

Photometrics Pro

Luminaire Photometric Report

Filename: AST-PHB08E-165WBMB1A1-abdW40-120V-2

Manufacturer: ASmart LIGHT CO., LTD

Luminaire Cat: AST-PHB08E-165WBMB1A1-abdW40

Lamp Output: 1 lamp, rated Lumens/lamp: 22597.4

Max Candela: 9,849.8 at Horizontal: 157.5°, Vertical: 1°

Input Wattage: 159.53

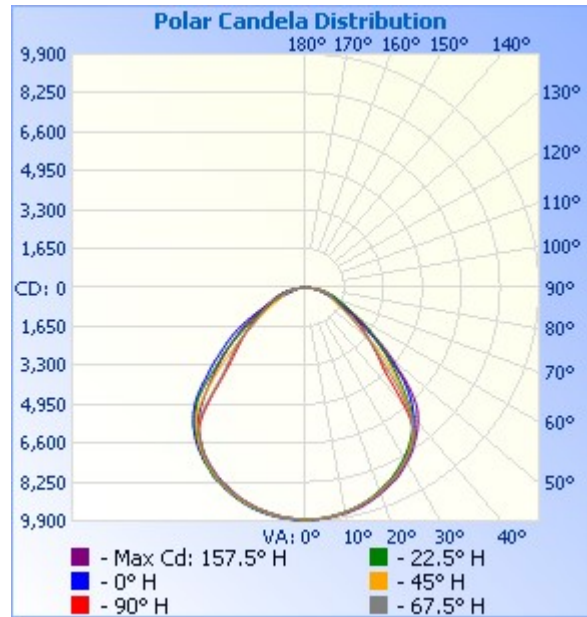
Luminous Opening: Rectangle (L: 22.76", W: 11.5")

Test: BLC2207035E-F

Test Lab: UTEST TECHNICAL LABORATORY

Photometry : Type C

Nema Type: 7 X 7



Roadway Summary

Cutoff Classification:	CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	20.5	
Max Cd, 80 to <90 Deg:	772.7	
	Lumens	% Lamp
Downward Street Side:	11,129.2	49.2%
Downward House Side:	11,356.5	50.3%
Downward Total:	22,485.7	99.5%
Upward Street Side:	57.7	0.3%
Upward House Side:	54.0	0.2%
Upward Total:	111.7	0.5%
Total Lumens:	22,597.4	100%

Flood Summary

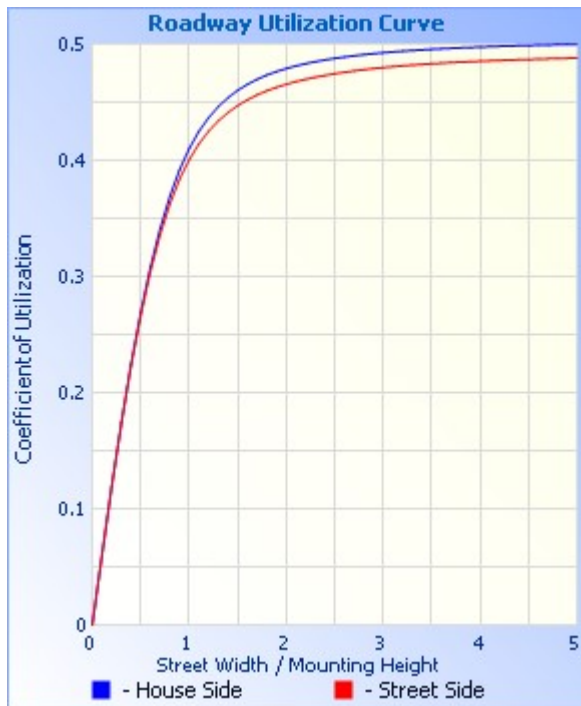
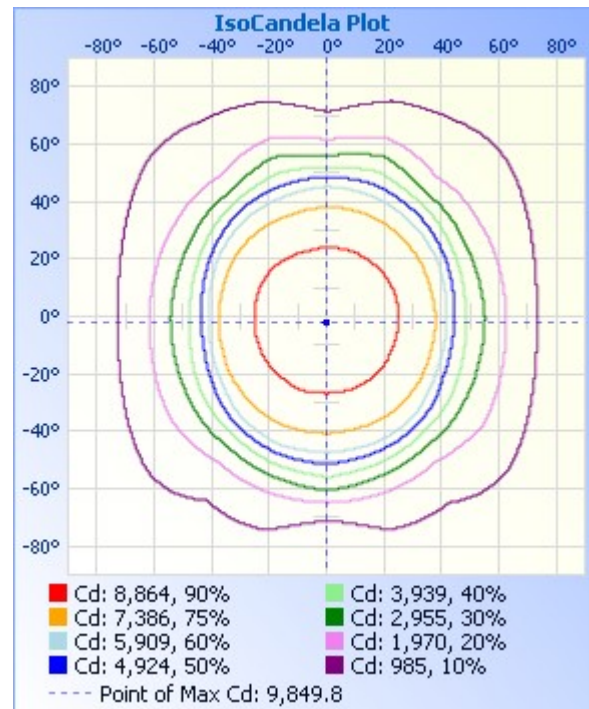
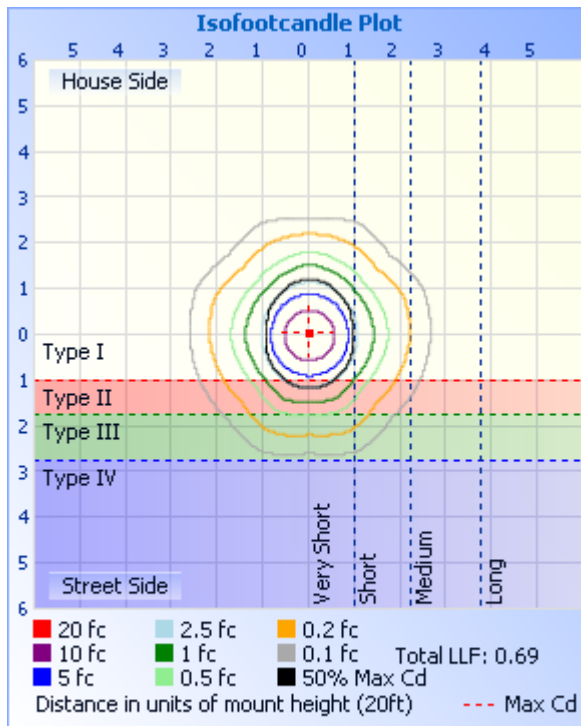
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.9%	21,663.1	146	142.4
Beam (50%):	69.5%	15,706.1	87.7	100.2
Total:	100%	22,587.9		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	7,703.3	34.1%	34.1%
0-40	12,611.9	55.8%	55.8%
0-60	19,589.3	86.7%	86.7%
60-90	2,893.6	12.8%	12.8%
70-100	1,271.8	5.6%	5.6%
90-120	41.7	0.2%	0.2%
0-90	22,482.9	99.5%	99.5%
90-180	111.7	0.5%	0.5%
0-180	22,594.6	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	931.5	4.1%	90-100	14.7	0.1%
10-20	2,679.5	11.9%	100-110	13.6	0.1%
20-30	4,092.4	18.1%	110-120	13.4	0.1%
30-40	4,908.6	21.7%	120-130	14.5	0.1%
40-50	4,223.6	18.7%	130-140	15.6	0.1%
50-60	2,753.7	12.2%	140-150	15.4	0.1%
60-70	1,636.5	7.2%	150-160	12.9	0.1%
70-80	968.0	4.3%	160-170	8.6	0%
80-90	289.1	1.3%	170-180	3.0	0%



	Center Beam fc	Beam Width	
4.3R	533 fc	10.3 ft	8.3 ft
8.7R	130 fc	20.8 ft	16.7 ft
13.0R	58.3 fc	31.1 ft	25.0 ft
17.3R	32.9 fc	41.4 ft	33.2 ft
21.7R	20.9 fc	51.9 ft	41.7 ft
26.0R	14.6 fc	62.2 ft	49.9 ft

■ Vert. Spread: 100.2°
■ Horiz. Spread: 87.7°

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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	.99	1.11	1.11	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	.99	
1	1.10	1.06	1.02	.99	1.07	1.04	1.00	.87	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86	.86	.86	
2	1.01	.94	.88	.83	.99	.92	.86	.75	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74	.74	.74	
3	.93	.84	.76	.71	.91	.82	.75	.66	.79	.73	.69	.77	.72	.67	.74	.70	.66	.64	.64	.64	

4	.86	.75	.67	.61	.84	.74	.66	.58	.71	.65	.60	.69	.64	.59	.67	.62	.58	.56
5	.80	.68	.60	.54	.78	.67	.59	.51	.65	.58	.53	.63	.57	.52	.61	.56	.51	.50
6	.74	.62	.53	.47	.72	.61	.53	.46	.59	.52	.47	.57	.51	.46	.56	.50	.46	.44
7	.69	.56	.48	.42	.67	.55	.48	.41	.54	.47	.42	.52	.46	.42	.51	.46	.41	.39
8	.64	.52	.44	.38	.63	.51	.43	.37	.50	.43	.38	.48	.42	.37	.47	.41	.37	.35
9	.60	.48	.40	.35	.59	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.32
10	.57	.44	.36	.31	.55	.43	.36	.31	.42	.36	.31	.42	.35	.31	.41	.35	.31	.29

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	9846	9846	9846	9846	9846	9846	9846	9846	9846	9846	9846	9846	9846	9846	9846	9846	9846
1	9845	9837	9841	9846	9841	9837	9839	9850	9845	9840	9842	9842	9839	9832	9841	9843	9845
2	9841	9829	9834	9831	9828	9827	9826	9842	9849	9848	9825	9823	9819	9824	9837	9828	9841
3	9831	9820	9816	9816	9811	9819	9826	9837	9848	9830	9813	9811	9805	9798	9811	9814	9831
4	9820	9810	9799	9809	9814	9814	9811	9824	9836	9819	9800	9801	9791	9787	9795	9795	9820
5	9804	9788	9791	9802	9800	9802	9801	9818	9827	9806	9789	9804	9791	9779	9773	9774	9804
6	9781	9765	9770	9784	9787	9796	9792	9801	9812	9784	9781	9789	9777	9770	9766	9758	9781
7	9758	9738	9755	9760	9757	9773	9776	9777	9804	9765	9771	9758	9749	9745	9745	9737	9758
8	9739	9711	9732	9732	9738	9751	9755	9758	9780	9745	9747	9721	9715	9713	9728	9704	9739
9	9707	9686	9711	9698	9712	9724	9735	9742	9757	9734	9724	9684	9680	9675	9704	9681	9707
10	9676	9651	9671	9670	9690	9705	9695	9719	9726	9708	9694	9664	9655	9652	9664	9651	9676
11	9647	9624	9636	9645	9665	9676	9660	9693	9694	9684	9649	9636	9627	9620	9621	9611	9647
12	9605	9591	9600	9616	9616	9644	9636	9668	9666	9653	9609	9613	9600	9586	9580	9580	9605
13	9566	9542	9560	9582	9577	9611	9603	9636	9633	9620	9575	9565	9552	9547	9542	9538	9566
14	9521	9496	9522	9539	9528	9574	9566	9605	9596	9577	9545	9517	9499	9491	9496	9496	9521
15	9476	9449	9478	9484	9495	9530	9527	9562	9547	9541	9510	9458	9451	9432	9448	9452	9476
16	9433	9402	9429	9446	9457	9487	9486	9508	9512	9496	9466	9414	9409	9384	9398	9408	9433
17	9372	9354	9381	9402	9409	9438	9422	9467	9457	9441	9405	9376	9369	9343	9341	9357	9372
18	9320	9288	9322	9360	9336	9384	9366	9408	9402	9391	9356	9317	9306	9289	9277	9294	9320
19	9255	9226	9266	9291	9278	9319	9321	9355	9346	9328	9298	9248	9251	9234	9216	9218	9255
20	9191	9159	9206	9233	9219	9249	9258	9301	9290	9267	9236	9190	9180	9167	9151	9153	9191
21	9130	9086	9137	9166	9167	9182	9199	9238	9228	9206	9174	9113	9118	9086	9085	9084	9130
22	9049	9000	9065	9096	9104	9128	9139	9176	9160	9149	9108	9045	9070	9021	9003	9000	9049
23	8991	8936	8971	9015	9031	9046	9062	9118	9088	9080	9021	8976	9005	8972	8923	9000	8991
24	8922	8906	8967	8975	8966	8974	8976	9035	8993	9009	8969	8950	8918	8941	8909	8899	8922
25	8828	8813	8882	8939	8884	8960	8924	9001	8988	8938	8932	8847	8832	8845	8813	8826	8828
26	8740	8728	8807	8843	8835	8845	8858	8935	8884	8907	8833	8771	8805	8754	8721	8745	8740
27	8653	8638	8715	8762	8774	8769	8767	8843	8794	8801	8751	8689	8716	8672	8623	8650	8653
28	8564	8538	8624	8677	8676	8691	8675	8757	8708	8708	8658	8596	8610	8577	8536	8566	8564
29	8472	8448	8538	8582	8584	8608	8592	8659	8619	8616	8566	8502	8518	8487	8437	8470	8472
30	8372	8351	8444	8495	8506	8530	8507	8571	8544	8526	8480	8411	8422	8383	8346	8385	8372
31	8281	8244	8349	8398	8411	8435	8392	8488	8460	8432	8381	8310	8318	8285	8247	8297	8281
32	8185	8142	8242	8293	8308	8330	8291	8387	8346	8311	8279	8191	8189	8171	8140	8196	8185
33	8081	8029	8130	8203	8196	8221	8180	8286	8265	8199	8175	8064	8067	8060	8026	8087	8081
34	7971	7915	8009	8094	8074	8105	8082	8161	8163	8102	8057	7944	7935	7925	7898	7964	7971
35	7859	7793	7883	7964	7952	7993	7964	8049	8046	7976	7939	7793	7799	7783	7765	7844	7859
36	7739	7656	7753	7801	7809	7881	7833	7933	7938	7851	7787	7667	7665	7615	7619	7725	7739
37	7612	7514	7597	7600	7629	7741	7700	7811	7813	7732	7648	7566	7513	7409	7457	7586	7612
38	7470	7354	7397	7339	7341	7563	7577	7690	7692	7603	7518	7405	7277	7158	7257	7422	7470
39	7306	7177	7138	7082	6963	7295	7436	7543	7563	7462	7397	7129	6940	6911	7005	7258	7306
40	7140	6985	6885	6789	6495	6919	7263	7409	7419	7325	7235	6703	6503	6653	6757	7038	7140
41	6962	6754	6622	6491	5996	6436	7032	7248	7262	7146	6987	6210	6061	6361	6492	6821	6962
42	6759	6475	6322	6118	5496	5930	6767	7092	7105	6973	6696	5739	5564	6008	6202	6555	6759
43	6567	6213	6038	5736	5048	5453	6470	6908	6912	6790	6389	5330	5152	5662	5890	6294	6567
44	6357	5943	5739	5337	4767	5100	6147	6671	6721	6587	6001	4986	4827	5304	5618	6028	6357
45	6135	5677	5422	4916	4556	4858	5752	6410	6486	6277	5640	4748	4562	4935	5320	5762	6135
46	5871	5419	5109	4578	4351	4630	5376	6118	6227	5944	5290	4535	4341	4582	5007	5504	5871

47	5610	5184	4798	4281	4149	4436	5014	5797	5950	5597	4940	4340	4136	4288	4702	5268	5610
48	5280	4933	4492	4026	3934	4242	4679	5467	5659	5259	4636	4155	3958	4003	4380	5049	5280
49	4947	4708	4140	3804	3760	4056	4390	5137	5425	4965	4298	3962	3780	3761	4076	4807	4947
50	4636	4480	3809	3586	3607	3858	4055	4883	5188	4713	3956	3793	3621	3527	3770	4587	4636
51	4329	4258	3483	3367	3454	3654	3749	4632	4955	4491	3652	3604	3479	3303	3472	4370	4329
52	4065	4051	3198	3172	3310	3446	3495	4374	4695	4245	3416	3404	3328	3104	3198	4165	4065
53	3769	3859	2969	2971	3164	3215	3254	4063	4474	3943	3185	3182	3182	2911	2963	3970	3769
54	3524	3658	2750	2801	3041	2990	3033	3775	4270	3667	2949	2939	3055	2749	2750	3766	3524
55	3269	3478	2575	2625	2923	2764	2807	3507	4075	3381	2746	2742	2920	2573	2576	3586	3269
56	3070	3293	2405	2448	2801	2599	2615	3272	3873	3170	2559	2593	2812	2419	2404	3405	3070
57	2839	3126	2239	2291	2656	2468	2435	3042	3681	2977	2383	2465	2675	2284	2246	3221	2839
58	2654	2963	2097	2143	2525	2346	2265	2837	3469	2776	2217	2359	2530	2142	2090	3044	2654
59	2476	2786	1948	2029	2400	2237	2093	2639	3240	2571	2046	2255	2408	2036	1958	2861	2476
60	2294	2607	1821	1924	2268	2133	1944	2447	2998	2393	1903	2160	2284	1930	1835	2663	2294
61	2135	2433	1706	1826	2126	2029	1807	2275	2735	2229	1778	2073	2135	1836	1723	2484	2135
62	1977	2265	1597	1738	1986	1953	1687	2105	2498	2076	1651	1996	2006	1743	1617	2318	1977
63	1836	2128	1505	1642	1865	1892	1558	1967	2272	1927	1546	1929	1869	1661	1523	2174	1836
64	1714	2000	1421	1563	1759	1830	1453	1837	2058	1805	1451	1851	1758	1568	1444	2038	1714
65	1594	1877	1361	1496	1670	1754	1356	1731	1838	1697	1364	1771	1652	1484	1374	1924	1594
66	1486	1774	1299	1430	1577	1673	1264	1637	1649	1604	1277	1685	1558	1424	1328	1806	1486
67	1387	1678	1251	1372	1496	1593	1182	1548	1483	1527	1205	1585	1452	1357	1277	1705	1387
68	1289	1593	1205	1305	1410	1503	1112	1484	1327	1451	1139	1497	1364	1296	1229	1613	1289
69	1191	1505	1161	1251	1330	1414	1060	1412	1177	1386	1082	1406	1270	1237	1188	1530	1191
70	1111	1441	1123	1194	1251	1323	1007	1349	1049	1324	1035	1312	1197	1182	1143	1454	1111
71	1030	1379	1085	1142	1168	1237	970	1276	939	1262	991	1218	1121	1131	1100	1389	1030
72	961	1312	1049	1105	1082	1156	925	1209	840	1192	950	1133	1055	1086	1062	1317	961
73	898	1231	1025	1065	992	1076	898	1136	757	1122	919	1060	978	1048	1039	1245	898
74	839	1160	1007	1017	901	997	872	1066	681	1051	880	988	900	1010	1021	1167	839
75	793	1083	980	970	817	925	837	995	616	993	838	916	828	964	992	1092	793
76	747	1017	939	912	736	846	811	931	563	938	811	849	767	916	942	1025	747
77	706	950	876	846	667	772	777	880	517	881	771	793	704	854	879	967	706
78	662	881	802	784	610	701	733	833	473	834	725	729	638	798	798	906	662
79	630	820	713	716	548	638	689	769	451	784	669	670	588	730	718	836	630
80	594	750	623	634	494	575	617	707	437	714	591	602	527	653	631	773	594
81	547	670	544	551	429	503	543	640	421	652	511	532	469	571	552	687	547
82	482	600	467	451	363	428	458	568	413	576	429	438	394	469	474	612	482
83	419	518	384	363	284	341	374	491	401	499	353	352	322	365	401	539	419
84	359	436	305	257	200	257	285	399	376	415	273	260	239	278	329	448	359
85	290	345	223	171	136	176	201	320	331	323	211	179	162	190	251	360	290
86	227	251	140	109	88	111	141	241	266	238	137	113	106	122	160	257	227
87	153	142	66	69	52	68	88	150	196	158	84	64	64	68	91	161	153
88	76	58	22	36	29	31	47	75	115	76	43	33	36	47	43	68	76
89	19	23	23	24	22	24	20	33	40	25	21	25	13	28	28	24	19
90	14	19	21	16	15	9	18	14	14	16	20	19	18	20	20	13	14
91	14	13	14	16	13	14	14	10	16	19	11	18	14	13	16	9	14
92	16	16	15	18	14	13	12	14	14	18	13	15	12	13	9	12	16
93	12	17	12	14	10	13	16	9	14	17	16	15	11	15	10	16	12
94	14	18	12	14	14	13	11	11	14	16	15	16	10	14	11	15	14
95	15	18	12	15	15	10	11	11	16	12	16	10	13	12	15	13	15

96	17	18	14	14	11	15	14	14	13	15	15	12	15	12	12	15	17
97	14	17	18	16	9	11	13	12	13	12	11	12	13	12	15	16	14
98	13	18	13	14	12	12	10	13	11	15	10	12	15	13	9	11	13
99	14	14	15	11	8	8	10	13	12	14	13	11	10	10	0	10	14
100	15	17	14	16	14	10	13	12	15	14	16	14	13	11	14	9	15
101	14	15	14	16	12	8	8	8	11	16	12	15	10	14	11	10	14
102	14	15	13	15	12	14	13	10	15	15	12	14	10	9	12	12	14
103	14	14	12	18	11	10	11	11	8	18	15	14	14	13	12	15	14
104	15	16	19	15	12	11	9	12	9	12	12	13	8	10	13	13	15
105	11	16	14	16	12	8	11	15	12	16	8	14	14	12	13	12	11
106	17	17	11	14	13	9	12	12	9	13	17	15	11	12	9	14	17
107	17	16	16	15	12	8	12	14	11	15	14	11	16	11	10	13	17
108	14	11	12	18	11	11	13	15	12	16	16	11	13	14	13	13	14
109	16	17	17	18	0	9	10	10	10	13	15	11	12	11	13	17	16
110	16	15	15	15	8	14	17	8	16	15	12	14	15	14	13	18	16
111	12	20	8	20	10	11	11	14	14	16	12	14	10	15	16	16	12
112	15	18	13	12	9	12	9	14	12	16	12	11	11	14	12	15	15
113	16	16	13	16	10	12	15	17	12	18	8	12	9	14	13	16	16
114	14	15	15	13	12	10	11	0	16	20	15	10	12	16	12	17	14
115	15	16	9	11	13	13	16	11	11	14	13	14	13	11	13	18	15
116	17	19	16	10	10	9	14	12	13	16	14	14	13	12	15	15	17
117	15	20	11	10	13	11	11	10	14	16	15	11	11	18	13	13	15
118	14	20	15	8	12	12	8	12	13	15	14	11	11	17	13	17	14
119	19	15	19	14	13	10	15	13	14	18	18	13	12	13	13	16	19
120	17	18	14	16	13	13	16	11	14	16	18	11	9	12	16	15	17
121	19	16	14	15	15	12	15	13	11	18	19	14	9	14	15	14	19
122	15	14	14	21	13	12	17	18	14	17	15	14	10	13	14	15	15
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124	12	18	11	18	13	16	10	15	12	19	19	12	16	19	14	17	12
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Luminaire Report Summary

IESNA:LM-63-1995
[TEST] BLC2207035E-F
[ISSUE DATE] 2022/7/26 18:33
[MANUFAC] ASHART LIGHT CO., LTD
[LUMCAT] AST-PHB08E-165WBMB1A1-abdW40
[LUMINAIRE]
[LAMP CAT]
[LAMP]
[_VOLTAGE] 120.0 V
[_CURRENT] 1.330 A
[_POWERFACTOR] 0.998
[_THD] 2.26
[TESTLAB] UTEST TECHNICAL LABORATORY
[_TESTINST] GPM-3000
[_TESTDIST] 14.140 m [K=1.0000]
[_TESTTEMPERATURE] 24.8 'C
[_TESTHUMIDITY]
[_TESTOPERATOR]
[BALLAST]
[BALLASTCAT]
FILE: CANDELA MULTIPLIER: 1
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.