

Photometrics Pro

Luminaire Photometric Report

Filename: SP06 400W

Manufacturer: ASmart LIGHT CO., LTD

Luminaire Cat: AST-SP06-400T2PS3A1-acdf40

Lamp Output: 1 lamp, rated Lumens/lamp: 57865.6

Max Candela: 160,125.8 at Horizontal: 67.5°, Vertical: 1°

Input Wattage: 406.97

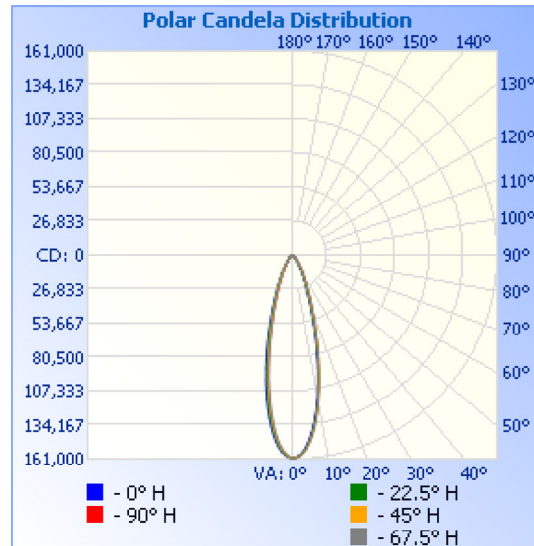
Luminous Opening: Circular (Dia: 13.31")

Test: BLC2203044E-G

Test Lab: UTEST TECHNICAL LABORATORY

Photometry : Type C

Nema Type: 4 X 4

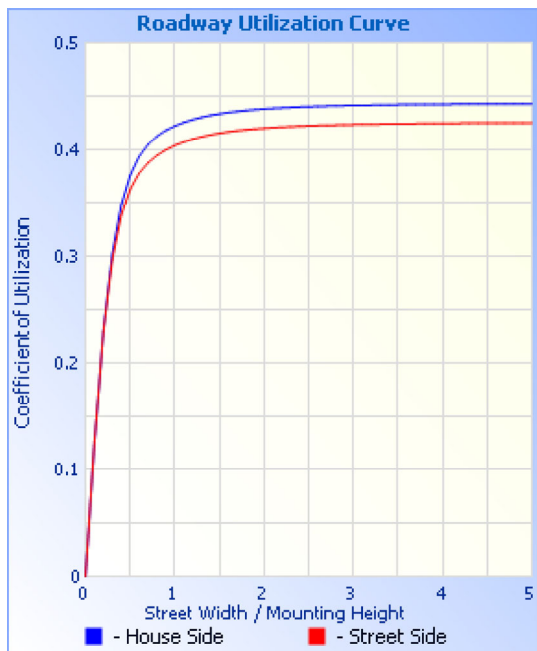
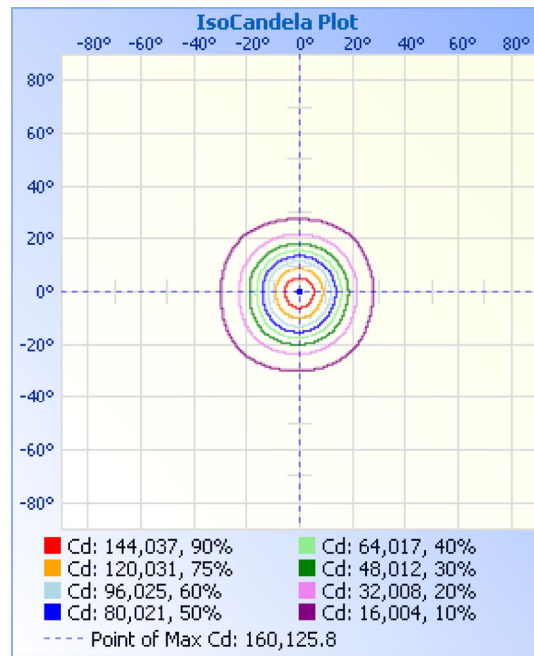
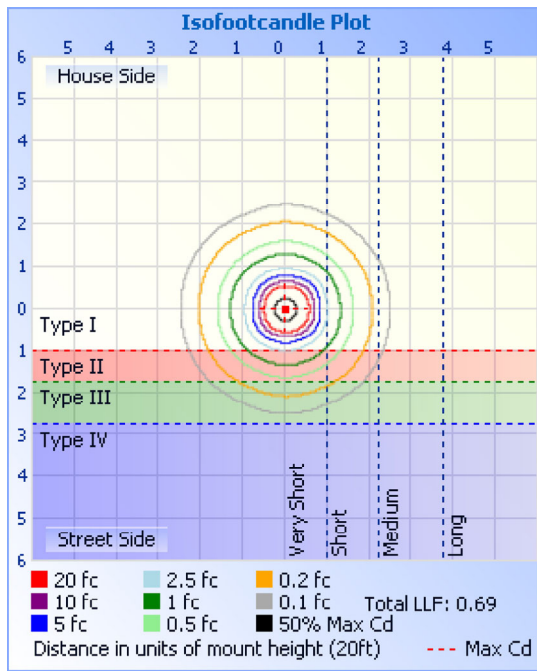


Roadway Summary		
Cutoff Classification:	FULL CUTOFF	
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	0	
Max Cd, 80 to <90 Deg:	335.6	
	Lumens	% Lamp
Downward Street Side:	28,429.7	49.1%
Downward House Side:	29,435.9	50.9%
Downward Total:	57,865.6	100%
Upward Street Side:	0	0%
Upward House Side:	0	0%
Upward Total:	0	0%
Total Lumens:	57,865.6	100%

Flood Summary				
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	76.1%	44,047.5	57.3	57.3
Beam (50%):	38.1%	22,039.2	27.7	28.6
Total:	100%	57,877.0		

Zonal Lumen Summary			
Zone	Lumens	% Lamp	% Luminaire
0-30	44,597.5	77.1%	77.1%
0-40	50,356.1	87%	87.1%
0-60	55,694.6	96.2%	96.3%
60-90	2,134.5	3.7%	3.7%
70-100	782.8	1.4%	1.4%
90-120	0	0%	0%
0-90	57,829.1	99.9%	100%
90-180	0	0%	0%
0-180	57,829.1	99.9%	100%

Lumens Per Zone						
Zone	Lumens	% Total	Zone	Lumens	% Total	
0-10	12,907.1	22.3%	90-100	0	0%	
10-20	20,067.3	34.7%	100-110	0	0%	
20-30	11,623.1	20.1%	110-120	0	0%	
30-40	5,758.6	10.0%	120-130	0	0%	
40-50	3,202.3	5.5%	130-140	0	0%	
50-60	2,136.1	3.7%	140-150	0	0%	
60-70	1,351.7	2.3%	150-160	0	0%	
70-80	671.8	1.2%	160-170	0	0%	
80-90	111.0	0.2%	170-180	0	0%	



Illuminance at a Distance

	Center Beam fc	Beam Width	
16.7ft	574 fc	8.5 ft	8.2 ft
33.3ft	144 fc	17.0 ft	16.4 ft
50.0ft	64.0 fc	25.5 ft	24.7 ft
66.7ft	36.0 fc	34.0 ft	32.9 ft
83.3ft	23.1 fc	42.5 ft	41.1 ft
100.0ft	16.0 fc	51.0 ft	49.4 ft

■ Vert. Spread: 28.6°
■ Horiz. Spread: 27.7°

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	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	1.13	1.11	1.08	1.06	1.11	1.09	1.06	.94	1.05	1.03	1.01	1.01	.99	.98	.97	.96	.95	.94						
2	1.08	1.03	.99	.96	1.06	1.02	.98	.88	.98	.96	.93	.95	.93	.91	.93	.91	.89	.87						
3	1.03	.97	.92	.88	1.01	.96	.91	.83	.93	.89	.86	.91	.88	.85	.88	.86	.84	.82						
4	.99	.91	.86	.82	.97	.90	.85	.78	.88	.84	.81	.86	.83	.80	.84	.81	.79	.77						
5	.94	.86	.81	.77	.93	.86	.81	.74	.84	.79	.76	.82	.78	.75	.81	.77	.75	.73						
6	.90	.82	.77	.73	.89	.81	.76	.71	.80	.75	.72	.79	.75	.71	.77	.74	.71	.70						
7	.87	.78	.73	.69	.85	.78	.72	.68	.76	.72	.68	.75	.71	.68	.74	.71	.68	.66						

8	.83	.75	.69	.66	.82	.74	.69	.65	.73	.69	.65	.72	.68	.65	.71	.68	.65	.64
9	.80	.72	.66	.63	.79	.71	.66	.62	.70	.66	.62	.69	.65	.62	.69	.65	.62	.61
10	.77	.69	.64	.60	.77	.68	.63	.60	.68	.63	.60	.67	.63	.60	.66	.62	.60	.58

51	2959	2920	2943	2930	2718	2802	3006	2891	2856	2875	2950	2884	2794	2872	2949	2840	2959
52	2754	2726	2834	2755	2623	2662	2789	2750	2689	2746	2859	2742	2642	2713	2764	2725	2754
53	2651	2629	2711	2638	2477	2535	2681	2603	2638	2571	2737	2619	2566	2592	2687	2597	2651
54	2516	2500	2569	2489	2376	2420	2527	2475	2465	2507	2621	2541	2439	2522	2527	2507	2516
55	2407	2448	2440	2437	2281	2312	2425	2354	2368	2384	2491	2398	2274	2356	2425	2386	2407
56	2362	2274	2356	2340	2173	2210	2291	2264	2247	2255	2369	2333	2185	2280	2317	2239	2362
57	2182	2164	2227	2197	2052	2089	2132	2143	2157	2145	2259	2178	2097	2178	2202	2117	2182
58	2060	2003	2124	2068	1957	2000	2036	2027	2073	2009	2130	2068	1951	2051	2030	1995	2060
59	1945	1893	1969	1945	1862	1904	1927	1893	1919	1886	1969	1925	1862	1917	1940	1893	1945
60	1823	1744	1872	1854	1767	1770	1800	1772	1849	1822	1852	1802	1742	1815	1825	1746	1823
61	1707	1667	1756	1750	1679	1700	1685	1682	1707	1706	1781	1705	1647	1700	1710	1663	1707
62	1637	1589	1652	1666	1527	1611	1589	1580	1643	1583	1627	1607	1539	1618	1589	1541	1637
63	1521	1518	1562	1562	1501	1541	1506	1471	1540	1518	1556	1530	1451	1503	1525	1465	1521
64	1444	1395	1504	1465	1368	1433	1430	1439	1470	1415	1485	1471	1375	1433	1436	1362	1444
65	1386	1311	1439	1374	1330	1325	1334	1343	1354	1305	1478	1374	1299	1376	1347	1298	1386
66	1297	1273	1330	1309	1223	1286	1308	1222	1297	1234	1349	1296	1229	1318	1308	1254	1297
67	1200	1182	1291	1245	1191	1216	1200	1177	1220	1176	1207	1238	1229	1261	1232	1170	1200
68	1136	1085	1201	1167	1096	1172	1117	1087	1162	1066	1162	1160	1102	1146	1130	1055	1136
69	1053	1014	1091	1070	1026	1032	1034	1023	1033	963	1117	1095	1064	1070	1066	1023	1053
70	988	976	1033	979	938	962	964	934	995	917	1026	1005	957	1044	1002	953	988
71	937	879	988	966	881	923	932	844	892	840	968	901	925	955	913	870	937
72	847	775	884	862	811	892	881	774	822	775	897	862	855	866	887	780	847
73	764	749	852	804	754	771	766	748	725	704	839	797	786	841	817	748	764
74	674	685	781	732	716	720	670	646	712	627	781	713	627	751	747	678	674
75	693	627	716	668	627	662	619	588	616	627	716	661	602	650	677	608	693
76	578	510	665	583	519	611	568	524	558	536	523	590	608	611	568	518	578
77	552	465	562	525	488	484	523	460	501	439	574	506	481	522	523	492	552
78	436	407	471	454	393	344	434	397	449	349	374	408	456	452	460	448	436
79	392	336	452	395	298	312	402	352	379	349	368	344	386	376	389	217	392
80	295	310	316	298	310	312	300	243	315	220	336	318	304	261	313	269	295
81	282	265	323	201	222	236	236	224	270	239	265	246	266	248	294	96	282
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86	64	0	103	0	82	70	0	0	0	0	84	0	63	0	0	0	64
87	64	0	65	0	0	0	0	0	0	0	77	0	0	0	0	0	64
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89	64	0	65	0	70	0	64	0	71	0	71	0	63	0	64	0	64
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180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Luminaire Report Summary

IESNA:LM-63-1995
[TEST] BLC2203044E-G
[ISSUEDATE] 2022-4-21 18:13
[MANUFAC] ASHART LIGHT CO., LTD
[LUMCAT] AST-SP06-400T2PS3A1-acdf40
[LUMINAIRE]
[LAMP]
[LAMP]
[_VOLTAGE] 120.0 V
[_CURRENT] 3.405 A
[_POWERFACTOR] 0.996
[_THD] 7.46
[TESTLAB] UTEST TECHNICAL LABORATORY
[_TESTINST] GPM-3000
[_TESTDIST] 14.140 m [K=8.8652]
[_TESTTEMPERATURE] 25.2 '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.