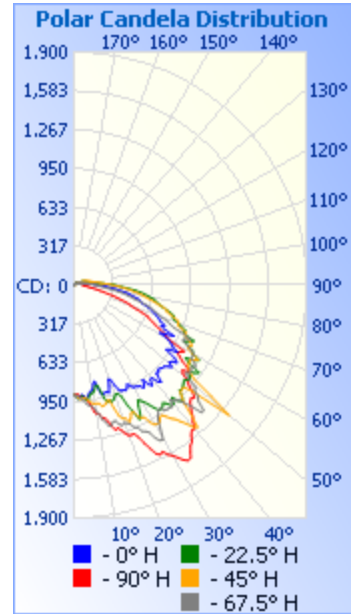


Photometrics Pro

Luminaire Photometric Report

Filename: IES_CWP38H150KPG1-120V
Manufacturer: Ningbo Vance Lighting Co.,Ltd
Luminaire: CWP38H150KPG1
Lamp Output: 1 lamp, rated Lumens/lamp: 5054.8
Max Candela: 1,819.3 at Horizontal: 270°, Vertical: 33°
Input Wattage: 39.42
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:	370.0	
Max Cd, 80 to <90 Deg:	665.4	
	Lumens	% Lamp
Downward Street Side:	2,912.6	57.6%
Downward House Side:	1,872.1	37%
Downward Total:	4,784.7	94.7%
Upward Street Side:	201.6	4%
Upward House Side:	69.1	1.4%
Upward Total:	270.6	5.4%
Total Lumens:	5,055.3	100%

Flood Summary

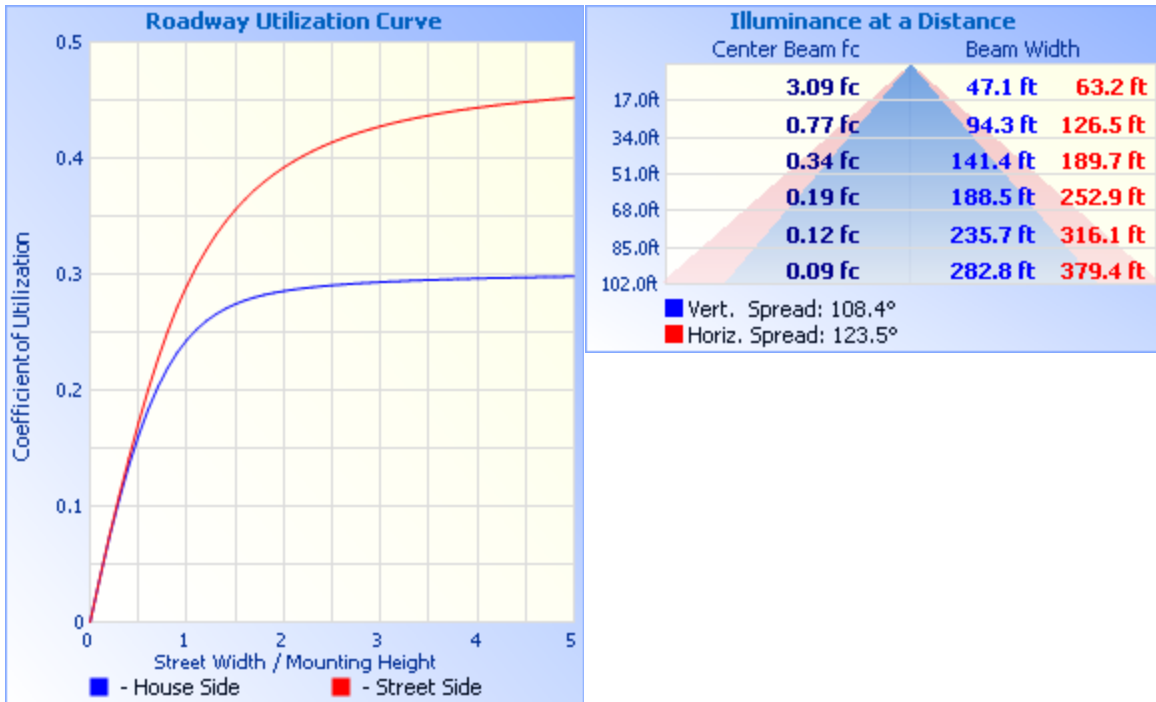
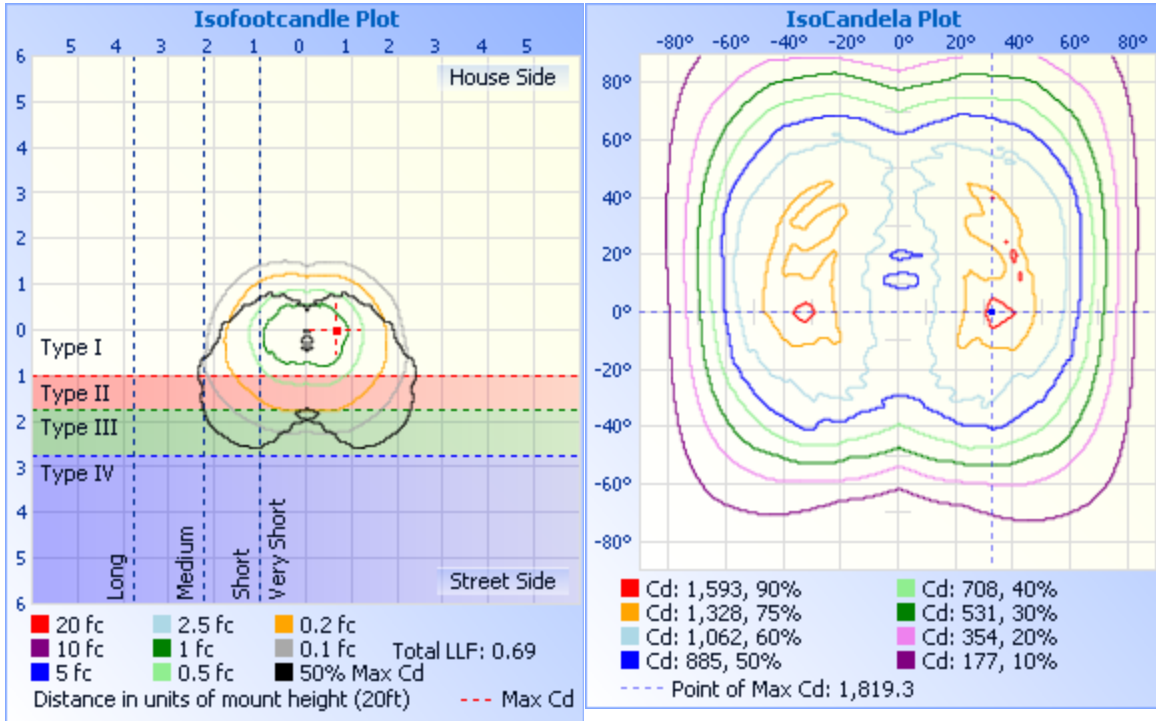
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	93.7%	4,735.8	162.1	169.3
Beam (50%):	67.3%	3,402.9	123.5	108.4
Total:	100%	5,053.4		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	931.2	18.4%	18.4%
0-40	1,681.1	33.3%	33.3%
0-60	3,380.9	66.9%	66.9%
60-90	1,403.6	27.8%	27.8%
70-100	852.9	16.9%	16.9%
90-120	235.0	4.6%	4.6%
0-90	4,784.5	94.7%	94.6%
90-180	270.7	5.4%	5.4%
0-180	5,055.2	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	91.0	1.8%	90-100	127.4	2.5%
10-20	296.8	5.9%	100-110	68.2	1.3%
20-30	543.4	10.8%	110-120	39.3	0.8%
30-40	749.9	14.8%	120-130	20.5	0.4%
40-50	865.2	17.1%	130-140	8.9	0.2%
50-60	834.7	16.5%	140-150	3.2	0.1%
60-70	678.1	13.4%	150-160	1.7	0%
70-80	460.2	9.1%	160-170	1.0	0%
80-90	265.3	5.2%	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	1.14	1.14	1.14	.95	1.08	1.08	1.08	1.08	1.02	1.02	1.02	1.02	.97	.97	.97	.97	.95	.95	.95	.95

1	1.05	1.00	.95	.90	1.02	.97	.92	.76	.92	.88	.84	.87	.84	.81	.82	.80	.77	.75
2	.95	.85	.78	.71	.91	.83	.76	.62	.78	.72	.67	.74	.69	.65	.70	.66	.63	.60
3	.86	.74	.65	.58	.82	.72	.63	.51	.68	.61	.55	.64	.58	.53	.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	.47	.36	.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	.23	.34	.27	.22	.32	.26	.22	.20
10	.48	.35	.26	.21	.47	.34	.26	.19	.32	.25	.20	.31	.25	.20	.30	.24	.20	.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	894	894	894	894	894	894	894	894	894	894	894	894	894	894	894	894	894
1	912	910	908	903	897	900	911	919	924	917	910	898	890	893	901	906	912
2	929	930	924	909	897	915	955	965	965	967	949	910	887	901	917	925	929
3	920	928	931	923	907	942	972	942	933	944	977	935	896	921	924	922	920
4	900	910	933	936	915	977	958	925	907	930	959	971	910	937	930	902	900
5	915	923	925	951	916	989	945	912	915	915	949	993	913	943	918	908	915
6	936	947	934	975	934	979	934	949	973	956	939	1001	916	949	914	931	936
7	914	948	951	990	955	982	954	988	990	1003	950	991	920	953	929	938	914
8	890	909	965	998	996	1021	999	964	934	988	986	984	928	963	948	900	890
9	878	896	985	1015	1048	1043	1018	941	961	954	1015	995	945	972	954	889	878
10	868	895	984	1045	1066	1063	1009	990	974	1003	1029	1000	974	976	935	886	868
11	817	872	988	1080	1077	1078	1000	1004	970	1009	1003	1016	992	983	932	866	817
12	804	840	990	1125	1114	1093	1055	982	932	1008	1006	1058	1037	1007	926	830	804
13	861	843	1019	1151	1116	1115	1151	947	950	964	1049	1103	1084	1035	932	818	861
14	919	894	1013	1189	1147	1166	1160	964	932	973	1060	1149	1083	1119	929	876	919
15	925	961	1006	1186	1196	1215	1120	945	912	970	1081	1172	1130	1239	936	923	925
16	915	998	983	1162	1235	1208	1074	931	951	944	1076	1184	1181	1181	983	945	915
17	911	986	987	1162	1221	1162	1095	956	952	974	1074	1191	1218	1162	948	939	911
18	926	1001	1060	1199	1250	1155	1105	973	959	988	1088	1208	1202	1183	982	945	926
19	877	991	1133	1213	1281	1180	1084	988	944	990	1093	1248	1239	1199	1048	951	877
20	820	973	1162	1200	1309	1231	1098	985	945	995	1071	1284	1254	1166	1183	927	820
21	828	951	1167	1210	1312	1312	1118	989	964	989	1091	1286	1289	1165	1206	892	828
22	884	959	1207	1227	1312	1350	1125	1017	1007	1003	1132	1336	1315	1201	1156	859	884
23	925	992	1185	1266	1353	1354	1126	1083	960	1045	1148	1408	1331	1257	1136	915	925
24	949	1079	1147	1273	1417	1346	1131	1054	881	1056	1174	1394	1383	1282	1106	985	949
25	945	1140	1141	1319	1477	1355	1115	966	888	982	1184	1382	1404	1345	1150	1041	945
26	960	1221	1198	1331	1537	1294	1148	958	965	923	1173	1339	1424	1392	1171	1042	960
27	951	1198	1219	1351	1558	1268	1199	1021	972	954	1176	1298	1484	1361	1182	1026	951
28	920	1122	1225	1419	1542	1238	1267	1071	923	1025	1203	1282	1516	1366	1203	1015	920
29	935	1077	1284	1455	1587	1236	1231	1038	869	1028	1228	1247	1522	1365	1236	1005	935
30	966	1094	1318	1460	1610	1243	1138	999	798	982	1207	1249	1583	1339	1263	1029	966

31	969	1117	1323	1373	1646	1251	1118	936	806	933	1143	1257	1626	1307	1274	1111	969
32	980	1152	1327	1296	1685	1224	1145	884	907	875	1110	1251	1722	1257	1334	1076	980
33	983	1193	1289	1262	1713	1189	1210	928	851	861	1129	1239	1819	1239	1316	1071	983
34	1015	1231	1284	1232	1707	1183	1227	1013	760	949	1211	1236	1788	1269	1280	1113	1015
35	1001	1239	1312	1230	1660	1190	1179	938	774	968	1228	1211	1743	1210	1241	1153	1001
36	956	1232	1350	1264	1621	1206	1128	853	774	872	1189	1189	1701	1201	1313	1154	956
37	1017	1209	1372	1271	1605	1209	1100	870	738	855	1132	1193	1684	1203	1354	1118	1017
38	1041	1229	1415	1273	1557	1202	1048	873	743	864	1117	1182	1623	1242	1391	1100	1041
39	991	1271	1459	1280	1530	1217	988	841	701	847	1062	1186	1592	1253	1419	1140	991
40	988	1269	1515	1224	1535	1212	1034	845	675	836	1003	1218	1605	1286	1418	1145	988
41	1047	1218	1540	1254	1482	1149	1097	813	655	827	1022	1230	1579	1350	1426	1130	1047
42	1065	1272	1444	1262	1453	1101	1064	789	634	787	1081	1225	1558	1425	1357	1143	1065
43	985	1300	1324	1314	1406	1097	979	769	617	777	1080	1164	1533	1582	1306	1176	985
44	996	1277	1268	1374	1375	1077	934	759	587	761	1022	1090	1496	1730	1344	1166	996
45	973	1220	1232	1474	1344	1085	928	746	561	750	962	1048	1457	1596	1331	1121	973
46	981	1225	1224	1475	1333	1090	914	709	537	734	949	1031	1412	1402	1348	1088	981
47	993	1219	1225	1390	1347	1062	920	679	531	698	926	1050	1335	1305	1405	1094	993
48	992	1203	1289	1363	1301	1038	945	653	510	677	907	1077	1305	1264	1496	1125	992
49	1015	1191	1446	1309	1245	1039	938	648	465	656	897	1046	1341	1279	1673	1138	1015
50	1042	1204	1657	1299	1205	1001	906	640	438	652	889	1012	1311	1243	1616	1112	1042
51	1002	1225	1445	1196	1142	967	857	592	420	641	875	1014	1260	1214	1377	1154	1002
52	1014	1200	1245	1164	1129	976	812	545	393	589	867	971	1240	1201	1260	1162	1014
53	1055	1182	1188	1190	1189	952	793	527	361	553	805	941	1219	1206	1194	1133	1055
54	1018	1221	1164	1183	1145	937	759	508	334	532	773	919	1164	1222	1181	1169	1018
55	919	1249	1140	1169	1082	905	713	491	309	499	738	909	1137	1240	1178	1220	919
56	938	1129	1136	1198	1042	860	679	469	288	478	707	913	1119	1292	1169	1090	938
57	1009	1089	1130	1179	1006	831	641	434	267	448	677	864	1076	1272	1144	1046	1009
58	952	1164	1152	1132	1029	802	609	408	245	432	632	812	1036	1223	1183	1120	952
59	926	1194	1187	1131	1054	744	589	395	220	393	606	796	990	1177	1206	1179	926
60	890	1118	1122	1135	923	698	561	371	198	372	588	784	958	1141	1129	1073	890
61	802	1110	1065	1098	864	666	511	315	177	373	560	742	996	1125	1043	1056	802
62	856	1065	1068	1049	834	648	470	274	161	308	527	705	938	1136	1045	1018	856
63	918	1007	1084	999	781	641	445	251	146	267	480	660	845	1080	1091	934	918
64	826	1054	1054	1000	738	633	423	234	135	247	443	618	824	1052	1090	1010	826
65	786	1082	1016	1047	709	571	390	213	126	234	420	624	785	1015	1046	1062	786
66	813	995	988	982	672	531	364	193	117	226	393	632	750	1001	1025	960	813
67	773	973	999	891	651	499	346	174	109	195	366	546	695	1040	995	923	773
68	753	979	948	845	603	466	322	160	103	177	349	533	657	979	949	939	753
69	741	934	911	815	552	427	295	150	98	163	324	473	628	900	931	911	741
70	714	908	909	764	497	396	263	141	94	152	300	434	592	884	951	917	714
71	689	866	900	730	478	367	242	135	90	143	275	405	553	830	936	895	689
72	669	852	865	695	438	337	226	128	86	135	250	362	492	797	861	867	669
73	647	853	829	667	396	303	213	123	83	130	234	334	463	738	822	831	647

74	612	822	792	640	362	273	199	118	81	125	219	300	427	704	834	798	612
75	580	785	786	599	320	250	186	115	78	121	204	275	383	671	813	772	580
76	563	750	755	556	284	228	175	111	75	117	191	254	355	641	768	721	563
77	549	722	715	510	251	210	167	108	73	113	181	234	317	607	745	694	549
78	534	698	681	491	224	195	156	104	70	109	172	214	283	539	716	662	534
79	500	677	650	449	198	181	148	101	69	106	163	197	254	505	701	637	500
80	473	665	611	431	177	168	142	98	67	103	154	184	226	508	659	611	473
81	456	631	585	402	157	155	138	94	65	99	148	172	198	446	610	578	456
82	428	602	559	369	140	146	131	90	63	96	141	160	179	424	589	560	428
83	390	579	530	336	127	135	125	86	60	92	137	150	160	400	578	549	390
84	362	543	491	299	115	126	120	83	58	89	132	139	143	370	534	533	362
85	338	507	467	271	105	117	114	80	55	85	125	130	130	334	489	505	338
86	309	465	433	249	98	110	108	76	53	82	120	121	120	303	471	485	309
87	283	429	404	229	89	102	103	72	50	78	115	113	110	279	438	460	283
88	256	389	375	211	85	94	98	68	48	74	109	105	100	252	413	420	256
89	231	361	348	197	82	87	93	65	45	70	105	98	93	230	397	377	231
90	211	340	319	183	81	79	89	61	43	67	99	92	88	213	370	321	211
91	190	318	296	170	78	73	83	57	41	63	95	86	85	197	340	283	190
92	172	284	271	159	75	68	79	54	40	59	89	80	82	185	308	260	172
93	157	250	252	150	73	64	74	51	38	55	85	75	79	173	274	248	157
94	144	223	231	140	72	60	69	47	36	52	80	71	76	162	246	227	144
95	133	202	217	131	70	56	66	45	35	49	75	67	75	151	229	200	133
96	123	185	204	123	68	53	61	42	33	46	70	64	71	143	215	179	123
97	116	170	191	115	66	51	57	39	32	42	65	60	69	132	204	164	116
98	110	158	179	109	62	48	53	36	31	40	61	57	67	123	192	152	110
99	105	147	169	102	60	46	49	34	29	37	56	55	65	116	182	142	105
100	100	138	159	94	58	44	45	31	27	34	52	52	62	109	173	134	100
101	96	130	151	88	55	42	42	29	26	32	48	50	58	103	165	128	96
102	93	126	145	83	53	40	39	26	24	29	44	48	57	95	156	123	93
103	89	120	140	77	51	39	35	23	22	26	41	46	54	90	149	119	89
104	86	116	135	73	49	37	31	21	20	24	37	44	53	84	144	114	86
105	83	111	128	69	47	36	29	19	18	21	34	43	50	77	138	110	83
106	81	108	122	65	46	35	26	17	16	19	32	42	49	73	133	107	81
107	78	103	115	62	44	34	24	14	15	17	29	40	47	70	127	103	78
108	76	100	110	59	42	33	23	12	13	15	27	39	46	67	121	99	76
109	75	97	104	56	42	32	21	10	10	12	25	37	44	63	114	96	75
110	73	93	99	53	39	31	21	8	9	10	24	37	42	60	109	93	73
111	71	89	94	51	38	30	19	7	7	8	22	36	41	57	103	89	71
112	68	85	89	49	37	29	18	4	6	6	22	34	40	55	99	86	68
113	66	80	85	47	37	29	18	4	4	6	20	34	38	53	93	82	66
114	63	77	81	44	35	28	17	4	2	5	20	33	37	50	89	79	63
115	58	72	75	43	35	28	17	3	2	5	18	32	36	47	84	75	58
116	53	68	70	40	34	27	16	3	3	5	18	31	35	46	80	71	53

117	48	64	65	38	33	26	15	3	3	4	17	30	35	43	75	67	48
118	43	60	61	36	32	25	14	3	3	3	16	29	33	41	69	62	43
119	38	57	56	35	31	25	13	3	3	3	15	28	32	39	65	59	38
120	36	53	52	33	31	23	13	3	3	3	15	28	32	37	60	55	36
121	34	50	47	32	30	23	12	3	3	3	14	27	31	35	55	51	34
122	33	47	44	30	29	22	11	3	3	3	13	27	30	33	51	48	33
123	32	45	40	29	28	20	10	3	3	2	12	25	29	31	47	45	32
124	31	42	37	27	27	19	10	3	3	3	12	25	28	30	42	43	31
125	30	40	33	26	26	18	9	3	3	3	11	23	28	29	39	40	30
126	29	37	30	25	25	17	8	3	3	3	11	23	26	28	36	37	29
127	27	34	28	24	24	17	8	3	2	3	9	21	26	26	32	35	27
128	26	32	25	23	23	16	7	3	2	3	9	20	25	25	29	32	26
129	25	29	23	23	22	14	7	3	2	3	8	19	24	24	27	30	25
130	24	27	20	22	21	13	6	3	3	3	8	18	23	23	24	28	24
131	22	25	17	20	20	13	6	3	3	3	7	17	22	22	22	25	22
132	21	23	15	20	18	12	6	3	3	3	6	17	21	21	19	23	21
133	19	20	14	18	17	11	5	3	3	3	7	15	20	20	17	21	19
134	17	17	12	18	15	10	4	4	3	3	6	14	19	19	15	18	17
135	16	16	11	17	13	9	5	4	3	4	5	14	17	18	12	17	16
136	14	13	10	16	9	9	5	4	3	3	6	13	16	17	11	14	14
137	13	12	9	15	8	8	4	3	3	4	5	12	15	16	10	13	13
138	11	9	9	14	7	8	4	3	3	3	5	11	12	15	9	10	11
139	10	8	8	13	7	7	4	4	3	4	5	11	10	14	9	9	10
140	8	6	8	11	7	6	4	4	3	3	4	11	9	12	8	7	8
141	8	4	8	11	6	6	4	4	4	4	4	10	9	12	7	6	8
142	6	3	6	9	6	6	4	3	3	4	4	9	8	10	7	3	6
143	5	4	6	9	4	5	4	3	3	4	4	8	8	9	6	3	5
144	3	4	5	8	5	5	4	3	4	4	4	8	7	9	5	3	3
145	3	4	5	8	5	4	4	4	3	4	3	7	7	8	5	3	3
146	3	3	5	7	4	4	4	4	3	3	4	7	6	8	4	3	3
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Luminaire Report Summary

IESNA:LM-63-1995
 [TEST]
 [ISSUEDATE] 2019-2-22 10:53
 [MANUFAC] Ningbo Vance Lighting Co.,Ltd
 [LUMCAT]
 [LUMINAIRE] CWP38H150KPG1
 [LAMPCAT]
 [LAMP]
 [TESTLAB] Belling Test Laboratory Co., LTD
 [_TESTINST] GPM-3000
 [_TESTDIST] 14.040 m [K=1.0000]
 [_TESTTEMPERATURE] 21.4 'C
 [_TESTHUMIDITY]
 [_TESTOPERATOR]
 [BALLAST]
 [BALLASTCAT]
 FILE: CANDELA MULTIPLIER: 1.0384
 FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 17
 FILE: COORDINATE SYSTEM: TYPE C
 FILE: UNIT OF MEASURE: METRIC
 FILE: BALLAST FACTOR: 1

