

Photometrics Pro

Luminaire Photometric Report

Filename: HB18B High Wattage

Manufacturer: SMART LIGHT CO., LTD

Luminaire Cat: AST-HB18B-240WL1B1T2A1-abc35WD

Lamp Output: 1 lamp, rated Lumens/lamp: 32298.2

Max Candela: 15,926.5 at Horizontal: 247.5°, Vertical: 10°

Input Wattage: 240.58

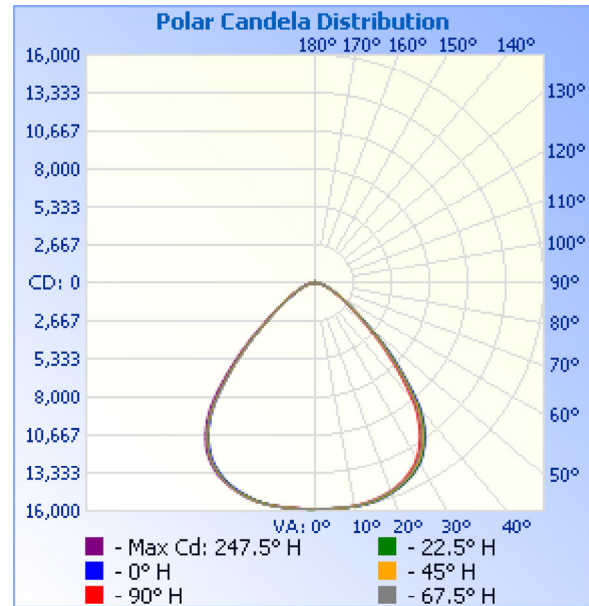
Luminous Opening: Circular (Dia: 10.75")

Test: BLC2209005E-D

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:	14.1
Max Cd, 80 to <90 Deg:	281.0
	Lumens % Lamp
Downward Street Side:	16,291.7 50.4%
Downward House Side:	15,905.6 49.2%
Downward Total:	32,197.3 99.7%
Upward Street Side:	51.9 0.2%
Upward House Side:	49.0 0.2%
Upward Total:	100.9 0.3%
Total Lumens:	32,298.2 100%

Flood Summary

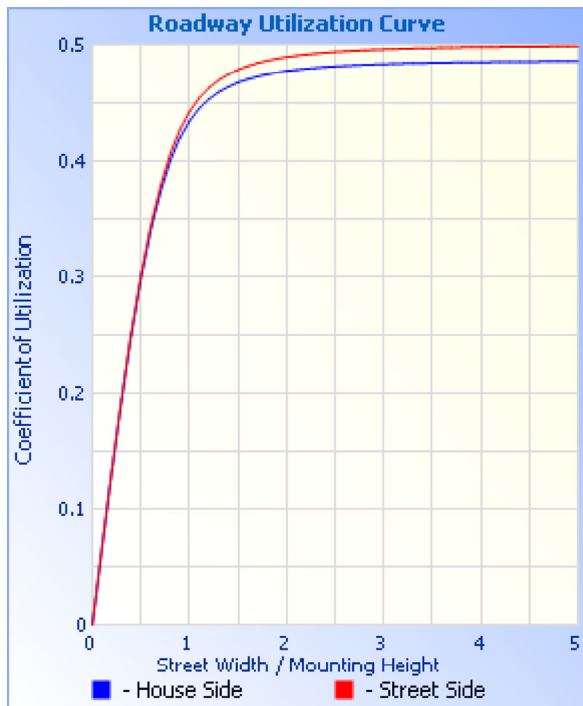
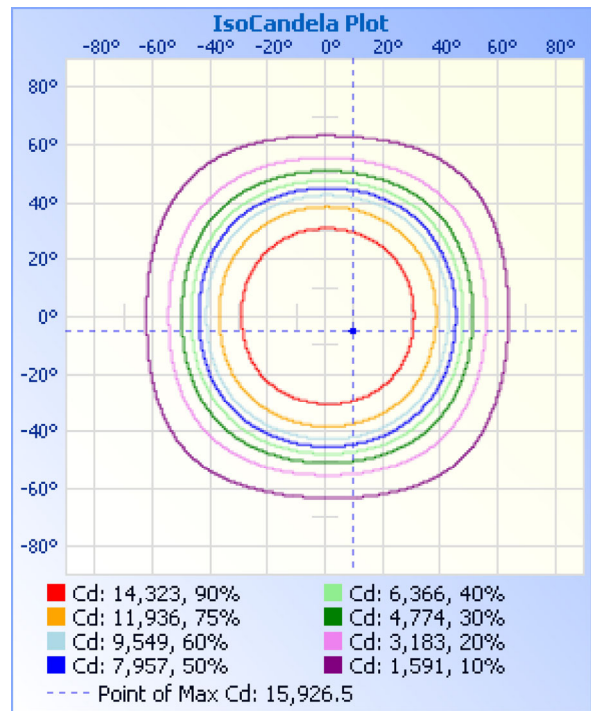
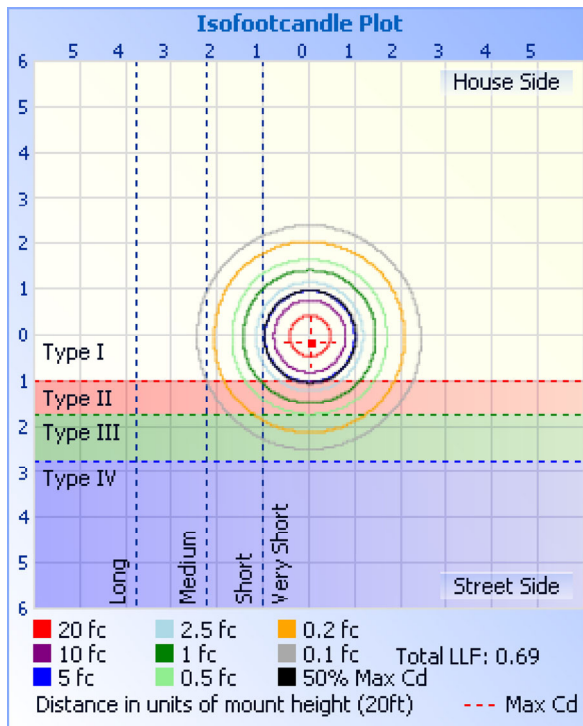
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.1%	30,724.9	125.6	125.8
Beam (50%):	75.8%	24,469.7	88.7	88.4
Total:	100%	32,285.8		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	12,967.8	40.2%	40.2%
0-40	21,077.0	65.3%	65.3%
0-60	30,159.9	93.4%	93.4%
60-90	2,032.7	6.3%	6.3%
70-100	651.9	2%	2%
90-120	23.2	0.1%	0.1%
0-90	32,192.6	99.7%	99.7%
90-180	100.8	0.3%	0.3%
0-180	32,293.5	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,515.8	4.7%	90-100	7.9	0%
10-20	4,472.3	13.8%	100-110	7.0	0%
20-30	6,979.7	21.6%	110-120	8.3	0%
30-40	8,109.2	25.1%	120-130	10.8	0%
40-50	6,067.4	18.8%	130-140	15.2	0%
50-60	3,015.5	9.3%	140-150	18.5	0.1%
60-70	1,388.7	4.3%	150-160	17.0	0.1%
70-80	545.8	1.7%	160-170	11.9	0%
80-90	98.2	0.3%	170-180	4.2	0%



Illuminance at a Distance

	Center Beam fc	Beam Width	
4.3R	858 fc	8.4 ft	8.4 ft
8.7R	209 fc	16.9 ft	17.0 ft
13.0R	93.8 fc	25.3 ft	25.4 ft
17.3R	53.0 fc	33.7 ft	33.8 ft
21.7R	33.7 fc	42.2 ft	42.4 ft
26.0R	23.5 fc	50.6 ft	50.9 ft

■ Vert. Spread: 88.4°
 ■ Horiz. Spread: 88.7°

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	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.11	1.08	1.04	1.02	1.09	1.06	1.03	.90	1.01	.99	.97	.97	.96	.94	.94	.92	.91	.89
2	1.04	.97	.92	.87	1.01	.95	.90	.80	.92	.88	.84	.89	.85	.82	.86	.83	.80	.79
3	.96	.88	.81	.76	.94	.86	.80	.71	.83	.78	.74	.81	.76	.73	.78	.74	.71	.69

4	.89	.79	.72	.67	.87	.78	.71	.63	.76	.70	.65	.74	.68	.64	.71	.67	.64	.62
5	.83	.72	.65	.59	.81	.71	.64	.57	.69	.63	.58	.67	.62	.57	.65	.61	.57	.55
6	.77	.66	.58	.53	.76	.65	.58	.51	.63	.57	.52	.62	.56	.52	.60	.55	.51	.49
7	.72	.60	.53	.47	.71	.60	.52	.46	.58	.52	.47	.57	.51	.47	.55	.50	.46	.44
8	.68	.56	.48	.43	.66	.55	.48	.42	.54	.47	.42	.52	.47	.42	.51	.46	.42	.40
9	.63	.51	.44	.39	.62	.51	.44	.38	.50	.43	.39	.49	.43	.39	.48	.42	.38	.37
10	.60	.48	.40	.36	.58	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.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	15856	15856	15856	15856	15856	15856	15856	15856	15856	15856	15856	15856	15856	15856	15856	15856	15856
1	15861	15857	15859	15846	15859	15859	15862	15845	15855	15868	15855	15880	15848	15851	15851	15855	15861
2	15858	15856	15856	15850	15860	15864	15867	15845	15861	15864	15855	15875	15855	15860	15861	15852	15858
3	15864	15864	15865	15856	15871	15866	15874	15856	15868	15876	15856	15861	15856	15860	15861	15854	15864
4	15873	15868	15866	15850	15872	15868	15876	15855	15877	15868	15865	15869	15857	15872	15855	15854	15873
5	15877	15872	15869	15861	15874	15871	15878	15871	15877	15868	15866	15883	15863	15866	15857	15858	15877
6	15887	15885	15878	15867	15873	15875	15894	15869	15883	15873	15871	15885	15872	15884	15862	15860	15887
7	15900	15897	15879	15861	15872	15884	15902	15884	15891	15876	15880	15905	15879	15885	15865	15863	15900
8	15897	15907	15894	15869	15871	15880	15891	15892	15900	15887	15893	15900	15881	15905	15873	15870	15897
9	15903	15909	15890	15866	15871	15875	15898	15884	15898	15894	15892	15915	15886	15905	15872	15866	15903
10	15904	15911	15877	15867	15861	15873	15890	15870	15891	15886	15904	15927	15895	15906	15873	15880	15904
11	15909	15906	15879	15862	15852	15863	15887	15865	15881	15880	15902	15918	15892	15906	15869	15880	15909
12	15913	15909	15876	15850	15835	15847	15866	15850	15868	15869	15904	15918	15885	15906	15863	15884	15913
13	15906	15895	15853	15823	15810	15824	15850	15835	15855	15855	15892	15911	15869	15906	15860	15877	15906
14	15899	15880	15834	15811	15778	15795	15821	15805	15832	15835	15870	15881	15850	15886	15859	15880	15899
15	15878	15866	15814	15784	15762	15757	15788	15769	15795	15806	15849	15878	15842	15862	15846	15870	15878
16	15856	15836	15782	15726	15718	15719	15747	15724	15756	15765	15816	15847	15808	15851	15825	15846	15856
17	15821	15799	15735	15683	15672	15689	15697	15680	15701	15735	15772	15807	15778	15817	15792	15801	15821
18	15777	15759	15686	15635	15619	15642	15649	15620	15650	15685	15723	15774	15740	15781	15756	15770	15777
19	15730	15710	15639	15590	15564	15589	15592	15563	15594	15649	15677	15715	15678	15722	15712	15720	15730
20	15674	15647	15590	15532	15493	15527	15526	15499	15534	15593	15623	15645	15619	15656	15650	15663	15674
21	15600	15577	15516	15463	15430	15451	15459	15431	15469	15533	15572	15567	15539	15578	15579	15597	15600
22	15529	15509	15451	15400	15344	15367	15386	15357	15389	15450	15507	15499	15458	15507	15510	15529	15529
23	15464	15440	15360	15320	15244	15278	15286	15279	15309	15368	15423	15416	15363	15423	15438	15448	15464
24	15381	15361	15279	15240	15139	15179	15185	15177	15214	15266	15334	15320	15276	15335	15361	15357	15381
25	15293	15259	15172	15127	15024	15051	15071	15075	15106	15160	15212	15222	15175	15237	15275	15272	15293
26	15186	15164	15060	14998	14884	14936	14958	14954	14969	15026	15090	15103	15058	15118	15166	15177	15186
27	15072	15044	14924	14860	14739	14794	14803	14824	14829	14888	14948	14978	14925	15008	15043	15060	15072
28	14939	14909	14798	14706	14577	14632	14644	14675	14676	14739	14794	14825	14777	14883	14898	14920	14939
29	14786	14750	14623	14529	14395	14461	14474	14481	14508	14589	14636	14663	14612	14709	14744	14768	14786
30	14622	14576	14455	14336	14191	14233	14281	14280	14320	14405	14443	14473	14428	14544	14564	14575	14622
31	14428	14377	14247	14120	13971	14013	14059	14066	14115	14207	14235	14241	14208	14307	14374	14374	14428
32	14179	14123	14020	13898	13698	13768	13822	13833	13866	13961	14011	14012	13986	14084	14164	14166	14179
33	13933	13870	13762	13622	13421	13479	13524	13570	13612	13707	13744	13754	13737	13835	13899	13948	13933
34	13665	13590	13469	13321	13118	13189	13225	13267	13333	13430	13469	13482	13470	13551	13653	13660	13665
35	13376	13294	13158	12999	12788	12811	12896	12932	13012	13117	13160	13170	13175	13276	13324	13364	13376
36	13035	12983	12794	12651	12395	12450	12542	12578	12682	12785	12805	12808	12836	12958	13003	13034	13035
37	12698	12607	12429	12272	12000	12061	12143	12191	12267	12372	12426	12441	12477	12626	12650	12672	12698
38	12319	12222	12023	11857	11576	11647	11666	11719	11856	11963	12003	12025	12065	12245	12277	12287	12319
39	11852	11758	11562	11356	11074	11162	11182	11222	11373	11490	11513	11528	11589	11791	11849	11854	11852
40	11408	11222	11033	10836	10529	10581	10632	10684	10843	10958	10981	10969	11062	11249	11359	11381	11408
41	10829	10638	10439	10279	9941	9976	10031	10088	10254	10367	10325	10314	10514	10652	10742	10797	10829
42	10209	10009	9834	9639	9320	9341	9392	9472	9644	9734	9689	9704	9875	10040	10144	10213	10209
43	9524	9372	9202	8972	8654	8721	8747	8790	8971	9048	9051	9104	9282	9354	9518	9550	9524
44	8881	8735	8556	8369	8035	8029	8116	8194	8362	8434	8442	8492	8659	8724	8844	8918	8881
45	8273	8093	7911	7735	7390	7427	7496	7579	7750	7809	7755	7828	8023	8082	8194	8278	8273
46	7668	7509	7241	7116	6820	6838	6898	6982	7142	7136	7170	7221	7394	7474	7548	7620	7668

47	7071	6899	6684	6539	6281	6312	6336	6407	6508	6567	6609	6643	6810	6912	6975	7043	7071
48	6447	6380	6118	5993	5759	5810	5756	5813	5966	6026	6074	6098	6203	6335	6384	6421	6447
49	5904	5825	5620	5483	5286	5296	5281	5316	5463	5514	5564	5595	5689	5816	5860	5898	5904
50	5389	5346	5186	5026	4814	4864	4832	4872	4947	5002	5051	5086	5199	5327	5345	5400	5389
51	4926	4891	4694	4607	4417	4451	4409	4454	4511	4550	4621	4652	4738	4857	4866	4903	4926
52	4508	4455	4308	4227	4061	4087	4005	4088	4125	4154	4229	4289	4342	4453	4446	4432	4508
53	4132	4068	3964	3879	3717	3756	3677	3707	3753	3793	3875	3922	4001	4095	4076	4050	4132
54	3748	3728	3653	3533	3405	3435	3391	3400	3427	3482	3578	3601	3654	3772	3698	3713	3748
55	3430	3428	3335	3242	3091	3168	3122	3114	3110	3174	3278	3281	3356	3442	3398	3402	3430
56	3147	3145	3093	2975	2832	2922	2863	2853	2852	2921	3035	3013	3070	3184	3123	3109	3147
57	2883	2894	2827	2736	2595	2686	2633	2598	2618	2687	2805	2770	2812	2908	2888	2855	2883
58	2622	2643	2604	2486	2369	2462	2429	2375	2390	2471	2590	2544	2580	2676	2666	2603	2622
59	2398	2431	2391	2278	2168	2245	2232	2178	2190	2282	2374	2314	2361	2462	2458	2398	2398
60	2196	2237	2200	2089	1962	2053	2053	1991	1999	2098	2183	2117	2140	2261	2271	2211	2196
61	2004	2041	2021	1912	1801	1883	1871	1824	1819	1920	2014	1943	1948	2074	2077	2030	2004
62	1838	1882	1843	1752	1655	1709	1717	1655	1680	1767	1846	1785	1782	1884	1914	1861	1838
63	1676	1714	1692	1596	1507	1561	1569	1519	1549	1618	1677	1623	1637	1729	1753	1693	1676
64	1540	1554	1551	1470	1389	1424	1426	1398	1432	1475	1528	1494	1492	1582	1590	1556	1540
65	1419	1411	1400	1352	1283	1296	1292	1280	1311	1332	1392	1374	1379	1436	1451	1431	1419
66	1307	1291	1274	1242	1173	1177	1160	1175	1210	1210	1257	1257	1274	1305	1317	1310	1307
67	1200	1169	1153	1142	1084	1068	1049	1067	1113	1097	1138	1163	1181	1187	1189	1198	1200
68	1094	1051	1041	1054	987	961	948	980	1022	1002	1015	1062	1084	1074	1072	1107	1094
69	1006	959	945	961	907	872	852	892	933	898	918	970	997	978	969	1006	1006
70	911	854	850	879	827	793	767	818	851	816	821	890	908	879	871	923	911
71	831	775	765	801	754	706	694	737	773	736	743	813	830	799	782	839	831
72	757	698	692	728	681	636	619	668	702	661	658	727	757	721	707	764	757
73	684	626	614	662	607	571	561	599	627	591	593	655	689	646	635	685	684
74	615	557	559	592	543	509	495	535	562	529	533	589	618	582	569	616	615
75	547	504	491	528	489	448	444	473	505	471	469	523	551	517	509	555	547
76	484	439	431	463	427	393	394	420	444	415	417	462	483	451	451	490	484
77	423	387	383	412	377	347	352	370	391	372	370	405	423	404	398	425	423
78	374	342	336	361	324	300	301	331	336	315	320	358	376	357	352	378	374
79	323	294	287	312	274	255	257	276	289	269	278	310	322	308	308	325	323
80	281	256	243	265	233	214	218	235	247	231	240	265	280	261	261	276	281
81	238	213	205	223	191	179	181	201	206	190	201	219	235	220	224	237	238
82	192	177	171	186	149	146	148	162	164	159	165	185	191	179	187	194	192
83	151	141	138	145	117	114	116	125	128	125	131	148	152	146	150	159	151
84	118	109	105	113	84	76	86	91	94	95	103	111	112	115	117	121	118
85	81	71	69	75	54	49	49	59	59	67	66	74	82	85	88	85	81
86	53	51	42	47	20	28	28	35	30	40	40	43	56	59	58	56	53
87	20	26	20	24	0	12	16	14	16	19	23	29	20	21	25	26	20
88	11	11	16	18	0	10	8	11	9	7	13	10	8	15	18	18	11
89	10	0	11	14	0	7	12	11	0	13	12	8	0	10	7	11	10
90	10	11	8	14	0	0	9	8	10	11	10	14	0	11	10	11	10
91	11	8	9	14	0	7	9	0	9	9	8	11	0	0	11	9	11
92	8	10	8	15	0	0	0	11	10	9	10	10	0	0	9	10	8
93	9	13	10	14	0	0	9	10	9	10	9	12	0	10	10	11	9
94	10	10	11	11	0	0	9	9	9	11	12	9	0	8	11	9	10
95	10	0	13	13	0	0	0	8	8	8	7	10	0	8	10	10	10

96	11	7	10	14	0	0	7	7	0	10	13	11	0	8	10	7	11
97	7	12	11	12	0	0	0	12	8	0	12	11	0	7	8	12	7
98	10	10	8	10	0	0	7	9	8	12	9	10	0	0	0	9	10
99	7	8	10	13	0	0	0	9	10	11	11	10	0	0	8	10	7
100	8	8	10	14	0	0	0	8	10	10	13	13	0	8	9	0	8
101	11	12	0	14	0	0	7	10	11	9	10	13	0	7	11	8	11
102	7	10	9	13	0	0	0	9	0	12	12	13	0	0	9	0	7
103	10	13	0	12	0	0	9	10	0	12	9	9	0	7	7	11	10
104	11	11	9	11	0	0	10	10	9	10	12	8	0	0	12	10	11
105	0	10	10	14	0	0	0	8	0	0	0	12	0	9	10	9	0
106	10	11	8	8	0	0	0	0	0	10	13	0	0	0	0	13	10
107	0	9	0	10	0	0	0	11	8	7	12	8	0	0	10	11	0
108	9	10	12	16	0	0	7	10	8	12	0	12	0	0	9	10	9
109	10	12	10	15	0	0	9	10	8	14	10	10	0	0	11	9	10
110	10	12	11	17	0	0	8	9	7	11	10	9	0	8	7	11	10
111	10	14	0	13	0	0	0	9	10	9	12	12	0	0	8	10	10
112	10	14	10	14	0	0	0	10	9	12	11	11	0	9	13	11	10
113	7	13	10	17	0	0	9	8	11	10	12	8	0	9	10	11	7
114	13	9	11	10	0	8	0	10	8	13	11	12	0	8	0	11	13
115	12	9	0	18	0	0	7	9	0	14	11	8	0	9	10	12	12
116	0	12	11	14	0	0	13	14	8	10	9	14	0	9	9	11	0
117	8	9	12	16	0	0	0	8	11	12	9	14	0	10	14	9	8
118	8	12	12	17	0	10	0	13	0	12	13	13	0	12	11	11	8
119	8	11	9	16	0	0	12	13	10	14	10	15	0	10	12	15	8
120	11	11	11	18	0	8	9	12	11	16	10	12	0	10	15	15	11
121	10	12	12	13	0	8	10	15	11	13	9	11	0	9	13	13	10
122	14	12	12	16	0	7	8	13	13	14	12	14	0	10	11	11	14
123	14	14	9	14	0	11	12	13	10	15	13	15	0	10	16	10	14
124	9	13	15	16	0	12	11	13	10	14	16	13	0	10	13	8	9
125	10	10	15	20	0	9	15	10	14	17	13	17	0	0	11	18	10
126	12	12	13	17	0	9	10	11	18	15	19	14	11	14	17	13	12
127	14	14	15	17	0	7	14	16	11	18	16	18	0	14	14	16	14
128	15	17	16	20	8	10	12	17	15	17	14	16	11	13	16	18	15
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166	38	47	47	51	35	41	40	36	45	44	49	34	30	45	39	46	38
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169	45	41	49	52	33	42	50	40	45	43	38	49	39	49	40	46	45
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176	37	48	48	48	34	38	40	40	49	52	49	52	37	45	45	51	37
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178	40	45	44	48	39	34	45	45	41	44	43	48	38	45	49	43	40
179	44	35	48	47	32	40	44	47	50	42	47	49	34	41	45	43	44
180	43	50	46	49	26	36	37	43	50	49	49	46	41	45	37	41	43

Luminaire Report Summary

IESNA:LM-63-2002
[TEST] BLC2209005E-D
[ISSUEDATE] 2022/9/27 09:38
[MANUFAC] ASHART LIGHT CO., LTD
[LUMCAT] AST-HB18B-240WL1B1T2A1-abc35WD
[LUMINAIRE]
[LAMPCAT]
[LAMP]
[_VOLTAGE] 120.0 V
[_CURRENT] 2.007 A
[_POWERFACTOR] 0.998
[_THD] 2.07
[TESTLAB] UTEST TECHNICAL LABORATORY CO.LTD
[_TESTINST] GPM-3000
[_TESTDIST] 14.140 m [K=1.0000]
[_TESTTEMPERATURE] 25.6 '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.