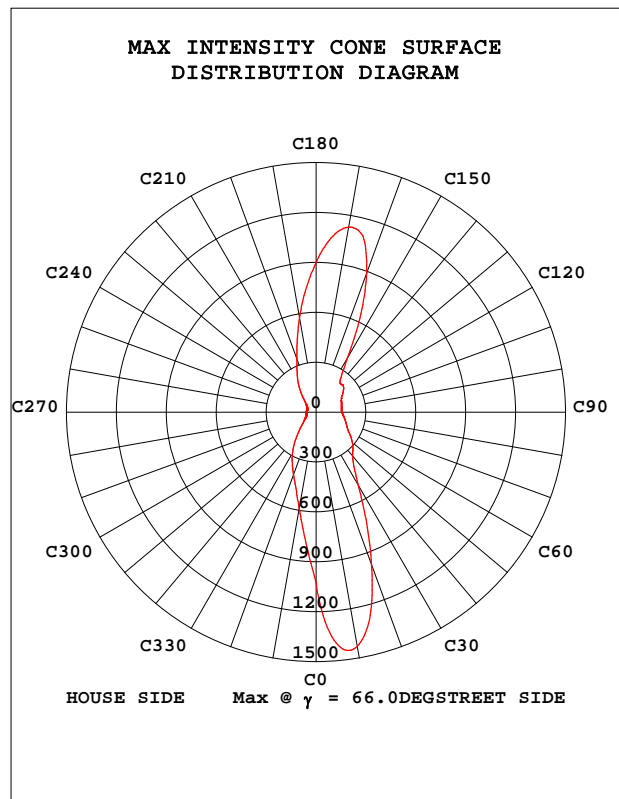
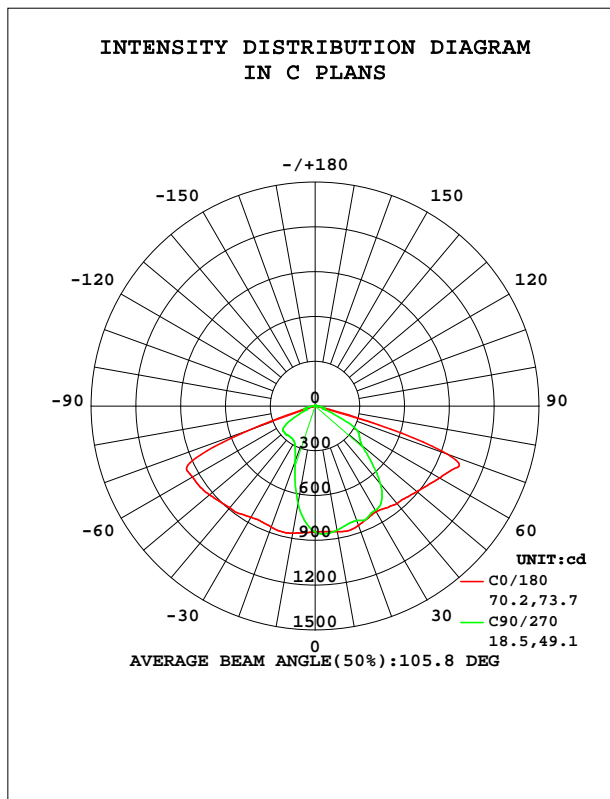


**STREETLIGHT PHOTOMETRIC TEST REPORT**

Test:U:37.90V I:0.3900A P:14.78W PF:0.9520 Lamp Flux:2444.8x1 lm		
NAME:	TYPE:	WEIGHT:5
SPEC.:SLT-16C	DIM.:	SERIAL No.:
MFR.: Shen Zhen Xing Sheng Yang Opto-electronics	Technology Co.Ltd	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 165.41 lm/W			
MODEL	3030 5000K	I <sub>max</sub> (cd)	1263	η street_up(%)	0.3
NOMINAL POWER(W)	15	LOR(%)	100.0	η street_down(%)	62.1
RATED VOLTAGE(V)	37.9	TOTAL FLUX(lm)	2445	η house_up(%)	0.3
NOMINAL FLUX(lm)	2444.8	MAXIMUM @(C,γ )	15,66.0	η house_down(%)	37.2
LAMPS INSIDE	1	η up(%)	0.7	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	37.9	η down(%)	99.3	SLI	15.393



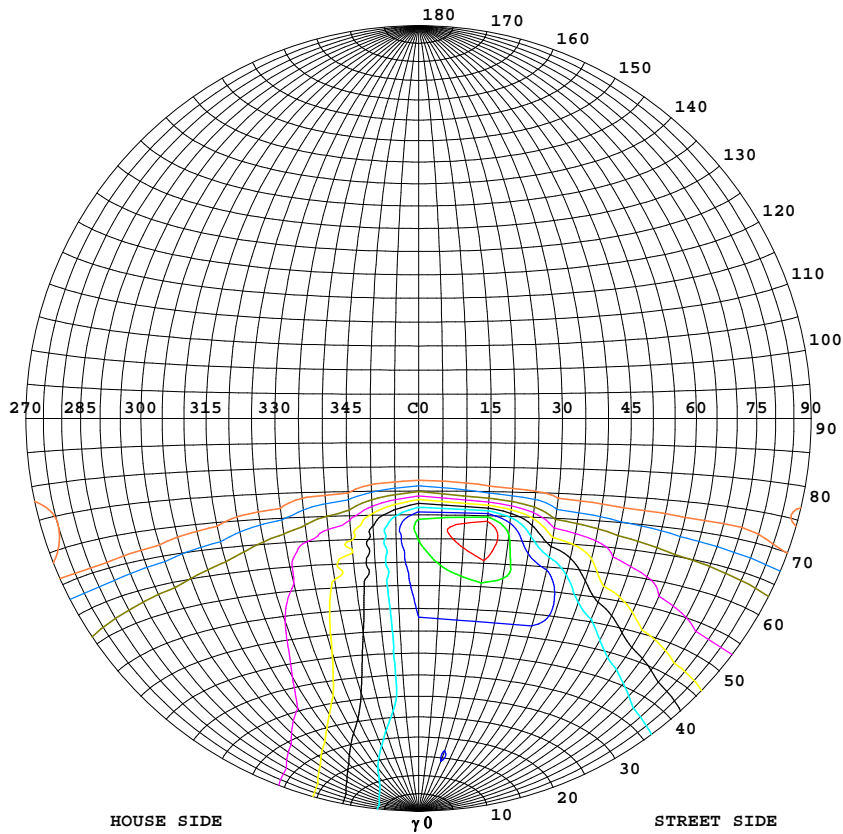
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-04-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

Note: SLI:Specific Luminaire Index

**STREETLIGHT ISOCANDELA DIAGRAM**

Test:U:37.90V I:0.3900A P:14.78W PF:0.9520 Lamp Flux:2444.8x1 lm		
NAME:	TYPE:	WEIGHT:5
SPEC.:SLT-16C	DIM.:	SERIAL No.:
MFR.: Shen Zhen Xing Sheng Yang Opto-electronics	Technology Co.Ltd	Shielding Angle:



**Classification:**

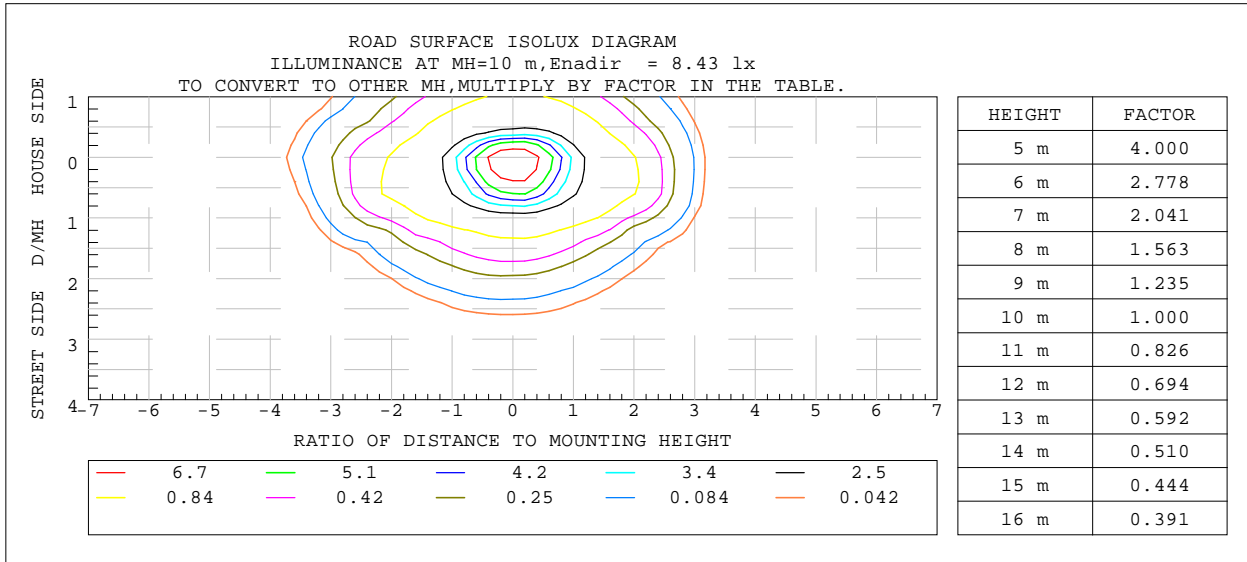
IES:Type II - Short  
 CIE:Narrow - Intermediate  
 IES:Cut-off  
 CIE:Semi-cut-off  
 Max.At80:18.72cd/klm  
 Max.At90:8.263cd/klm  
 Max.80-90:18.72cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I <sub>max</sub> =100%	1263
90%	1137
80%	1010
70%	884
60%	758
50%	631
40%	505
30%	379
20%	253
10%	126
5%	63

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-04-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2017-04-20

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
Humidity: 65.0%  
Test Distance: 8.000m [K=1.0000]  
Remarks:

ZONAL FLUX DIAGRAM

Test:U:37.90V I:0.3900A P:14.78W PF:0.9520 Lamp Flux:2444.8x1 lm		
NAME:	TYPE:	WEIGHT:5
SPEC.:SLT-16C	DIM.:	SERIAL No.:
MFR.: Shen Zhen Xing Sheng Yang Opto-electronics	Technology Co.Ltd	Shielding Angle:

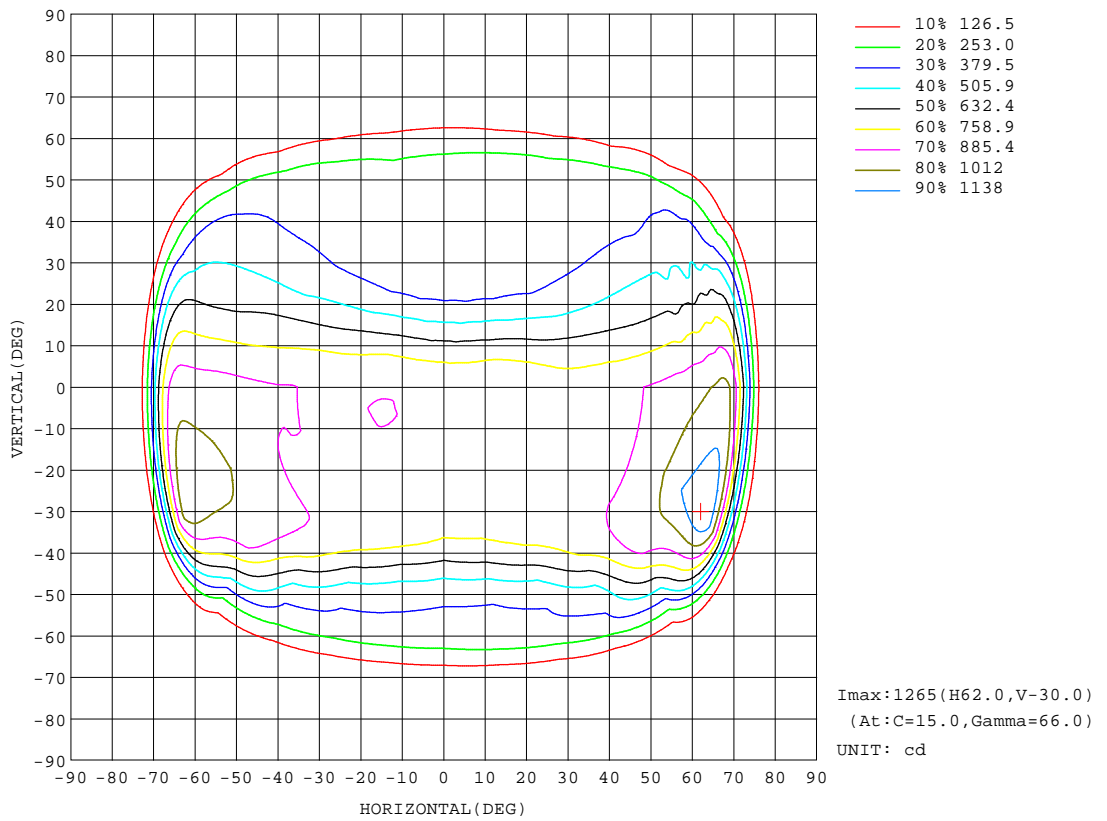
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum
5	844.1	860.0	857.9	865.8	851.0	804.6	776.4	800.4	0- 5	20.04	20.04	0.82
10	855.0	859.9	845.1	873.7	864.6	749.4	662.7	736.9	5- 10	58.60	78.64	3.22
15	863.9	851.8	822.1	875.9	871.5	675.8	521.6	651.2	10- 15	93.25	171.9	7.03
20	850.9	842.9	816.0	873.7	862.5	586.3	395.9	551.5	15- 20	122.6	294.5	12
25	831.7	842.2	826.7	877.5	853.9	500.4	316.5	455.9	20- 25	147.6	442.1	18.1
30	817.4	811.5	806.6	856.6	860.8	433.5	280.3	385.0	25- 30	170.0	612.1	25
35	832.6	799.2	777.0	855.1	879.4	393.4	268.0	348.9	30- 35	191.3	803.4	32.9
40	853.6	822.0	683.1	878.3	889.9	372.8	266.0	331.9	35- 40	211.8	1015	41.5
45	866.2	828.7	539.0	873.3	904.7	358.3	273.2	323.7	40- 45	226.9	1242	50.8
50	890.9	769.2	413.4	787.7	925.2	339.7	271.2	314.4	45- 50	236.0	1478	60.5
55	922.8	592.3	363.8	585.5	942.7	332.3	262.9	313.3	50- 55	240.6	1719	70.3
60	963.6	423.6	323.3	405.8	949.9	281.7	188.9	295.8	55- 60	239.3	1958	80.1
65	1011	345.0	188.5	273.9	941.3	130.2	80.34	166.8	60- 65	216.5	2175	88.9
70	942.4	131.0	61.94	95.30	455.2	49.89	68.73	55.75	65- 70	154.3	2329	95.3
75	231.3	48.54	65.97	47.47	38.73	35.61	78.06	40.55	70- 75	60.92	2390	97.7
80	25.39	33.58	40.79	31.83	17.50	19.86	45.77	23.65	75- 80	20.86	2411	98.6
85	15.71	21.75	17.14	20.10	9.551	9.805	18.07	11.89	80- 85	12.35	2423	99.1
90	7.328	10.48	0.2508	7.603	4.555	3.305	1.776	4.406	85- 90	5.948	2429	99.3
95	4.077	2.705	0.2996	2.475	3.422	0.6603	0.3388	1.117	90- 95	2.002	2431	99.4
100	2.261	0.6274	0.4159	0.6833	1.600	0.8834	0.5386	0.7196	95-100	0.7172	2432	99.5
105	2.285	0.8593	0.6149	0.9163	2.116	1.384	0.7790	1.178	100-105	0.5879	2432	99.5
110	2.809	1.104	0.7621	1.158	2.529	1.893	1.077	1.668	105-110	0.7597	2433	99.5
115	3.171	1.348	0.9377	1.407	2.806	2.321	1.453	2.152	110-115	0.9078	2434	99.6
120	3.455	1.584	1.109	1.653	2.952	2.688	1.901	2.585	115-120	1.021	2435	99.6
125	3.585	1.833	1.292	1.882	3.151	3.034	2.341	3.010	120-125	1.101	2436	99.6
130	3.824	2.065	1.464	2.078	3.390	3.294	2.801	3.390	125-130	1.152	2437	99.7
135	3.968	2.297	1.646	2.246	3.573	3.387	3.193	3.730	130-135	1.164	2438	99.7
140	3.976	2.521	1.843	2.430	3.727	3.547	3.544	3.955	135-140	1.140	2439	99.8
145	3.942	2.733	2.112	2.651	3.730	3.722	3.853	4.156	140-145	1.095	2441	99.8
150	3.886	2.965	2.478	2.908	3.724	3.978	4.053	4.258	145-150	1.019	2442	99.9
155	3.856	3.209	2.853	3.174	3.727	4.186	4.232	4.299	150-155	0.9171	2442	99.9
160	3.865	3.458	3.233	3.436	3.788	4.329	4.449	4.348	155-160	0.7959	2443	99.9
165	3.922	3.686	3.600	3.681	3.853	4.455	4.673	4.458	160-165	0.6539	2444	100
170	4.035	3.893	3.893	3.910	3.954	4.463	4.766	4.548	165-170	0.4883	2444	100
175	4.072	4.081	4.147	4.090	4.064	4.382	4.615	4.508	170-175	0.3019	2445	100
180	4.125	4.223	4.350	4.266	4.133	4.264	4.412	4.332	175-180	0.1021	2445	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-04-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

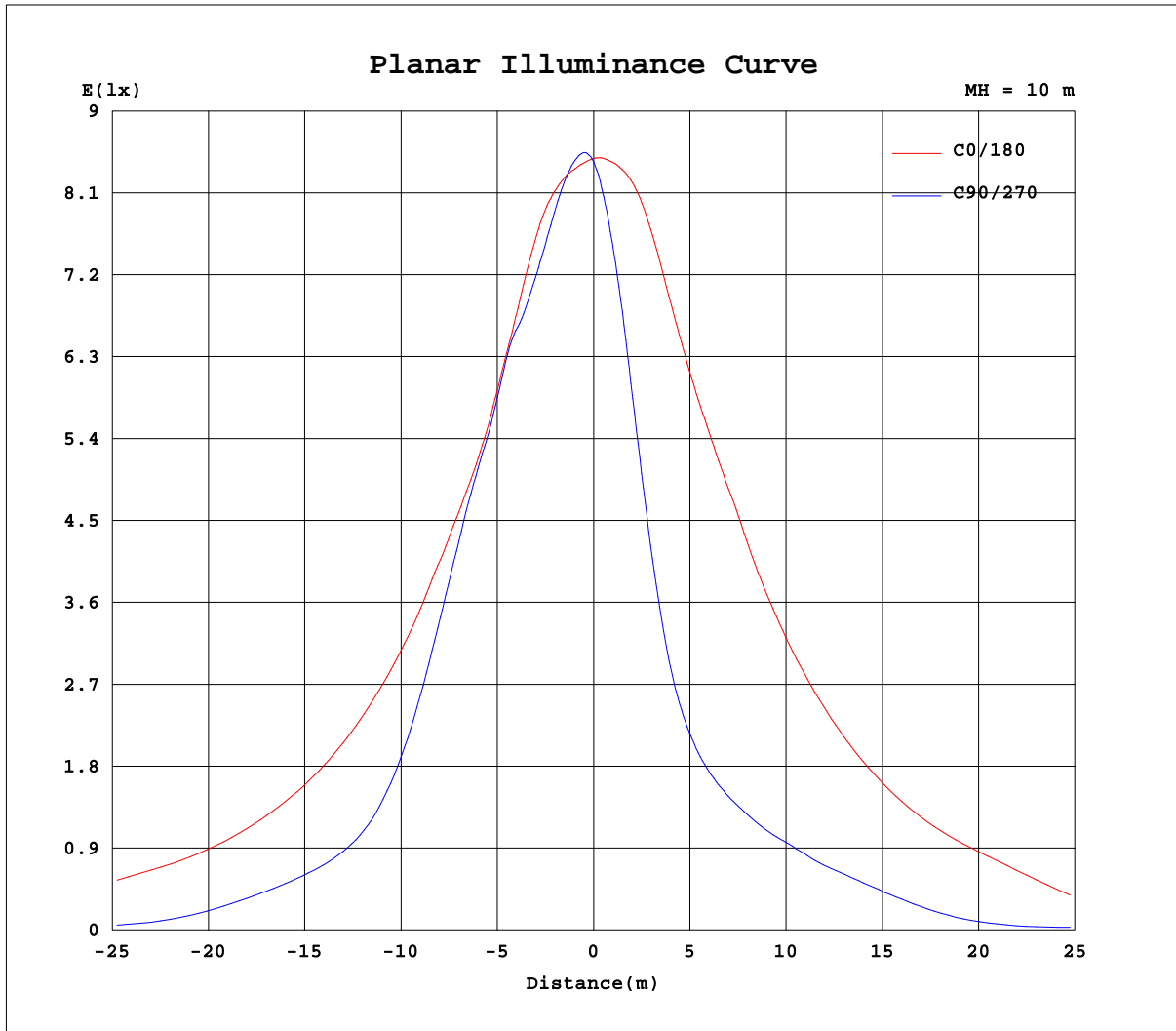
Test:U:37.90V I:0.3900A P:14.78W PF:0.9520 Lamp Flux:2444.8x1 lm		
NAME:	TYPE:	WEIGHT:5
SPEC.:SLT-16C	DIM.:	SERIAL No.:
MFR.: Shen Zhen Xing Sheng Yang Opto-electronics	Technology Co.Ltd	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-04-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

Planar Illuminance Curve



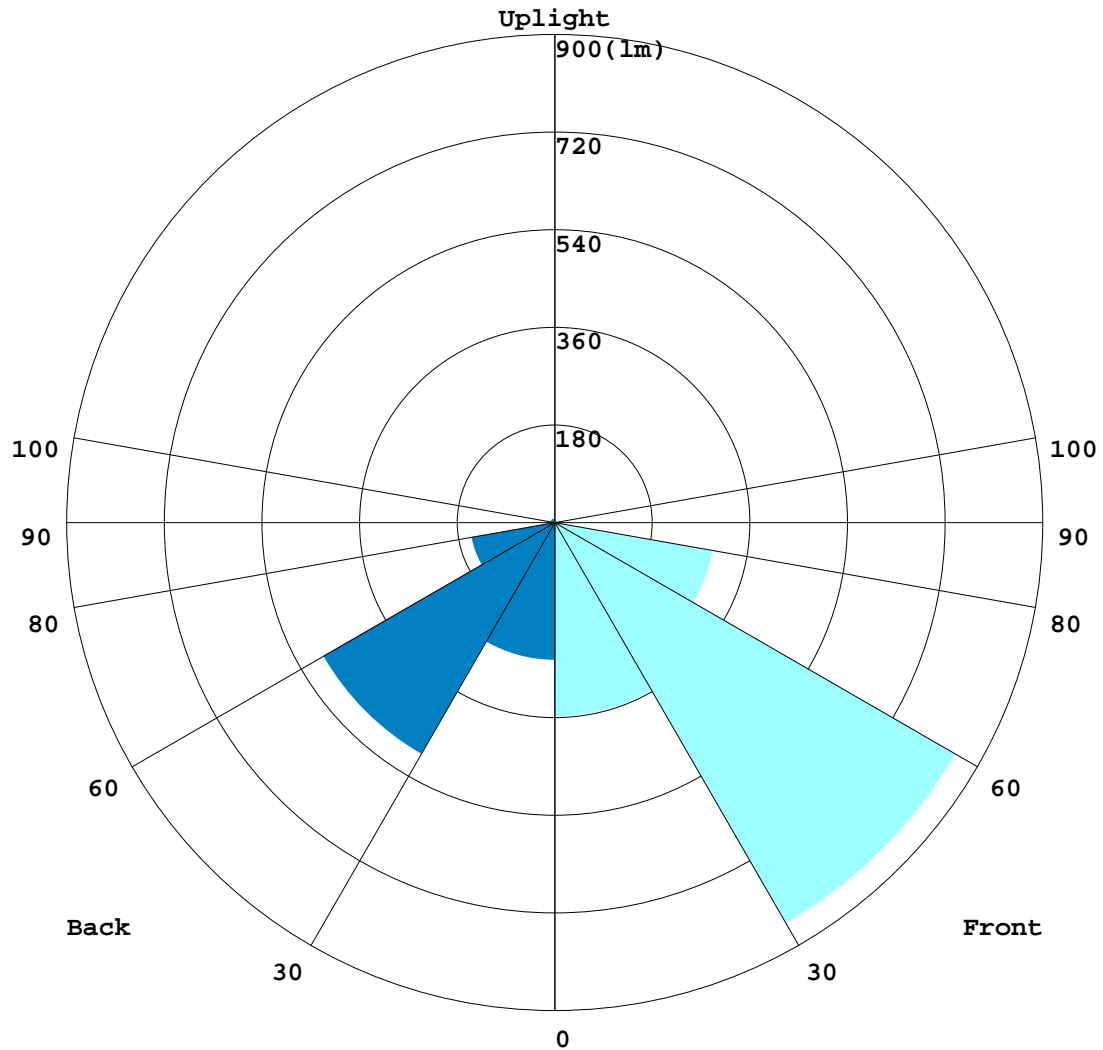
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2017-04-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=1.0000]  
 Remarks:

LCS REPORT

Test:U:37.90V I:0.3900A P:14.78W PF:0.9520 Lamp Flux:2444.8x1 lm		
NAME:	TYPE:	WEIGHT:5
SPEC.:SLT-16C	DIM.:	SERIAL No.:
MFR.: Shen Zhen Xing Sheng Yang Opto-electronics	Technology Co.Ltd	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-04-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

## BUG REPORT

Test:U:37.90V I:0.3900A P:14.78W PF:0.9520 Lamp Flux:2444.8x1 lm		
NAME:	TYPE:	WEIGHT:5
SPEC.:SLT-16C	DIM.:	SERIAL No.:
MFR.: Shen Zhen Xing Sheng Yang Opto-electronics	Technology Co.Ltd	Shielding Angle:

## IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	358.27	14.7
FM - Front-Medium(30-60)	853.24	34.9
FH - Front-High(60-80)	296.55	12.1
FVH - Front-Very High(80-90)	11.376	0.5
Total Forward Light	1526.9	62.5

BL - Back-Low(0-30)	253.82	10.4
BM - Back-Medium(30-60)	492.7	20.2
BH - Back-High(60-80)	156.01	6.4
BVH - Back-Very High(80-90)	6.9175	0.3
Total Back Light	917.89	37.5

UL - Uplight-Low(90-100)	2.7193	0.1
UH - Uplight-High(100-180)	13.206	0.5
Total Up Light	15.925	0.7

BUG(Back,Up,Glare) Rating	B1-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	909.44	8.4437	917.89
Street Side	1519.4	7.4813	1526.9

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-04-20

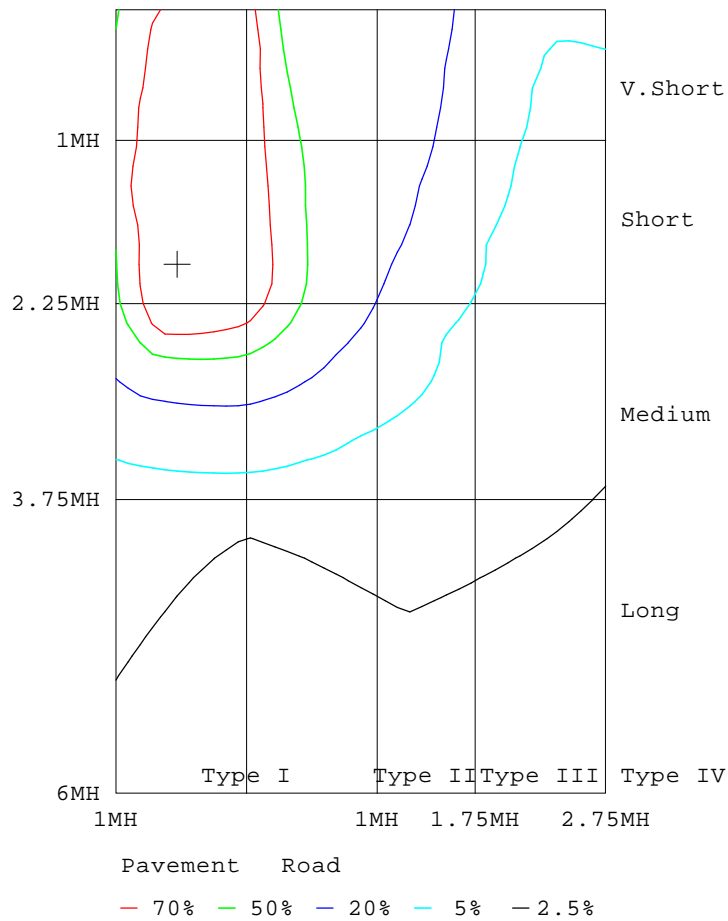
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:



ROAD ISOCANDELA REPORT

Test:U:37.90V I:0.3900A P:14.78W PF:0.9520 Lamp Flux:2444.8x1 lm		
NAME:	TYPE:	WEIGHT:5
SPEC.:SLT-16C	DIM.:	SERIAL No.:
MFR.: Shen Zhen Xing Sheng Yang Opto-electronics	Technology Co.Ltd	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-04-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:37.90V I:0.3900A P:14.78W PF:0.9520 Lamp Flux:2444.8x1 lm		
NAME:	TYPE:	WEIGHT:5
SPEC.:SLT-16C	DIM.:	SERIAL No.:
MFR.: Shen Zhen Xing Sheng Yang Opto-electronics	Technology Co.Ltd	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844
5	844	854	858	860	859	859	858	861	863	866	865	860	851	837	821	805	792	780	776
10	855	870	868	860	849	846	845	853	861	874	881	880	865	834	794	749	708	674	663
15	864	883	874	852	829	820	822	836	855	876	891	893	871	827	760	676	599	541	522
20	851	873	861	843	820	811	816	837	858	874	882	887	863	804	706	586	487	418	396
25	832	852	839	842	833	818	827	855	879	877	872	874	854	779	645	500	394	335	316
30	817	847	827	811	808	795	807	846	862	857	863	878	861	761	589	433	342	296	280
35	833	842	792	799	814	784	777	829	863	855	850	885	879	741	539	393	318	281	268
40	854	851	804	822	789	715	683	744	823	878	863	887	890	715	497	373	308	275	266
45	866	862	843	829	695	576	539	595	716	873	915	909	905	683	466	358	297	269	273
50	891	911	919	769	527	430	413	450	546	788	973	960	925	644	439	340	290	269	271
55	923	990	963	592	399	369	364	383	410	585	969	1032	943	601	413	332	286	258	263
60	964	1119	856	424	363	340	323	332	347	406	796	1106	950	556	386	282	216	181	189
65	1011	1249	578	345	264	218	189	192	215	274	460	1129	941	478	264	130	84.0	68.8	80.3
70	942	962	233	131	89.8	80.4	61.9	78.3	81.0	95.3	136	554	455	213	72.0	49.9	43.6	38.1	68.7
75	231	101	53.0	48.5	50.9	45.9	66.0	45.8	50.0	47.5	49.7	47.5	38.7	38.8	39.1	35.6	33.0	29.6	78.1
80	25.4	38.8	32.2	33.6	39.7	31.7	40.8	30.4	38.2	31.8	29.2	29.9	17.5	23.4	21.3	19.9	22.6	20.1	45.8
85	15.7	29.3	23.1	21.7	30.9	16.7	17.1	15.6	26.6	20.1	20.9	21.2	9.55	10.8	11.2	9.81	10.0	9.41	18.1
90	7.33	20.2	9.85	10.5	7.45	5.72	0.25	5.03	5.47	7.60	6.77	12.6	4.56	5.31	5.11	3.31	2.93	2.03	1.78
95	4.08	4.29	3.02	2.71	1.84	1.66	0.30	1.61	1.50	2.48	2.80	3.54	3.42	2.95	1.93	0.66	0.40	0.35	0.34
100	2.26	1.40	0.87	0.63	0.66	0.77	0.42	0.69	0.56	0.68	1.03	1.76	1.60	1.65	1.41	0.88	0.62	0.53	0.54
105	2.28	1.79	1.19	0.86	0.68	0.64	0.61	0.65	0.70	0.92	1.34	2.19	2.12	2.24	1.98	1.38	0.95	0.78	0.78
110	2.81	2.24	1.52	1.10	0.88	0.82	0.76	0.82	0.90	1.16	1.70	2.56	2.53	2.68	2.48	1.89	1.36	1.08	1.08
115	3.17	2.62	1.83	1.35	1.07	1.00	0.94	1.00	1.09	1.41	1.98	2.89	2.81	2.91	2.80	2.32	1.79	1.46	1.45
120	3.45	2.88	2.11	1.58	1.28	1.18	1.11	1.18	1.29	1.65	2.25	3.10	2.95	3.08	3.06	2.69	2.21	1.92	1.90
125	3.58	3.12	2.38	1.83	1.48	1.38	1.29	1.37	1.46	1.88	2.51	3.28	3.15	3.29	3.33	3.03	2.61	2.37	2.34
130	3.82	3.36	2.62	2.06	1.70	1.55	1.46	1.54	1.63	2.08	2.64	3.32	3.39	3.40	3.42	3.29	2.93	2.82	2.80
135	3.97	3.50	2.83	2.30	1.90	1.75	1.65	1.73	1.82	2.25	2.80	3.33	3.57	3.55	3.48	3.39	3.21	3.19	3.19
140	3.98	3.54	3.03	2.52	2.12	1.96	1.84	1.93	2.05	2.43	2.89	3.33	3.73	3.82	3.71	3.55	3.45	3.55	3.54
145	3.94	3.58	3.15	2.73	2.38	2.21	2.11	2.22	2.40	2.65	2.98	3.34	3.73	3.99	3.96	3.72	3.70	3.81	3.85
150	3.89	3.62	3.29	2.96	2.65	2.53	2.48	2.55	2.68	2.91	3.09	3.37	3.72	4.00	4.10	3.98	3.93	4.00	4.05
155	3.86	3.69	3.42	3.21	2.97	2.89	2.85	2.94	3.04	3.17	3.31	3.47	3.73	3.99	4.17	4.19	4.23	4.19	4.23
160	3.87	3.80	3.60	3.46	3.30	3.26	3.23	3.32	3.35	3.44	3.45	3.59	3.79	4.00	4.20	4.33	4.45	4.47	4.45
165	3.92	3.93	3.79	3.69	3.57	3.59	3.60	3.64	3.64	3.68	3.64	3.73	3.85	4.01	4.23	4.46	4.60	4.63	4.67
170	4.04	4.04	3.92	3.89	3.83	3.88	3.89	3.93	3.90	3.91	3.85	3.88	3.95	4.05	4.21	4.46	4.60	4.71	4.77
175	4.07	4.14	4.06	4.08	4.06	4.13	4.15	4.17	4.15	4.09	4.02	4.06	4.06	4.08	4.21	4.38	4.52	4.65	4.62
180	4.12	4.15	4.16	4.22	4.27	4.37	4.35	4.37	4.34	4.27	4.21	4.24	4.13	4.14	4.20	4.26	4.34	4.44	4.41

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-04-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:37.90V I:0.3900A P:14.78W PF:0.9520 Lamp Flux:2444.8x1 lm		
NAME:	TYPE:	WEIGHT:5
SPEC.:SLT-16C	DIM.:	SERIAL No.:
MFR.: Shen Zhen Xing Sheng Yang Opto-electronics	Technology Co.Ltd	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	844	844	844	844	844														
5	777	787	800	817	832														
10	669	697	737	785	828														
15	531	579	651	740	814														
20	407	462	552	671	778														
25	325	368	456	593	737														
30	288	318	385	525	703														
35	273	294	349	475	677														
40	266	284	332	441	654														
45	265	278	324	422	633														
50	270	276	314	408	612														
55	274	285	313	386	591														
60	203	233	296	374	552														
65	76.5	99.8	167	318	497														
70	38.4	44.9	55.8	113	318														
75	30.3	34.5	40.6	41.4	55.3														
80	20.8	24.4	23.6	26.1	26.4														
85	10.3	12.1	11.9	14.6	15.6														
90	2.46	3.39	4.41	7.67	7.29														
95	0.31	0.36	1.12	2.31	3.30														
100	0.51	0.56	0.72	1.13	1.50														
105	0.75	0.86	1.18	1.66	2.00														
110	1.07	1.26	1.67	2.19	2.57														
115	1.46	1.72	2.15	2.61	2.95														
120	1.92	2.20	2.58	3.00	3.24														
125	2.38	2.62	3.01	3.38	3.46														
130	2.80	3.04	3.39	3.76	3.71														
135	3.20	3.38	3.73	4.03	3.86														
140	3.56	3.67	3.96	4.22	4.03														
145	3.85	3.96	4.16	4.39	4.24														
150	4.08	4.13	4.26	4.40	4.35														
155	4.23	4.25	4.30	4.39	4.35														
160	4.41	4.39	4.35	4.38	4.32														
165	4.60	4.53	4.46	4.41	4.33														
170	4.67	4.61	4.55	4.41	4.35														
175	4.59	4.55	4.51	4.41	4.35														
180	4.43	4.40	4.33	4.29	4.29														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-04-20

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.279  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks: