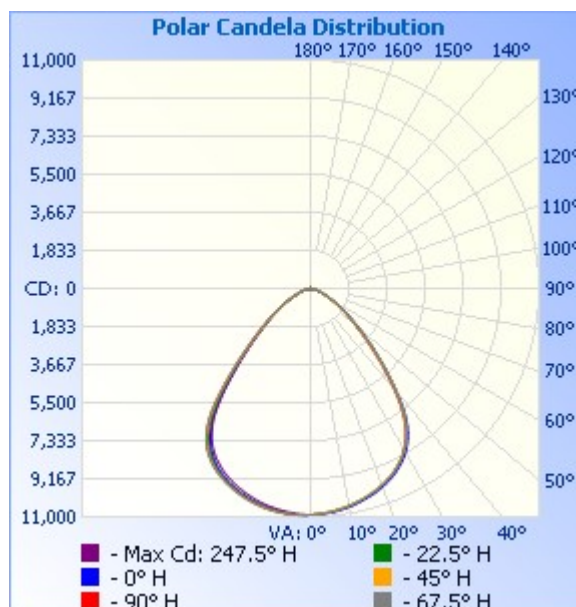


Photometrics Pro

Luminaire Photometric Report

Filename: AST-HB21-150WH1JT2A1-abcd-120V
Manufacturer: SMART LIGHT CO., LTD
Luminaire Cat: AST-HB21-150WH1JT2A-abc30
Lamp Output: 1 lamp, rated Lumens/lamp: 20641.2
Max Candela: 10,919.7 at Horizontal: 247.5°, Vertical: 3°
Input Wattage: 150.49
Luminous Opening: Circular (Dia: 8.27")
Test: BLC2211019E-B
Test Lab: UTEST TECHNICAL LABORATORY CO.LTD
Photometry : Type C
Nema Type: 6 X 6



Roadway Summary

Cutoff Classification:	CUTOFF
Distribution:	Type VS
Max Cd, 90 Deg Vert:	17.8
Max Cd, 80 to <90 Deg:	189.6
	Lumens % Lamp
Downward Street Side:	10,218.0 49.5%
Downward House Side:	10,321.2 50%
Downward Total:	20,539.2 99.5%
Upward Street Side:	51.8 0.3%
Upward House Side:	50.2 0.2%
Upward Total:	101.9 0.5%
Total Lumens:	20,641.2 100%

Flood Summary

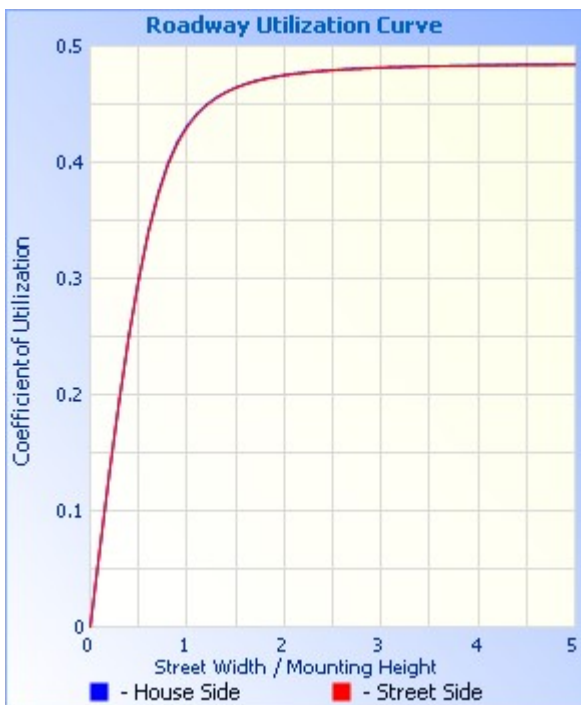
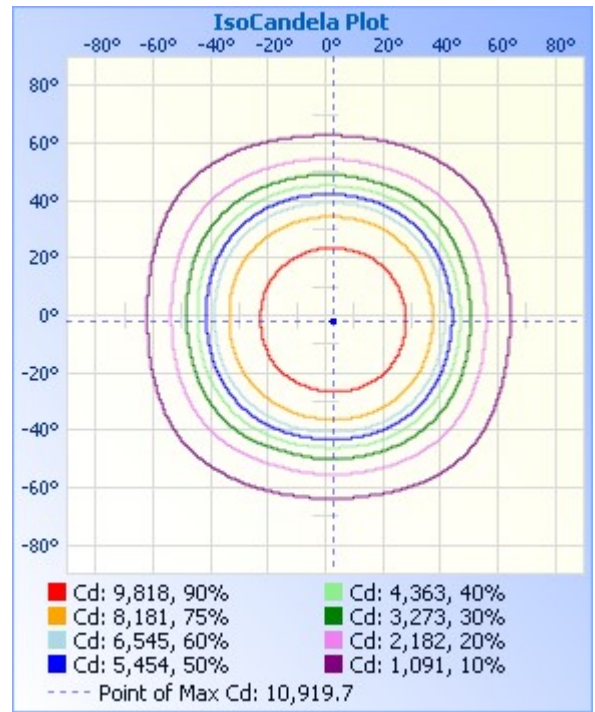
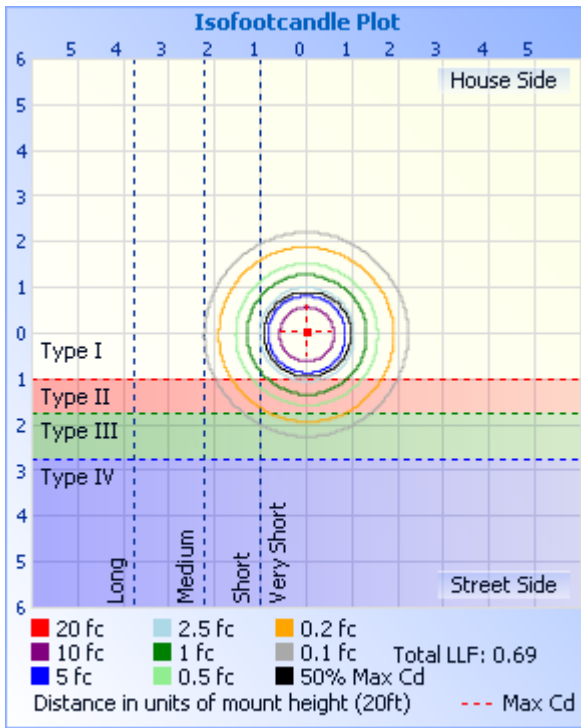
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.6%	19,533.4	126.4	126.5
Beam (50%):	71.7%	14,796.3	85.5	85.2
Total:	100%	20,633.2		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	8,525.7	41.3%	41.3%
0-40	13,627.4	66%	66%
0-60	19,172.5	92.9%	92.9%
60-90	1,363.6	6.6%	6.6%
70-100	450.9	2.2%	2.2%
90-120	33.0	0.2%	0.2%
0-90	20,536.1	99.5%	99.5%
90-180	101.9	0.5%	0.5%
0-180	20,638.0	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,031.8	5.0%	90-100	11.3	0.1%
10-20	2,969.7	14.4%	100-110	10.7	0.1%
20-30	4,524.2	21.9%	110-120	11.0	0.1%
30-40	5,101.8	24.7%	120-130	12.4	0.1%
40-50	3,597.9	17.4%	130-140	14.4	0.1%
50-60	1,947.2	9.4%	140-150	15.6	0.1%
60-70	924.1	4.5%	150-160	13.7	0.1%
70-80	366.0	1.8%	160-170	9.5	0%
80-90	73.5	0.4%	170-180	3.3	0%



Illuminance at a Distance

Center Beam fc	Beam Width	
37.7 fc	31.2 ft	31.4 ft
9.42 fc	62.5 ft	62.9 ft
4.19 fc	93.7 ft	94.3 ft
2.35 fc	125.0 ft	125.8 ft
1.51 fc	156.2 ft	157.2 ft
1.05 fc	187.5 ft	188.7 ft

Vert. Spread: 85.2°
 Horiz. Spread: 85.5°

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	1.11	1.06	1.06	1.06	1.06	1.02	1.02	1.02	1.02	.99
1	1.11	1.08	1.04	1.02	1.09	1.05	1.03	.89	1.01	.99	.97	.97	.97	.95	.94	.94	.94	.92	.91	.89	.89
2	1.04	.97	.92	.87	1.01	.95	.90	.80	.92	.88	.84	.84	.89	.85	.82	.82	.86	.83	.80	.78	.78
3	.96	.88	.81	.76	.94	.86	.80	.71	.83	.78	.74	.74	.81	.76	.73	.73	.78	.75	.71	.69	.69
4	.89	.80	.72	.67	.87	.78	.71	.63	.76	.70	.65	.65	.74	.69	.65	.65	.72	.67	.64	.62	.62
5	.83	.72	.65	.59	.81	.71	.64	.57	.69	.63	.58	.58	.67	.62	.58	.58	.66	.61	.57	.55	.55
6	.78	.66	.59	.53	.76	.65	.58	.51	.64	.57	.52	.52	.62	.56	.52	.52	.60	.55	.51	.50	.50
7	.73	.61	.53	.48	.71	.60	.53	.46	.58	.52	.47	.47	.57	.51	.47	.47	.56	.51	.47	.45	.45

8	.68	.56	.48	.43	.66	.55	.48	.42	.54	.48	.43	.53	.47	.43	.52	.46	.42	.41
9	.64	.52	.44	.40	.62	.51	.44	.39	.50	.44	.39	.49	.43	.39	.48	.43	.39	.37
10	.60	.48	.41	.36	.59	.48	.41	.36	.47	.40	.36	.46	.40	.36	.45	.40	.36	.34

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	10887	10887	10887	10887	10887	10887	10887	10887	10887	10887	10887	10887	10887	10887	10887	10887	10887
1	10889	10878	10862	10877	10872	10884	10880	10890	10908	10894	10893	10909	10897	10890	10889	10883	10889
2	10879	10864	10854	10863	10856	10870	10878	10888	10907	10906	10901	10911	10899	10893	10888	10877	10879
3	10863	10848	10830	10852	10836	10858	10866	10881	10909	10908	10910	10920	10909	10897	10890	10870	10863
4	10848	10824	10802	10827	10811	10843	10857	10871	10903	10905	10907	10916	10909	10887	10886	10855	10848
5	10831	10798	10781	10803	10791	10825	10841	10861	10894	10896	10904	10912	10904	10878	10876	10824	10831
6	10806	10761	10749	10770	10765	10794	10819	10846	10881	10896	10900	10906	10893	10872	10858	10808	10806
7	10779	10735	10718	10741	10727	10773	10794	10822	10866	10883	10885	10891	10877	10861	10835	10784	10779
8	10747	10702	10682	10705	10698	10746	10765	10800	10847	10863	10880	10878	10859	10838	10813	10758	10747
9	10714	10660	10646	10669	10662	10706	10738	10769	10822	10842	10857	10864	10843	10817	10776	10723	10714
10	10679	10621	10606	10626	10623	10668	10701	10738	10791	10816	10834	10837	10826	10795	10749	10694	10679
11	10641	10584	10563	10580	10580	10623	10668	10700	10767	10786	10808	10817	10800	10765	10717	10662	10641
12	10591	10530	10516	10534	10535	10584	10623	10666	10730	10752	10780	10791	10773	10723	10679	10618	10591
13	10545	10485	10467	10489	10487	10535	10584	10621	10689	10720	10751	10756	10738	10688	10634	10578	10545
14	10496	10429	10414	10433	10443	10488	10530	10579	10642	10686	10708	10727	10705	10647	10592	10529	10496
15	10444	10378	10355	10379	10389	10433	10489	10534	10598	10639	10672	10689	10665	10601	10543	10479	10444
16	10390	10326	10299	10318	10332	10380	10425	10477	10548	10600	10621	10642	10621	10550	10496	10418	10390
17	10340	10270	10247	10255	10271	10317	10372	10426	10495	10539	10576	10598	10574	10497	10442	10365	10340
18	10279	10210	10185	10194	10200	10254	10304	10369	10438	10484	10530	10552	10522	10449	10385	10306	10279
19	10213	10143	10117	10131	10130	10185	10243	10299	10382	10437	10473	10487	10450	10386	10327	10240	10213
20	10147	10069	10050	10061	10058	10117	10182	10238	10319	10376	10411	10436	10396	10332	10264	10181	10147
21	10071	9993	9975	9987	9981	10042	10109	10171	10257	10313	10350	10372	10333	10267	10200	10107	10071
22	10002	9917	9887	9907	9903	9962	10031	10095	10185	10244	10289	10309	10275	10207	10120	10034	10002
23	9915	9835	9810	9818	9821	9863	9952	10015	10110	10171	10221	10240	10202	10134	10047	9957	9915
24	9830	9738	9716	9734	9722	9776	9866	9927	10018	10097	10148	10170	10134	10072	9966	9874	9830
25	9732	9655	9619	9627	9622	9675	9771	9834	9935	10021	10069	10088	10058	9987	9883	9784	9732
26	9620	9547	9508	9521	9518	9575	9662	9733	9846	9924	9986	10007	9973	9901	9783	9695	9620
27	9520	9440	9398	9404	9398	9451	9540	9626	9749	9834	9892	9922	9886	9805	9681	9580	9520
28	9400	9312	9271	9290	9274	9329	9416	9512	9633	9732	9797	9829	9789	9695	9582	9466	9400
29	9272	9178	9149	9150	9122	9191	9281	9381	9508	9615	9690	9723	9678	9584	9459	9355	9272
30	9125	9022	9005	9007	8967	9032	9129	9223	9380	9489	9575	9599	9562	9470	9341	9223	9125
31	8977	8869	8844	8851	8798	8867	8965	9062	9235	9351	9449	9471	9436	9332	9194	9079	8977
32	8789	8695	8671	8668	8617	8666	8764	8894	9070	9201	9286	9332	9300	9187	9043	8913	8789
33	8589	8494	8470	8448	8414	8459	8558	8698	8863	9010	9125	9165	9142	9021	8875	8728	8589
34	8374	8277	8260	8248	8188	8228	8325	8486	8650	8817	8942	8988	8957	8833	8678	8514	8374
35	8132	8036	7992	7985	7903	7970	8065	8207	8404	8588	8730	8775	8751	8621	8442	8282	8132
36	7863	7752	7721	7718	7618	7687	7755	7928	8125	8323	8485	8506	8522	8379	8193	8025	7863
37	7554	7454	7428	7422	7306	7378	7456	7612	7807	8026	8186	8219	8244	8103	7906	7727	7554
38	7215	7091	7090	7082	6969	7014	7113	7266	7423	7653	7869	7898	7923	7742	7564	7356	7215
39	6812	6729	6720	6699	6559	6634	6736	6877	7029	7281	7500	7541	7559	7361	7159	6977	6812
40	6396	6346	6328	6309	6161	6227	6312	6417	6593	6867	7085	7126	7147	6938	6711	6566	6396
41	6036	5974	5952	5916	5776	5817	5891	5981	6127	6414	6633	6608	6657	6467	6261	6166	6036
42	5636	5582	5588	5575	5399	5428	5464	5568	5691	5975	6135	6133	6212	5995	5852	5740	5636
43	5303	5228	5190	5199	5052	5039	5121	5173	5284	5520	5697	5722	5731	5597	5431	5348	5303
44	4955	4872	4825	4883	4666	4702	4780	4753	4937	5155	5268	5332	5298	5200	5093	4971	4955
45	4600	4529	4471	4539	4325	4384	4430	4388	4581	4792	4829	4931	4942	4810	4690	4597	4600
46	4289	4207	4142	4203	4014	4061	4105	4047	4255	4432	4462	4564	4551	4452	4360	4236	4289
47	3993	3898	3836	3892	3730	3723	3784	3723	3959	4103	4105	4230	4178	4120	4042	3902	3993
48	3693	3586	3547	3626	3456	3453	3499	3432	3659	3775	3782	3927	3873	3782	3731	3601	3693
49	3437	3319	3260	3359	3174	3209	3242	3151	3408	3500	3495	3635	3588	3503	3420	3310	3437
50	3184	3069	3042	3106	2941	2987	2981	2921	3172	3248	3223	3331	3314	3250	3189	3076	3184

51	2957	2854	2827	2873	2727	2773	2757	2695	2949	2988	2992	3091	3064	3018	2920	2840	2957
52	2745	2650	2603	2679	2535	2567	2546	2515	2732	2772	2781	2871	2847	2808	2705	2640	2745
53	2558	2463	2401	2467	2360	2384	2353	2346	2549	2578	2573	2661	2619	2608	2506	2454	2558
54	2361	2280	2236	2279	2181	2208	2178	2169	2376	2384	2397	2466	2439	2429	2315	2275	2361
55	2185	2108	2070	2107	2017	2050	1995	2007	2199	2208	2210	2273	2271	2232	2137	2106	2185
56	2014	1964	1910	1954	1870	1895	1845	1875	2033	2032	2059	2103	2100	2080	1968	1945	2014
57	1849	1818	1775	1806	1724	1763	1715	1757	1871	1883	1913	1950	1951	1934	1825	1811	1849
58	1712	1685	1634	1643	1591	1631	1587	1632	1740	1750	1773	1783	1796	1795	1699	1669	1712
59	1586	1545	1512	1521	1475	1504	1468	1508	1608	1615	1645	1633	1652	1667	1581	1541	1586
60	1454	1415	1393	1398	1359	1381	1320	1396	1477	1486	1506	1507	1534	1532	1448	1430	1454
61	1329	1307	1272	1280	1256	1246	1200	1274	1370	1364	1384	1384	1416	1393	1308	1316	1329
62	1212	1195	1150	1165	1140	1126	1095	1148	1228	1242	1274	1257	1306	1287	1192	1196	1212
63	1098	1080	1048	1048	1041	1022	985	1049	1122	1128	1158	1155	1194	1164	1083	1093	1098
64	991	973	948	942	948	941	897	959	1027	1018	1039	1036	1076	1055	983	983	991
65	913	886	849	849	860	865	822	879	936	928	944	935	984	960	895	901	913
66	836	810	777	773	782	775	758	810	847	846	860	851	893	877	819	827	836
67	753	737	707	710	709	710	693	736	770	768	786	776	813	796	756	765	753
68	679	670	644	649	644	642	625	667	705	705	713	706	730	715	686	697	679
69	620	608	585	581	592	581	565	605	642	642	652	641	664	650	625	641	620
70	563	560	526	533	535	531	516	547	575	584	594	584	608	591	561	576	563
71	506	503	487	487	479	478	464	492	522	532	542	524	551	541	509	519	506
72	456	456	442	443	436	432	424	443	469	478	492	476	501	486	460	466	456
73	417	415	400	397	392	388	380	401	424	422	441	435	455	439	412	419	417
74	376	372	362	363	353	347	347	366	382	385	398	392	405	396	381	390	376
75	339	340	327	320	314	318	311	328	344	349	363	355	369	356	342	350	339
76	306	305	288	292	281	285	282	294	308	315	327	316	328	323	308	315	306
77	269	268	258	261	244	249	251	260	267	279	293	282	296	285	273	277	269
78	232	235	229	224	211	210	214	227	233	242	251	251	260	253	245	241	232
79	203	203	199	191	175	180	183	191	197	207	217	216	220	217	210	211	203
80	173	169	165	162	151	149	156	153	167	174	185	178	190	185	182	177	173
81	144	137	138	136	123	123	127	129	138	144	148	154	155	156	155	148	144
82	120	115	113	111	102	99	104	106	112	119	126	127	126	128	125	123	120
83	95	92	90	91	78	77	80	88	88	96	100	102	103	105	99	103	95
84	74	71	73	74	62	57	63	62	66	69	79	78	84	82	85	80	74
85	59	54	61	56	51	43	47	48	39	49	49	66	59	65	67	63	59
86	39	46	45	41	36	37	31	34	38	37	43	42	53	48	51	49	39
87	33	34	32	21	25	21	26	25	25	27	29	39	37	41	38	39	33
88	24	25	23	19	11	12	19	14	9	20	21	26	23	26	27	25	24
89	15	16	17	17	14	12	14	11	9	15	15	15	15	15	15	13	15
90	12	13	18	8	8	9	11	12	12	15	14	11	11	16	14	16	12
91	13	12	16	13	8	10	12	11	13	10	16	11	12	13	14	16	13
92	11	10	13	11	9	10	8	11	8	13	10	10	0	11	13	10	11
93	11	9	13	11	0	12	11	14	10	14	11	9	0	10	12	13	11
94	9	10	10	13	8	11	13	14	7	9	12	10	0	10	13	15	9
95	9	8	12	14	0	8	12	11	0	14	11	13	0	10	10	9	9
96	11	15	13	12	0	9	11	12	12	14	11	13	9	12	13	14	11
97	14	14	11	13	0	10	10	8	13	12	13	12	7	7	12	11	14
98	10	12	8	9	7	8	10	12	11	11	13	12	0	12	10	9	10
99	10	11	10	10	9	0	12	13	8	10	11	11	0	9	11	11	10
100	9	12	10	9	8	7	9	9	11	14	13	12	0	10	12	10	9
101	8	12	10	12	0	11	8	12	0	9	12	11	0	10	10	13	8
102	12	12	14	11	9	9	11	12	12	11	10	13	7	12	13	12	12
103	10	9	12	11	9	0	9	10	10	12	12	13	8	12	11	11	10
104																	

	10	13	14	13	9	7	9	13	12	14	13	13	9	11	12	13	10
105	10	10	13	12	9	10	11	12	7	13	9	15	0	12	11	11	10
106	9	11	14	14	10	8	8	14	10	0	11	10	0	10	14	10	9
107	10	11	11	11	9	0	11	8	9	12	12	9	8	7	11	17	10
108	10	7	15	10	7	9	8	12	7	12	12	12	0	10	10	11	10
109	12	12	11	11	8	8	10	11	9	12	11	12	7	0	14	0	12
110	10	13	11	16	9	0	10	11	13	13	11	9	10	11	11	13	10
111	11	9	10	12	8	0	10	11	11	13	7	12	7	10	12	9	11
112	12	13	13	13	10	8	12	12	11	9	9	9	0	11	12	12	12
113	11	8	13	11	9	7	12	12	10	13	13	10	8	9	13	8	11
114	11	10	12	13	8	0	10	11	9	10	12	12	0	9	13	13	11
115	9	14	11	9	7	9	10	14	12	13	11	9	0	14	12	14	9
116	14	10	15	15	7	13	9	14	11	14	13	13	8	12	15	15	14
117	13	11	12	16	9	7	13	13	11	13	15	12	10	13	10	10	13
118	13	14	16	15	7	9	8	10	13	10	18	15	12	10	14	10	13
119	12	11	13	13	11	12	11	12	13	12	18	15	8	13	13	13	12
120	13	14	12	12	11	0	12	11	7	12	12	14	9	13	10	12	13
121	12	14	13	14	11	8	10	11	15	10	18	12	9	11	15	13	12
122	13	13	13	17	11	8	12	13	14	12	13	13	9	11	10	12	13
123	16	18	16	15	10	10	12	13	15	17	15	14	9	9	15	15	16
124	16	17	15	18	11	13	14	10	14	19	16	14	10	15	17	15	16
125	19	15	13	18	11	11	15	17	12	16	14	17	8	12	12	17	19
126	16	15	19	12	14	12	18	13	13	14	17	17	10	12	13	15	16
127	15	13	13	10	12	9	13	16	16	17	17	17	11	13	13	10	15
128	19	16	18	11	13	12	19	15	16	16	18	17	11	16	12	15	19
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Luminaire Report Summary

IESNA:LM-63-2002
[TEST] BLC2211019E-B
[ISSUEDATE] 2022/12/09
[MANUFAC] ASMART LIGHT CO., LTD
[LUMCAT] AST-HB21-150WH1JT2A-abc30
[LUMINAIRE]
[LAMPCAT]
[LAMP]
[_VOLTAGE] 120.0 V
[_CURRENT] 1.263 A
[_POWERFACTOR] 0.993
[_THD] 8.27
[TESTLAB] UTEST TECHNICAL LABORATORY CO.LTD
[_TESTINST] GPM-3000
[_TESTDIST] 14.140 m [K=1.0000]
[_TESTTEMPERATURE] 25.5 '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.