

Photometrics Pro

Luminaire Photometric Report

Filename: AST-PHB08E-300WBML1A1-abdW40-120V-4

Manufacturer: ASmart LIGHT CO., LTD

Luminaire Cat: AST-PHB08E-300WBML1A1-abdW40

Lamp Output: 1 lamp, rated Lumens/lamp: 40729.2

Max Candela: 18,958.4 at Horizontal: 135°, Vertical: 1°

Input Wattage: 293.04

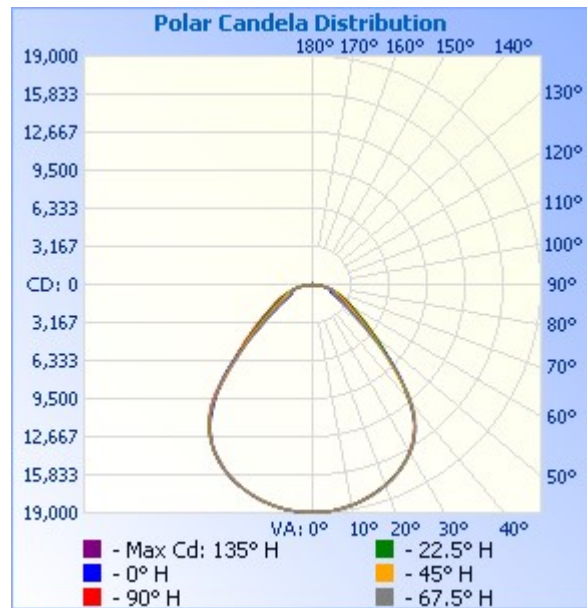
Luminous Opening: Rectangle (L: 22.76", W: 13.78")

Test: BLC2207035E-I

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:	30.1
Max Cd, 80 to <90 Deg:	1,252.6
	Lumens % Lamp
Downward Street Side:	20,260.4 49.7%
Downward House Side:	20,312.0 49.9%
Downward Total:	40,572.4 99.6%
Upward Street Side:	80.4 0.2%
Upward House Side:	76.4 0.2%
Upward Total:	156.8 0.4%
Total Lumens:	40,729.2 100%

Flood Summary

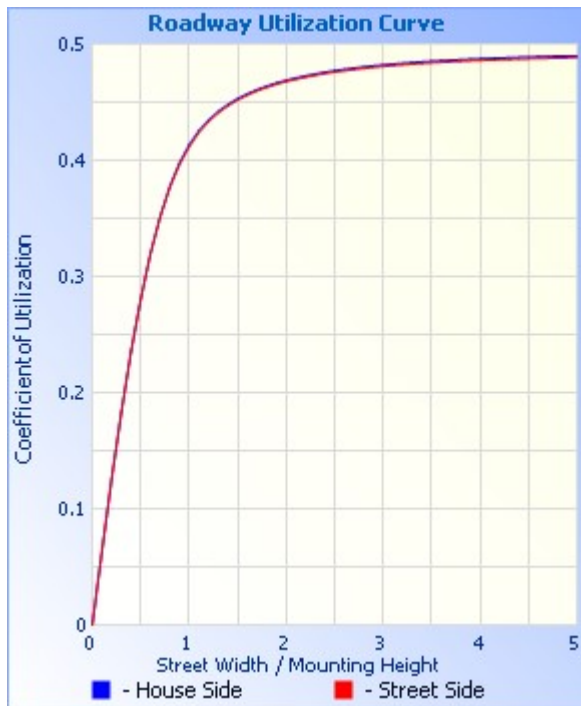
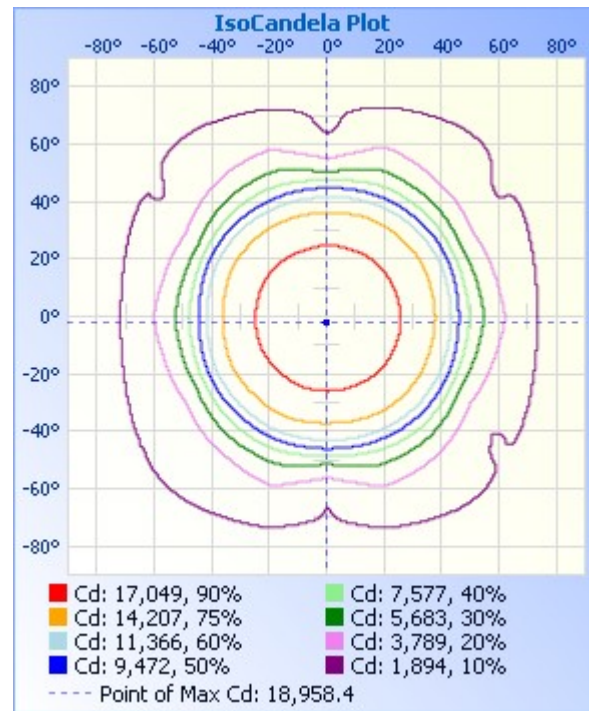
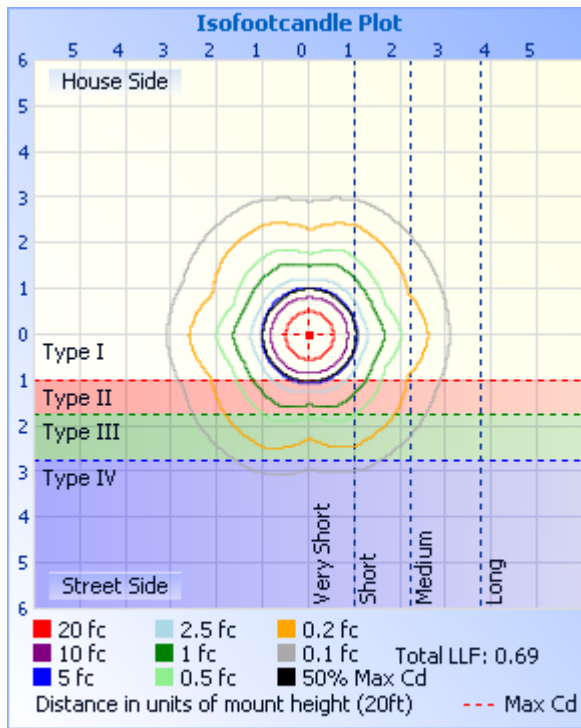
	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	95.2%	38,758.1	145.2	130.4
Beam (50%):	69.4%	28,251.4	90.4	91
Total:	100%	40,712.0		

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	14,826.1	36.4%	36.4%
0-40	24,046.1	59%	59%
0-60	35,634.0	87.5%	87.5%
60-90	4,933.2	12.1%	12.1%
70-100	2,346.6	5.8%	5.8%
90-120	54.2	0.1%	0.1%
0-90	40,567.2	99.6%	99.6%
90-180	156.8	0.4%	0.4%
0-180	40,724.0	100%	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	1,794.7	4.4%	90-100	19.5	0%
10-20	5,160.1	12.7%	100-110	17.7	0%
20-30	7,871.4	19.3%	110-120	17.0	0%
30-40	9,220.0	22.6%	120-130	19.0	0%
40-50	7,373.8	18.1%	130-140	21.5	0.1%
50-60	4,214.0	10.3%	140-150	23.1	0.1%
60-70	2,606.0	6.4%	150-160	20.3	0%
70-80	1,772.8	4.4%	160-170	13.8	0%
80-90	554.4	1.4%	170-180	4.9	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	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	1.10	1.06	1.02	.99	1.08	1.04	1.00	.87	1.00	.97	.94	.96	.93	.91	.92	.90	.89	.87
2	1.02	.95	.89	.84	.99	.93	.87	.76	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3	.94	.85	.77	.72	.92	.83	.76	.67	.80	.74	.70	.77	.73	.69	.75	.71	.67	.65

4	.87	.76	.68	.62	.85	.75	.68	.59	.72	.66	.61	.70	.65	.60	.68	.63	.60	.58
5	.81	.69	.61	.55	.79	.68	.60	.53	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6	.75	.63	.55	.49	.73	.62	.54	.47	.60	.53	.48	.59	.52	.48	.57	.52	.47	.46
7	.70	.58	.50	.44	.68	.57	.49	.43	.55	.48	.43	.54	.48	.43	.52	.47	.43	.41
8	.65	.53	.45	.40	.64	.52	.45	.39	.51	.44	.39	.50	.44	.39	.49	.43	.39	.37
9	.61	.49	.41	.36	.60	.48	.41	.35	.47	.40	.36	.46	.40	.36	.45	.39	.35	.34
10	.58	.45	.38	.33	.56	.45	.38	.32	.44	.37	.33	.43	.37	.33	.42	.36	.32	.31

47	8282	8283	7933	7814	8278	7879	7993	8482	8619	8530	8407	8354	8728	8338	8118	8470	8282
48	7570	7829	7414	7016	7789	7165	7414	7952	7803	8005	7815	7546	8262	7622	7585	7996	7570
49	6778	7405	6961	6383	7331	6470	6922	7450	6985	7475	7320	6817	7766	6894	7114	7518	6778
50	6096	6985	6521	5828	6872	5929	6456	6938	6210	7042	6853	6147	7343	6293	6657	7102	6096
51	5556	6550	6087	5350	6467	5443	5987	6501	5634	6633	6389	5615	6932	5760	6213	6699	5556
52	5027	6198	5680	4953	6103	5026	5497	6126	5159	6257	5894	5171	6551	5315	5755	6342	5027
53	4628	5853	5259	4565	5743	4643	5070	5778	4735	5906	5452	4776	6207	4940	5357	5977	4628
54	4232	5528	4908	4245	5412	4259	4698	5451	4364	5543	5040	4410	5850	4566	4942	5658	4232
55	3898	5178	4593	3910	5070	3942	4364	5111	3988	5234	4684	4049	5534	4245	4600	5358	3898
56	3581	4895	4304	3648	4783	3648	4038	4836	3672	4940	4347	3744	5218	3935	4292	5056	3581
57	3291	4590	4051	3363	4527	3380	3773	4583	3388	4652	4091	3460	4911	3641	4046	4779	3291
58	3039	4343	3817	3112	4304	3125	3541	4348	3121	4409	3854	3196	4635	3384	3788	4539	3039
59	2809	4120	3629	2868	4089	2879	3334	4132	2856	4183	3646	2957	4373	3122	3587	4290	2809
60	2576	3900	3453	2662	3904	2664	3144	3926	2636	3955	3456	2731	4160	2897	3386	4088	2576
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63	2052	3353	3005	2161	3456	2189	2682	3330	2132	3333	2939	2202	3608	2329	2934	3500	2052
64	1922	3194	2863	2039	3323	2084	2567	3167	2024	3161	2807	2058	3459	2179	2820	3313	1922
65	1803	3037	2748	1947	3179	2004	2482	3029	1934	3026	2694	1951	3311	2059	2705	3153	1803
66	1728	2919	2625	1884	3018	1954	2410	2906	1881	2914	2592	1867	3169	1956	2602	3019	1728
67	1678	2803	2530	1836	2854	1926	2354	2789	1851	2798	2517	1814	3002	1886	2507	2899	1678
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72	1687	2141	2038	1845	1913	1928	2027	2188	1671	2189	2112	1852	2085	1822	2085	2284	1687
73	1656	2007	1930	1830	1736	1891	1933	2050	1624	2068	2005	1840	1913	1823	2000	2129	1656
74	1581	1871	1813	1799	1573	1830	1822	1927	1587	1950	1890	1806	1741	1817	1899	1978	1581
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83	707	833	782	603	653	619	778	891	731	946	853	674	804	719	838	888	707
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167	52	48	50	39	49	53	51	54	51	53	51	52	45	48	43	49	52
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171	51	46	50	50	50	56	56	52	53	53	49	55	39	50	50	38	51
172	54	53	44	52	55	56	62	50	50	55	55	55	51	48	51	44	54
173	54	50	47	52	47	59	55	51	50	54	50	55	51	52	45	46	54
174	53	47	50	52	53	50	54	53	56	55	47	55	45	53	53	50	53
175	54	50	52	48	46	55	53	55	58	56	55	54	41	58	49	47	54
176	55	49	53	50	47	55	56	54	52	55	54	50	41	47	46	50	55
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178	52	42	52	38	49	48	50	53	50	48	52	52	50	55	52	46	52
179	45	45	44	51	47	50	54	57	53	38	47	52	50	46	48	54	45
180	48	51	50	53	44	47	53	50	49	48	51	50	46	54	49	49	48

Luminaire Report Summary

IESNA:LM-63-1995
[TEST] BLC2207035E-I
[ISSUE DATE] 2022/7/26 16:47
[MANUFAC] ASHART LIGHT CO., LTD
[LUMCAT] AST-PHB08E-300WBML1A1-abdW40
[LUMINAIRE]
[LAMP CAT]
[LAMP]
[_VOLTAGE] 120.0 V
[_CURRENT] 2.444 A
[_POWERFACTOR] 0.999
[_THD] 4.86
[TESTLAB] UTEST TECHNICAL LABORATORY
[_TESTINST] GPM-3000
[_TESTDIST] 14.140 m [K=1.0000]
[_TESTTEMPERATURE] 25.3 '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.