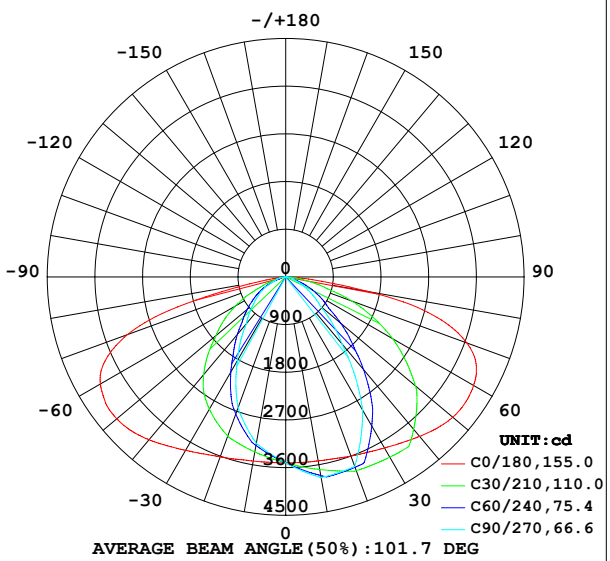
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:48.62V I:1.250A P:60.60W PF:1.000 Freq:49.99Hz Lamp Flux:10037.7x1 lm		
NAME: BS-FH-60W	TYPE:LED	WEIGHT:
SPEC.:BS-FH-60W	DIM.:	SERIAL No.:1
MFR.: Bluesmart Solar PV Co.,Ltd.	SUR.:240*75	Shielding Angle:

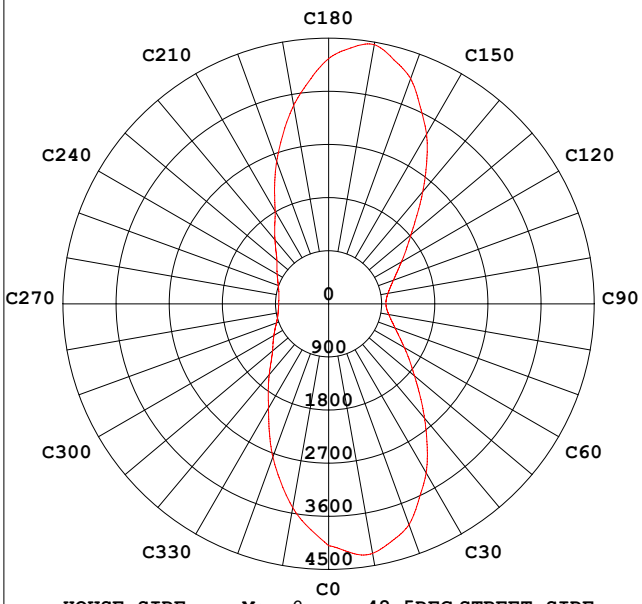
DATA OF LAMP		PHOTOMETRIC DATA Eff: 165.63 lm/W			
MODEL	1W8C1B SA2235	Imax(cd)	4460	η street_up(%)	0.0
NOMINAL POWER(W)	60	LOR(%)	100.0	η street_down(%)	57.9
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	10038	η house_up(%)	0.0
NOMINAL FLUX(lm)	10037.7	MAXIMUM @(C,γ)	170,48.5	η house_down(%)	42.1
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	48	η down(%)	100.0	SLI	22.071

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



AVERAGE BEAM ANGLE(50%):101.7 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

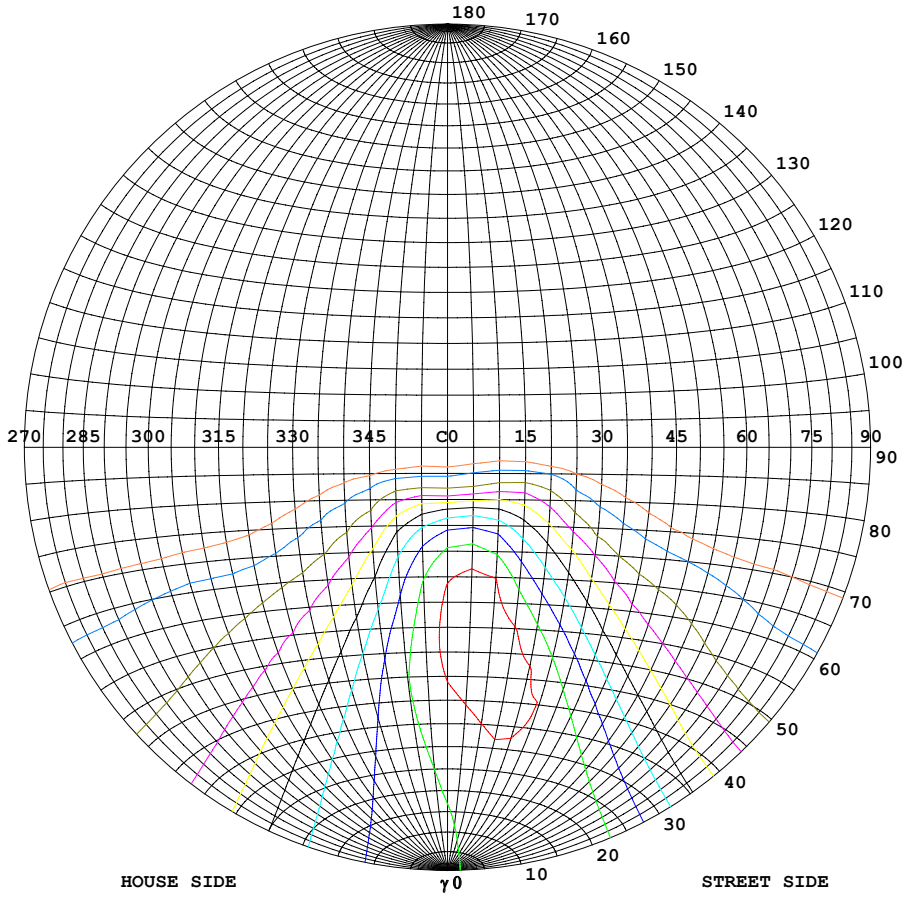


HOUSE SIDE Max @ γ = 48.5DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM



Classification:

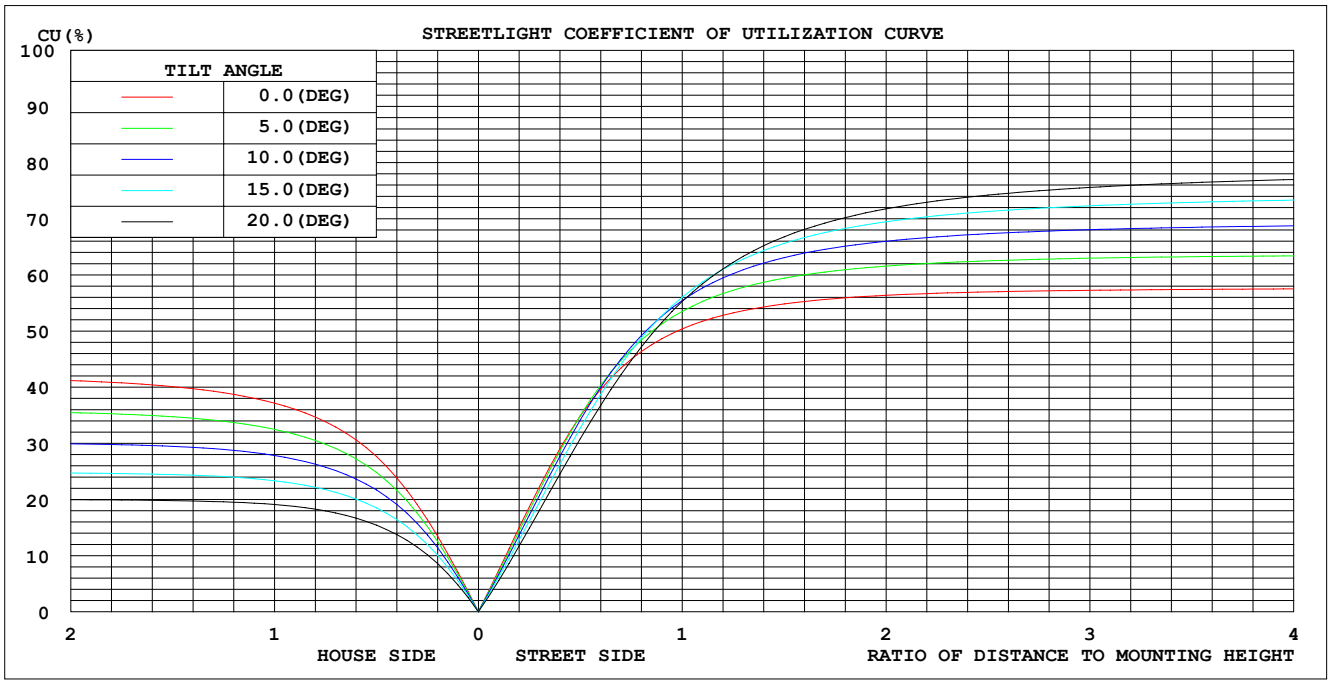
IES:Type II - Short
CIE:Narrow - Short
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:178.4cd/klm
Max.At90:1.704cd/klm
Max.80-90:178.4cd/klm

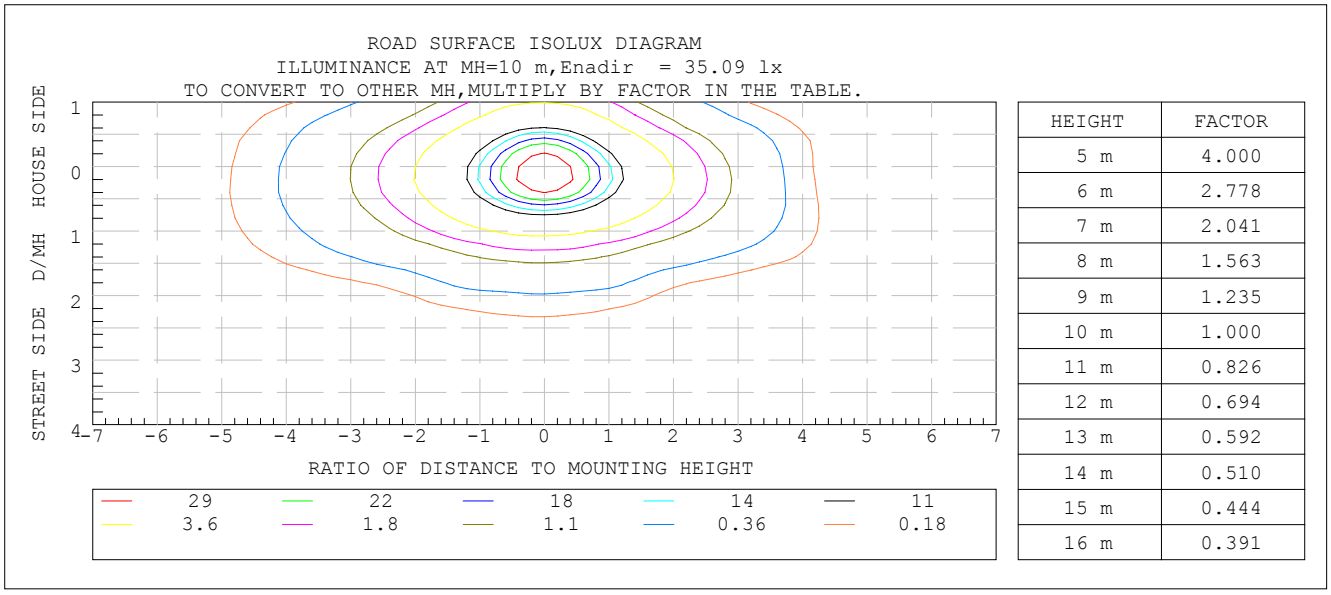
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4460
90%	4014
80%	3568
70%	3122
60%	2676
50%	2230
40%	1784
30%	1338
20%	892
10%	446
5%	223

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

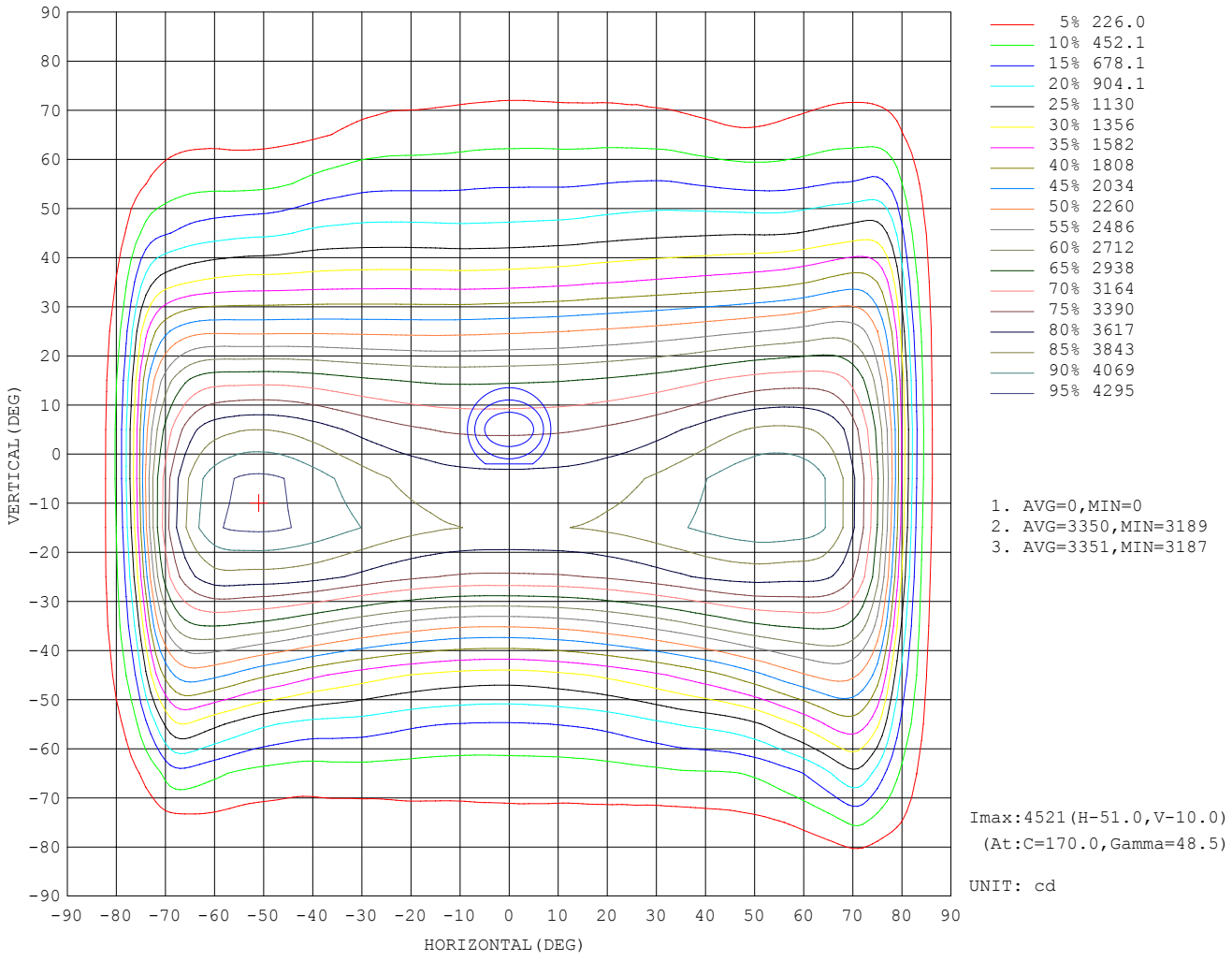
ZONAL FLUX DIAGRAM

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3525	3757	3846	3757	3529	3283	3191	3292	0- 10	335.7	335.7	3.34,3.34
20	3598	3851	3808	3870	3614	2937	2631	2973	10- 20	984.0	1320	13.1,13.1
30	3728	3671	2906	3702	3778	2434	1823	2517	20- 30	1503	2823	28.1,28.1
40	3928	2995	1656	2987	4013	1744	1157	1885	30- 40	1766	4589	45.7,45.7
50	4119	2041	851.2	1955	4164	1175	792.6	1286	40- 50	1779	6367	63.4,63.4
60	4095	1174	470.7	1080	4040	716.9	516.4	850.2	50- 60	1609	7976	79.5,79.5
70	3636	526.8	198.9	402.8	3180	225.9	227.0	334.9	60- 70	1260	9236	92,92
80	1557	139.7	115.5	102.5	508.4	64.45	99.66	89.75	70- 80	684.6	9921	98.8,98.8
90	17.10	0	0	0	12.54	0	0	0	80- 90	116.9	10038	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

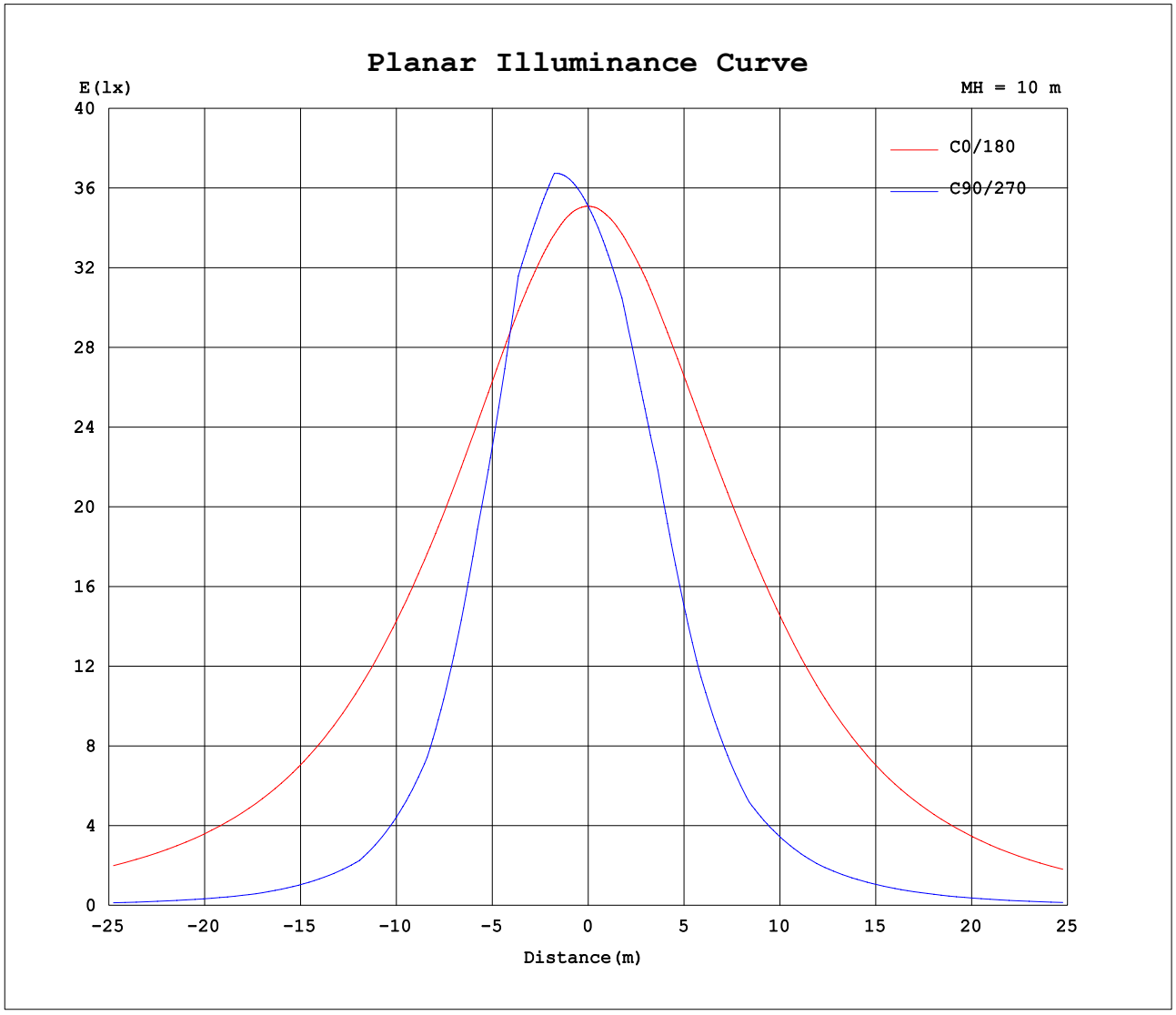
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

Planar Illuminance Curve



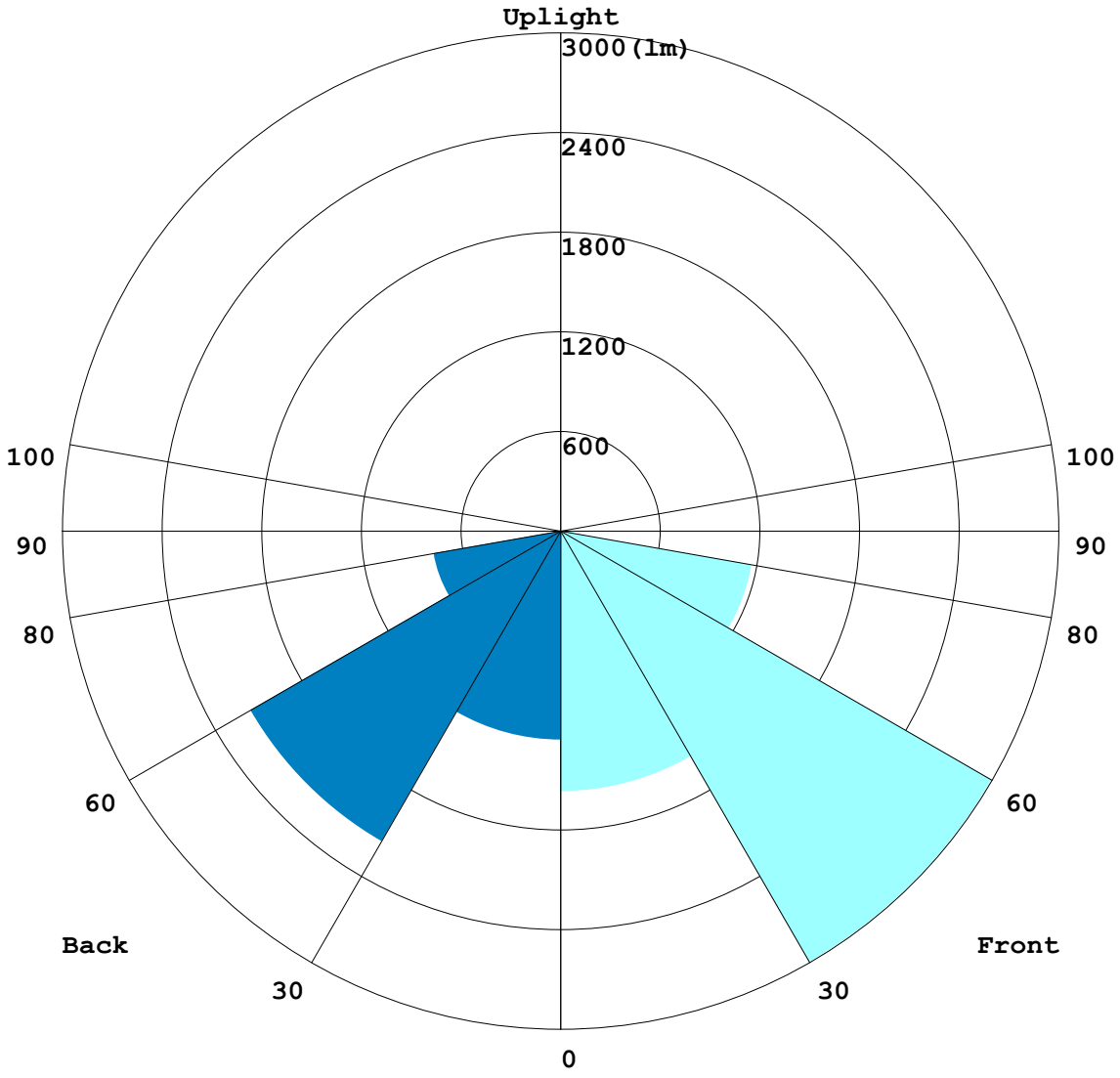
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

LCS REPORT

Test:U:48.62V I:1.250A P:60.60W PF:1.000 Freq:49.99Hz Lamp Flux:10037.7x1 lm		
NAME: BS-FH-60W	TYPE:LED	WEIGHT:
SPEC.:BS-FH-60W	DIM.:	SERIAL No.:1
MFR.: Bluesmart Solar PV Co.,Ltd.	SUR.:240*75	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

BUG REPORT

Test:U:48.62V I:1.250A P:60.60W PF:1.000 Freq:49.99Hz Lamp Flux:10037.7x1 lm		
NAME: BS-FH-60W	TYPE:LED	WEIGHT:
SPEC.:BS-FH-60W	DIM.:	SERIAL No.:1
MFR.: Bluesmart Solar PV Co.,Ltd.	SUR.:240*75	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1566.6	15.6
FM - Front-Medium(30-60)	2995.9	29.8
FH - Front-High(60-80)	1168.1	11.6
FVH - Front-Very High(80-90)	76.284	0.8
Total Forward Light	5806.8	57.9

BL - Back-Low(0-30)	1256.5	12.5
BM - Back-Medium(30-60)	2156.9	21.5
BH - Back-High(60-80)	776.87	7.7
BVH - Back-Very High(80-90)	40.571	0.4
Total Back Light	4230.9	42.1

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B3-U0-G2

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4230.9	0	4230.9
Street Side	5806.8	0	5806.8

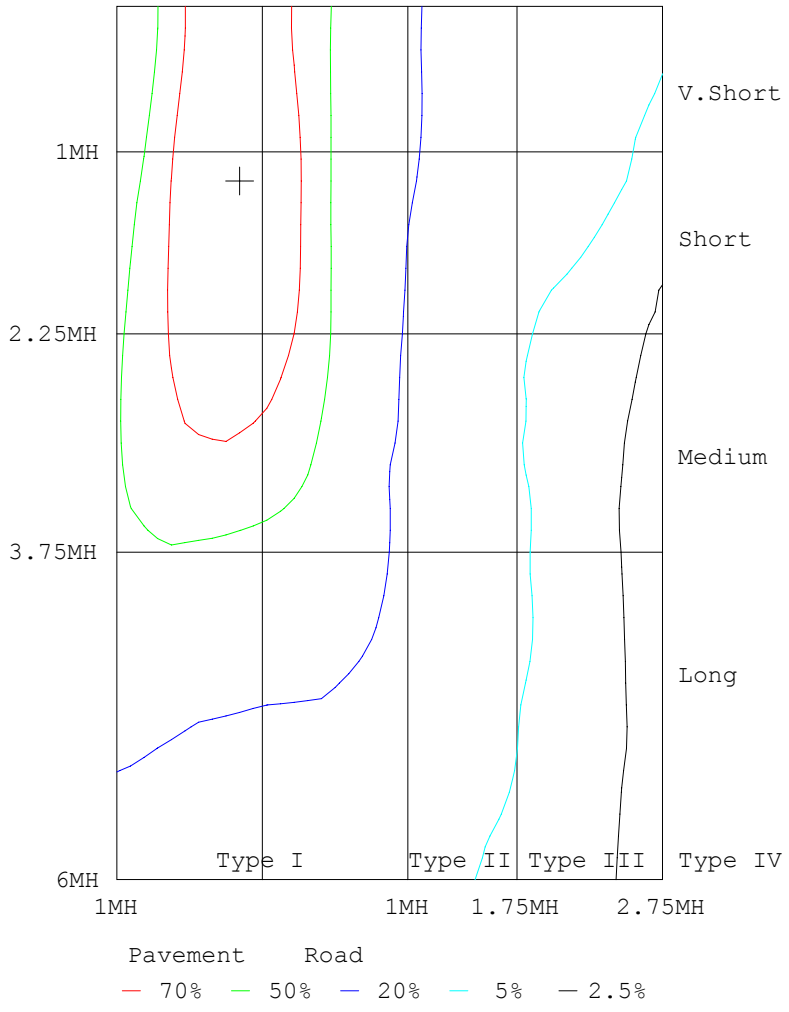
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:48.62V I:1.250A P:60.60W PF:1.000 Freq:49.99Hz Lamp Flux:10037.7x1 lm		
NAME: BS-FH-60W	TYPE:LED	WEIGHT:
SPEC.:BS-FH -60W	DIM.:	SERIAL No.:1
MFR.: Bluesmart Solar PV Co.,Ltd.	SUR.:240*75	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: cd

C(DEG) / γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509
5	3515	3529	3544	3558	3572	3585	3598	3610	3621	3631	3640	3649	3656	3662	3668	3672	3675	3677	3678
10	3525	3555	3583	3611	3639	3665	3690	3714	3736	3757	3776	3792	3806	3818	3828	3835	3841	3845	3846
15	3552	3595	3637	3678	3717	3755	3791	3824	3855	3857	3850	3845	3841	3837	3833	3831	3828	3827	3827
20	3598	3655	3710	3763	3813	3859	3891	3877	3863	3851	3841	3831	3824	3818	3815	3812	3810	3808	3808
25	3653	3724	3791	3855	3915	3929	3908	3888	3867	3848	3831	3744	3643	3555	3484	3430	3390	3366	3357
30	3728	3813	3892	3967	3992	3961	3930	3900	3844	3671	3512	3372	3250	3146	3061	2995	2947	2917	2906
35	3821	3918	4010	4083	4036	3992	3951	3768	3548	3346	3163	3000	2820	2662	2530	2426	2349	2300	2281
40	3928	4036	4136	4134	4066	4005	3757	3492	3242	2995	2732	2498	2288	2107	1954	1831	1739	1680	1656
45	4038	4155	4262	4162	4068	3810	3498	3200	2849	2526	2238	1983	1779	1617	1489	1391	1318	1272	1253
50	4119	4256	4296	4144	3908	3553	3197	2776	2388	2041	1776	1548	1354	1195	1074	982	913	867	851
55	4138	4317	4258	4042	3634	3231	2769	2314	1933	1614	1342	1110	960	859	784	732	694	671	661
60	4095	4298	4137	3745	3294	2811	2331	1862	1468	1174	1003	861	743	640	564	517	489	477	471
65	3970	4124	3996	3394	2869	2361	1834	1364	1056	855	731	614	521	445	394	364	347	339	335
70	3636	3720	3507	2947	2409	1877	1322	893	631	527	446	363	298	259	242	224	209	202	199
75	2961	3054	2873	2385	1864	1221	758	514	359	255	192	164	155	157	161	159	157	158	157
80	1557	1695	1790	1603	1163	648	366	249	179	140	118	108	105	107	102	104	109	116	116
85	365	460	544	529	435	224	128	75.5	49.2	33.5	24.4	19.2	14.1	10.2	6.06	3.50	1.65	0.44	0.00
90	17.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2 UNIT: cd

γ (DEG) \ C (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509
5	3677	3675	3673	3669	3663	3657	3649	3640	3631	3620	3608	3596	3583	3570	3556	3542	3527	3512	3498
10	3846	3843	3837	3829	3818	3806	3791	3775	3757	3737	3716	3692	3668	3642	3615	3587	3558	3529	3499
15	3828	3830	3832	3834	3838	3843	3850	3856	3865	3865	3834	3801	3767	3730	3692	3651	3608	3563	3515
20	3810	3811	3814	3819	3825	3834	3845	3856	3870	3887	3905	3921	3888	3839	3787	3732	3674	3614	3543
25	3364	3386	3425	3483	3559	3652	3762	3860	3880	3902	3927	3952	3978	3966	3902	3835	3762	3685	3587
30	2911	2934	2979	3046	3136	3248	3379	3530	3702	3892	3954	3990	4026	4065	4040	3960	3872	3778	3644
35	2291	2331	2401	2503	2637	2801	2988	3163	3361	3581	3822	4022	4073	4127	4185	4104	4002	3891	3710
40	1668	1714	1796	1912	2064	2247	2459	2705	2987	3256	3528	3819	4093	4170	4257	4263	4143	4013	3772
45	1263	1299	1360	1448	1567	1712	1910	2178	2484	2833	3217	3539	3879	4168	4290	4423	4275	4113	3802
50	863	902	962	1044	1155	1300	1481	1698	1955	2328	2746	3196	3584	3981	4261	4455	4374	4164	3776
55	664	683	716	763	828	917	1050	1268	1530	1845	2246	2729	3221	3668	4143	4372	4389	4151	3688
60	469	479	505	550	619	706	803	917	1080	1370	1768	2245	2759	3286	3844	4256	4297	4040	3545
65	333	338	353	381	425	485	546	607	721	932	1221	1679	2256	2831	3404	3974	4015	3765	3270
70	198	201	210	225	232	258	306	355	403	504	749	1127	1652	2281	2860	3306	3395	3180	2724
75	156	150	148	147	133	124	135	157	187	271	389	586	980	1597	2052	2241	2102	1941	1801
80	115	104	97.7	94.0	96.4	91.1	88.8	94.0	103	124	152	228	415	762	844	730	570	508	486
85	0.44	1.57	3.30	5.59	9.25	12.7	15.4	19.4	25.3	33.6	43.9	56.8	87.2	128	128	127	112	74.1	64.5
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.5	0.00

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--3 UNIT: cd

γ (DEG) \ C (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509
5	3484	3470	3456	3443	3430	3418	3407	3397	3387	3379	3371	3365	3359	3355	3352	3350	3350	3351	3353
10	3469	3439	3410	3382	3355	3329	3305	3283	3263	3245	3230	3218	3208	3200	3195	3191	3191	3193	3197
15	3466	3417	3369	3323	3279	3238	3200	3149	3098	3052	3012	2979	2953	2933	2920	2912	2911	2916	2926
20	3473	3402	3333	3267	3197	3103	3016	2937	2868	2808	2757	2714	2680	2655	2640	2632	2631	2638	2653
25	3488	3390	3296	3179	3048	2926	2816	2717	2629	2534	2447	2374	2316	2273	2244	2229	2227	2238	2264
30	3508	3375	3221	3045	2882	2733	2591	2434	2295	2175	2073	1990	1922	1872	1841	1825	1823	1837	1868
35	3528	3346	3107	2886	2686	2474	2273	2094	1936	1803	1715	1643	1582	1536	1506	1491	1490	1504	1534
40	3532	3255	2960	2691	2410	2152	1925	1744	1621	1515	1421	1341	1270	1215	1179	1159	1157	1173	1205
45	3497	3116	2761	2407	2079	1790	1616	1466	1335	1223	1145	1088	1042	1005	985	975	975	985	1004
50	3371	2916	2478	2059	1717	1509	1328	1175	1085	1010	948	894	852	820	802	794	793	798	813
55	3179	2652	2115	1683	1422	1201	1059	956	873	804	753	713	682	660	653	654	655	659	667
60	2948	2298	1706	1373	1097	902	791	717	654	619	585	551	523	505	505	514	516	521	525
65	2633	1839	1336	1001	735	557	494	446	417	417	410	389	368	361	365	370	372	377	380
70	2056	1318	872	582	421	313	239	226	228	228	225	226	213	217	227	228	227	232	234
75	1292	721	461	314	203	153	122	100	90.6	96.1	114	137	138	143	150	156	163	160	156
80	407	255	180	120	77.4	66.4	63.0	64.5	67.3	68.5	79.4	91.2	87.4	81.6	77.8	84.4	99.7	88.3	81.8
85	51.7	45.8	49.5	49.5	43.8	33.6	25.2	20.4	17.0	12.9	10.7	8.50	5.22	2.72	1.16	0.32	0.00	0.33	1.22
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4 UNIT: cd

γ (DEG) \ C(DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509	3509				
5	3356	3360	3366	3373	3381	3390	3400	3410	3422	3434	3446	3460	3473	3487	3501				
10	3204	3213	3224	3238	3254	3272	3292	3313	3336	3360	3386	3413	3441	3469	3497				
15	2944	2967	2995	3030	3070	3115	3166	3217	3253	3292	3332	3375	3419	3463	3508				
20	2676	2706	2743	2789	2843	2904	2973	3049	3131	3220	3284	3345	3408	3472	3535				
25	2303	2355	2420	2500	2591	2689	2775	2870	2974	3087	3207	3313	3397	3483	3568				
30	1914	1976	2053	2147	2256	2379	2517	2670	2804	2943	3093	3253	3388	3501	3615				
35	1579	1638	1714	1806	1910	2048	2205	2382	2578	2780	2962	3159	3370	3524	3673				
40	1252	1316	1403	1500	1611	1739	1885	2073	2295	2543	2809	3048	3306	3543	3737				
45	1034	1078	1142	1209	1304	1439	1595	1775	1984	2262	2576	2907	3219	3548	3793				
50	839	882	942	1011	1091	1182	1286	1473	1694	1949	2288	2687	3085	3481	3815				
55	684	718	763	817	886	975	1078	1202	1368	1641	1960	2392	2895	3357	3783				
60	538	571	610	654	707	767	850	970	1118	1305	1629	2038	2598	3181	3698				
65	390	413	442	475	513	537	587	683	830	1004	1268	1684	2243	2958	3539				
70	237	248	261	278	305	319	335	354	481	656	878	1266	1843	2591	3207				
75	157	160	156	148	144	138	157	195	258	359	538	806	1294	2067	2619				
80	87.4	95.5	97.7	90.5	84.6	86.5	89.8	99.9	122	168	274	414	680	1232	1562				
85	2.91	5.62	9.00	11.4	14.1	18.9	23.9	30.9	41.4	59.2	90.5	145	198	313	369				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:XYM
Test Date:2018.5.29

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:65.0%
Test Distance:10.230m [K=1.0000]
Remarks: