2	3	3	3	3	3	2	3	3	3	2

Luminaire Report Summary

IESNA:LM-63-1995
 [TEST]
 [ISSUEDATE] 2019-4-23 10:19
 [MANUFAC] Ningbo Vance Lighting Co.,Ltd
 [LUMCAT]
 [LUMINAIRE] CWP28/H1/50K/P/G1
 [LAMPCAT]
 [TESTLAB] Belling Test Laboratory Co., LTD
 [_TESTINST] GPM-3000
 [_TESTDIST] 14.040 m [K=1.0000]
 [_TESTTEMPERATURE] 23.8 'C
 [_TESTHUMIDITY]
 [_TESTOPERATOR]
 [BALLAST]
 [BALLASTCAT]
 FILE: CANDELA MULTIPLIER: 1.0339
 FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17
 FILE: COORDINATE SYSTEM: TYPE C
 FILE: UNIT OF MEASURE: METRIC
 FILE: BALLAST FACTOR: 1