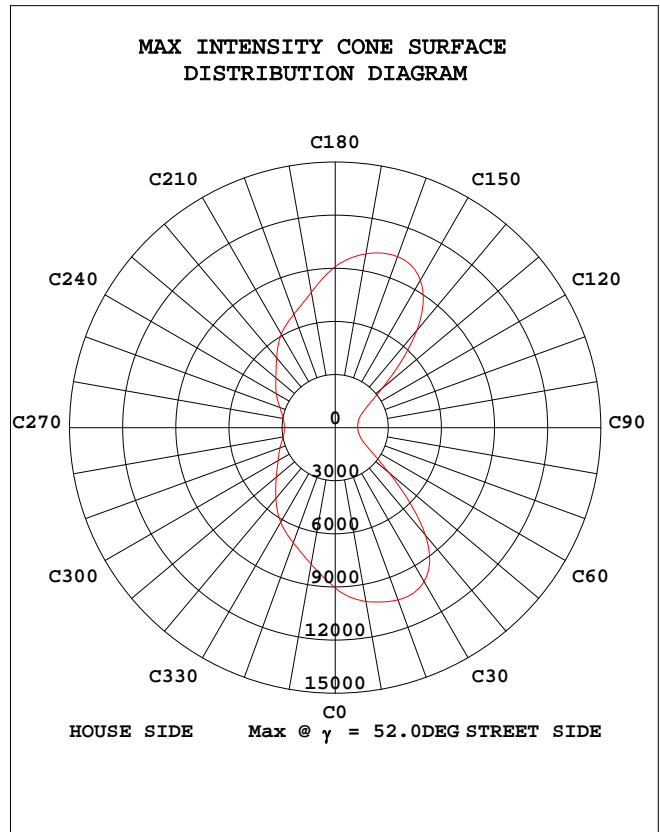
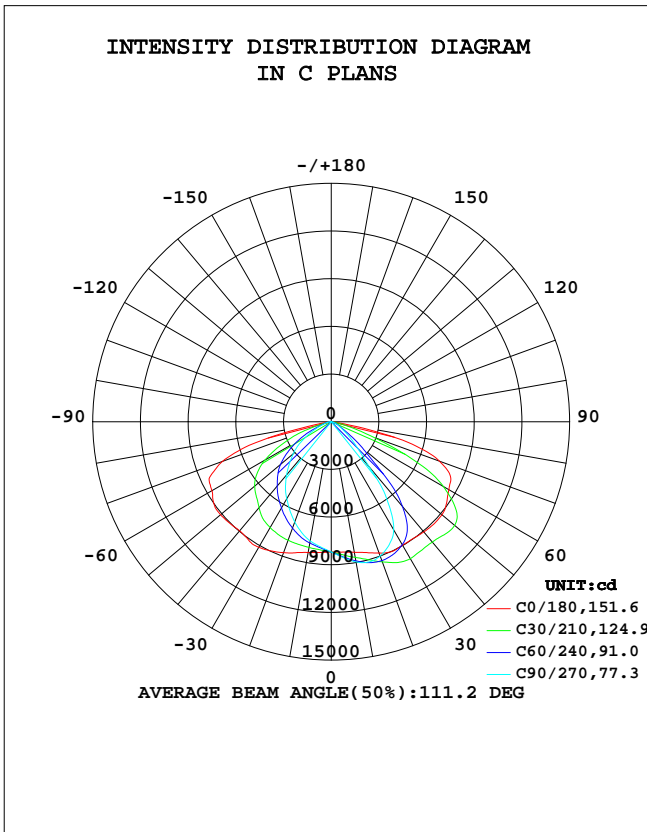


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.06V I:0.8351A P:179.19W PF:0.9751 Freq:50.00Hz Lamp Flux:25568.5x1 lm		
NAME: LED street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Sinoco Lighting Technologies Co., Ltd.	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 142.69 lm/W			
MODEL	ST-52-180W	I _{max} (cd)	10349	η street_up(%)	0.0
NOMINAL POWER(W)	180	LOR(%)	100.0	η street_down(%)	53.7
RATED VOLTAGE(V)	100-240	TOTAL FLUX(lm)	25569	η house_up(%)	0.0
NOMINAL FLUX(lm)	25568.5	MAXIMUM @(C,γ)	20,52.0	η house_down(%)	46.3
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220	η down(%)	100.0	SLI	21.668

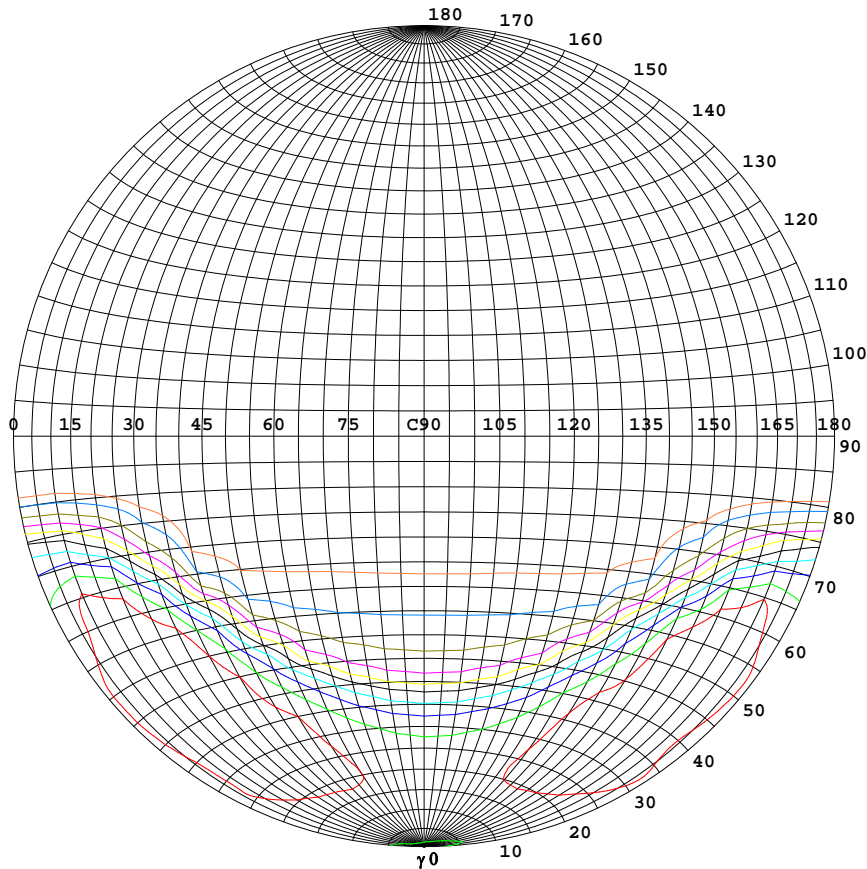


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-01-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3825]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.06V I:0.8351A P:179.19W PF:0.9751 Freq:50.00Hz Lamp Flux:25568.5x1 lm		
NAME: LED street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Sinoco Lighting Technologies Co., Ltd.	CSR.:	Shielding Angle:N/A



Classification:

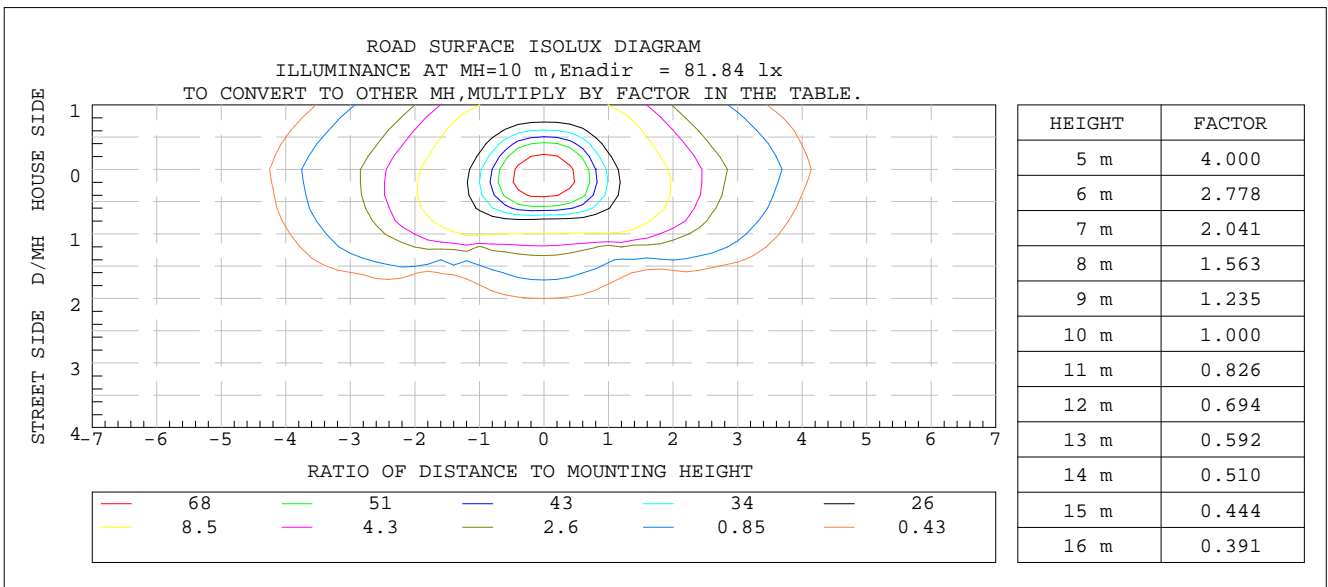
IES:Type VS - Short
 CIE:Narrow - Short
 IES:Full cut-off
 CIE:Semi-cut-off
 Max.At80:41.14cd/klm
 Max.At90:0cd/klm
 Max.80-90:41.14cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	10349
90%	9314
80%	8279
70%	7244
60%	6209
50%	5174
40%	4139
30%	3105
20%	2070
10%	1035
5%	517

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-01-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3825]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: William
Test Date: 2019-01-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity: 65.7%
Test Distance: 26.000m [K=1.3825]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:220.06V I:0.8351A P:179.19W PF:0.9751 Freq:50.00Hz Lamp Flux:25568.5x1 lm		
NAME: LED street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Sinoco Lighting Technologies Co., Ltd.	CUR.:	Shielding Angle:N/A

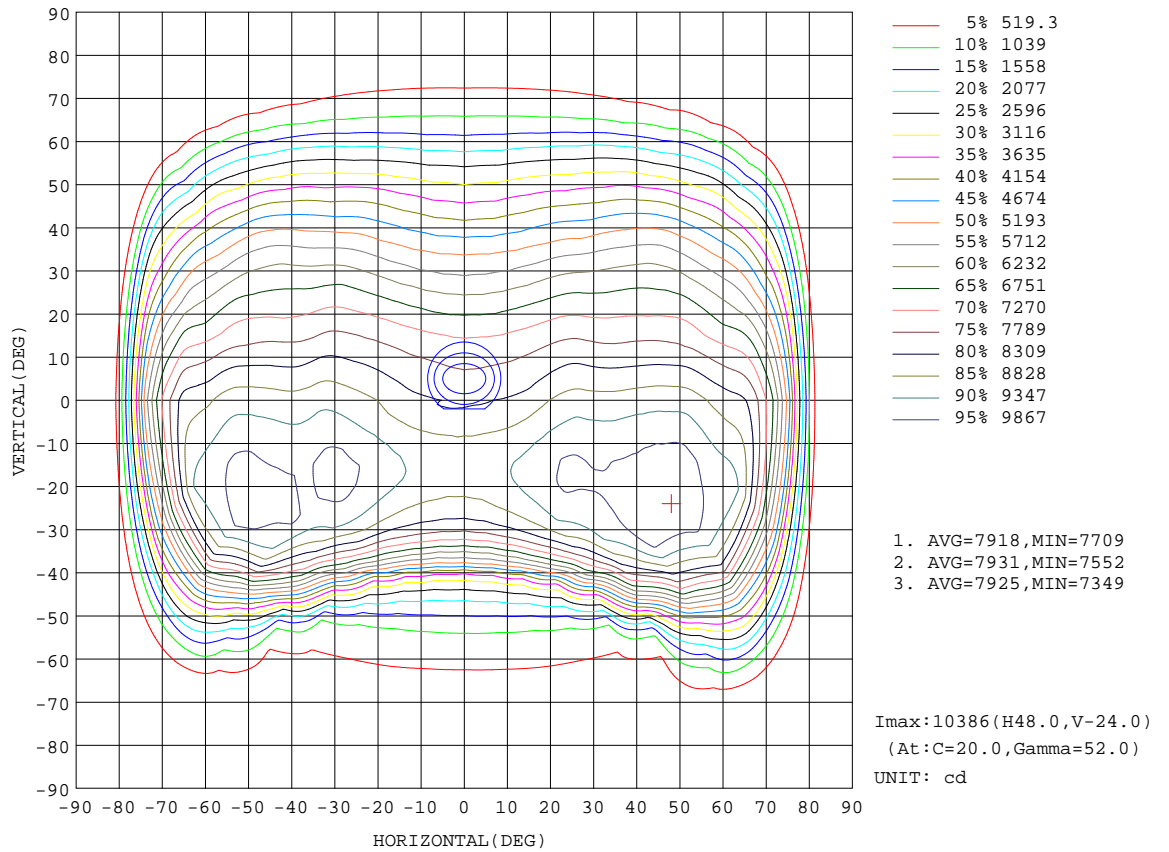
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	833.9	879.2	895.3	880.7	835.2	787.5	762.0	787.2	0- 10	789.5	789.5	3.09,3.09
20	879.3	940.7	899.3	937.2	876.8	752.4	672.0	749.2	10- 20	2375	3165	12.4,12.4
30	897.1	965.4	786.0	951.5	912.4	697.6	559.4	695.5	20- 30	3828	6993	27.3,27.3
40	905.5	906.7	375.1	895.9	896.7	625.9	438.2	613.2	30- 40	4786	11778	46.1,46.1
50	910.0	680.8	155.1	610.8	909.7	504.4	311.6	504.1	40- 50	4903	16682	65.2,65.2
60	854.6	246.7	63.03	180.3	867.3	340.4	174.3	348.4	50- 60	4431	21113	82.6,82.6
70	723.5	39.56	24.70	35.08	728.0	120.9	66.38	125.7	60- 70	3171	24284	95,95
80	105.2	5.640	1.594	3.741	76.62	20.81	22.65	23.53	70- 80	1220	25504	99.7,99.7
90	0	0	0	0	0	0	0	0	80- 90	64.25	25569	100,100
100	0	0	0	0	0	0	0	0	90-100	0	25569	100,100
110	0	0	0	0	0	0	0	0	100-110	0	25569	100,100
120	0	0	0	0	0	0	0	0	110-120	0	25569	100,100
130	0	0	0	0	0	0	0	0	120-130	0	25569	100,100
140	0	0	0	0	0	0	0	0	130-140	0	25569	100,100
150	0	0	0	0	0	0	0	0	140-150	0	25569	100,100
160	0	0	0	0	0	0	0	0	150-160	0	25569	100,100
170	0	0	0	0	0	0	0	0	160-170	0	25569	100,100
180	0	0	0	0	0	0	0	0	170-180	0	25569	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-01-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3825]
 Remarks:

ISOCANDELA DIAGRAM

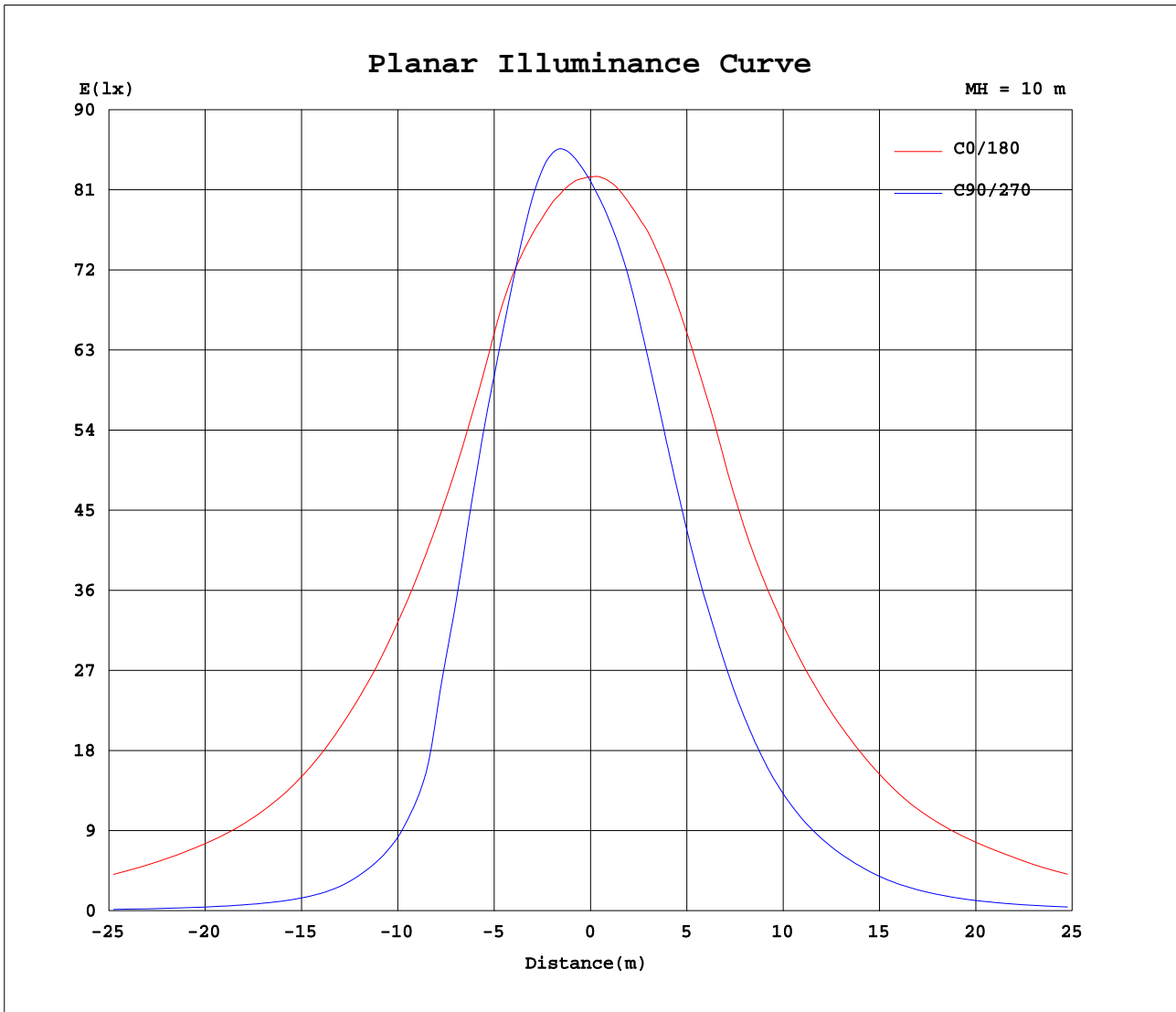
Test:U:220.06V I:0.8351A P:179.19W PF:0.9751 Freq:50.00Hz Lamp Flux:25568.5x1 lm		
NAME: LED street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Sinoco Lighting Technologies Co.,Ltd	SUR.:	Shielding Angle:N/A



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 24.5DEG
 Operators: William
 Test Date: 2019-01-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity: 65.7%
 Test Distance: 26.000m [K=1.3825]
 Remarks:

Planar Illuminance Curve



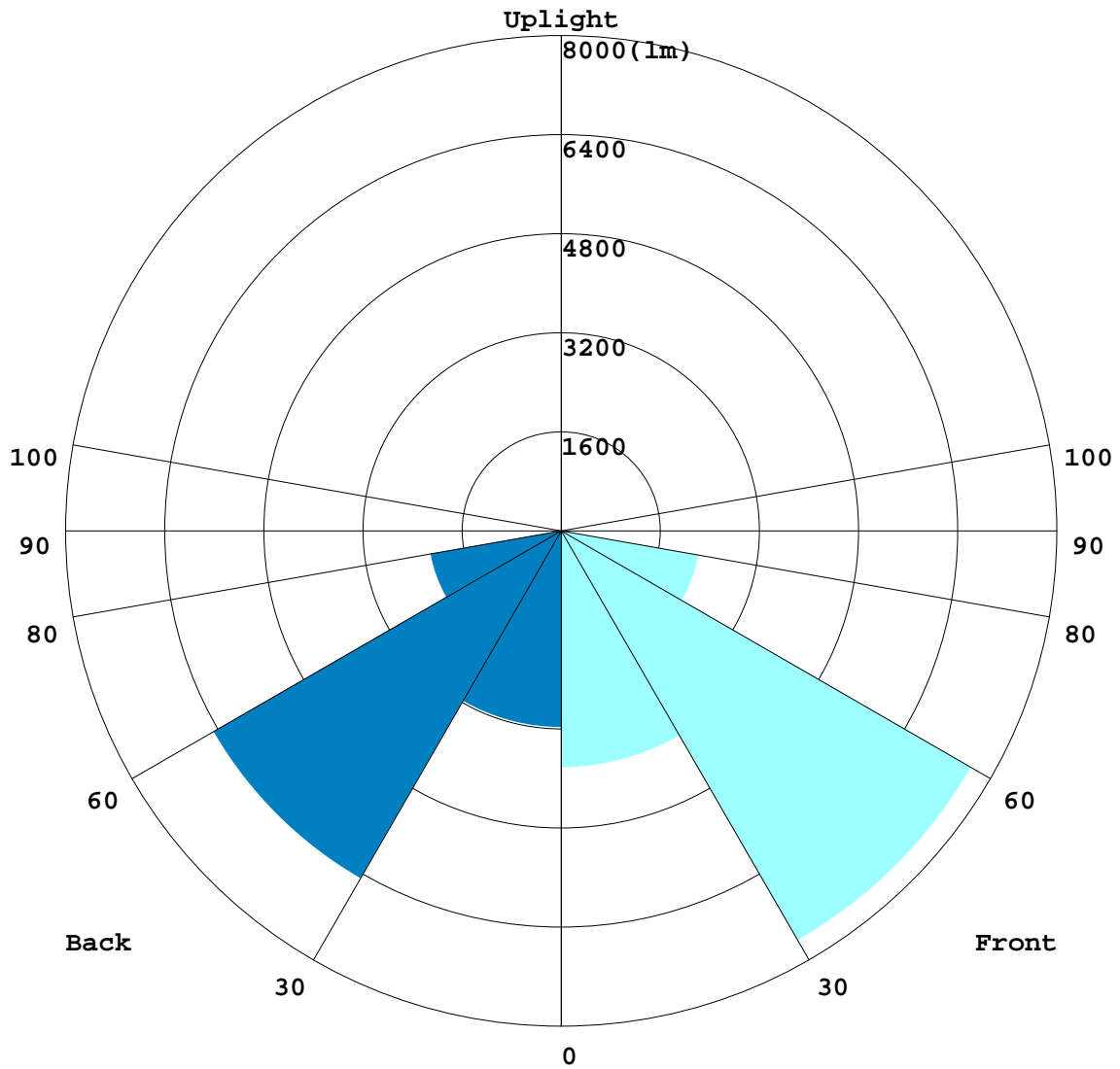
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: William
Test Date: 2019-01-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity: 65.7%
Test Distance: 26.000m [K=1.3825]
Remarks:

LCS REPORT

Test:U:220.06V I:0.8351A P:179.19W PF:0.9751 Freq:50.00Hz Lamp Flux:25568.5x1 lm		
NAME: LED street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Sinoco Lighting Technologies Co., Ltd.	LSUR.:	Shielding Angle:N/A

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-01-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3825]
 Remarks:

BUG REPORT

Test:U:220.06V I:0.8351A P:179.19W PF:0.9751 Freq:50.00Hz Lamp Flux:25568.5x1 lm		
NAME: LED street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Sinoco Lighting Technologies Co., Ltd.	SUR.:	Shielding Angle:N/A

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	3819.8	14.9
FM - Front-Medium(30-60)	7639.5	29.9
FH - Front-High(60-80)	2251	8.8
FVH - Front-Very High(80-90)	21.864	0.1
Total Forward Light	13732	53.7

BL - Back-Low(0-30)	3172.9	12.4
BM - Back-Medium(30-60)	6480.3	25.3
BH - Back-High(60-80)	2140.7	8.4
BVH - Back-Very High(80-90)	42.39	0.2
Total Back Light	11836	46.3

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	B4-U0-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	11836	0	11836
Street Side	13732	0	13732

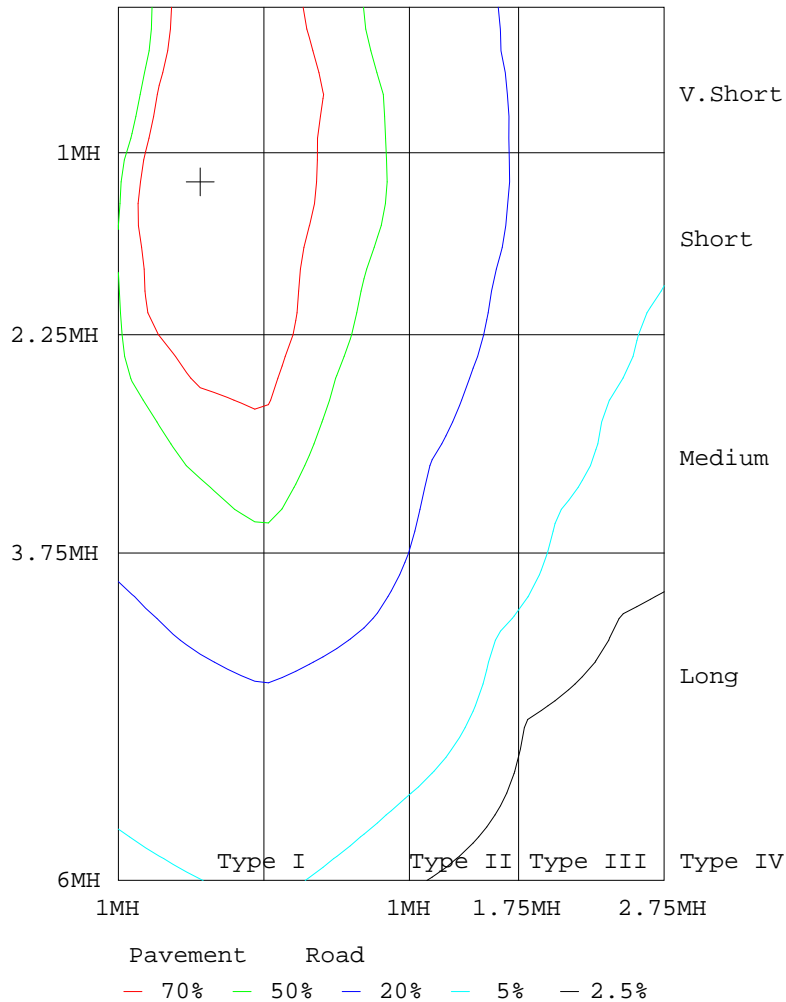
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-01-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3825]
 Remarks:

ROAD ISOCANDELA REPORT

Test:U:220.06V I:0.8351A P:179.19W PF:0.9751 Freq:50.00Hz Lamp Flux:25568.5x1 lm		
NAME: LED street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Sinoco Lighting Technologies Co., Ltd.	SUR.:	Shielding Angle:N/A

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-01-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3825]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.06V I:0.8351A P:179.19W PF:0.9751 Freq:50.00Hz Lamp Flux:25568.5x1 lm		
NAME: LED street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Sinoco Lighting Technologies Co., Ltd.	SUR.:	Shielding Angle:N/A

Table--1

UNIT: x10cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820
5	824	827	834	840	845	849	853	854	855	857	856	855	851	850	845	840	836	831	826
10	834	842	856	866	875	883	889	892	894	895	893	893	890	884	877	868	859	849	835
15	852	868	885	899	908	916	918	917	914	914	914	917	916	915	909	899	887	873	853
20	879	902	925	938	942	939	930	918	907	899	903	913	922	934	940	935	923	901	877
25	901	932	962	978	972	950	922	894	868	858	863	881	906	938	963	972	958	932	897
30	897	938	974	995	985	946	894	846	803	786	797	829	874	927	976	998	990	959	912
35	897	945	978	989	971	929	834	734	654	626	646	715	803	904	978	1013	999	961	907
40	905	966	994	989	957	857	699	544	422	375	406	515	662	835	957	991	986	956	897
45	912	981	1011	1005	928	730	458	302	251	233	243	286	414	688	885	990	1000	973	904
50	910	996	1029	1013	843	519	257	186	163	155	159	177	239	449	773	980	1018	990	910
55	887	982	1025	957	693	252	135	105	96.7	95.1	95.2	99.6	120	209	600	919	1033	996	901
60	855	960	980	814	406	86.8	68.9	66.0	64.0	63.0	63.2	65.1	66.9	75.0	286	734	963	976	867
65	829	938	880	576	113	50.8	47.3	45.4	43.2	41.7	42.5	44.4	46.0	49.3	85.0	420	815	927	848
70	724	754	627	276	46.1	33.0	29.9	27.2	25.3	24.7	25.0	26.1	28.1	30.8	39.4	182	491	678	728
75	499	454	314	106	22.4	16.7	14.4	12.2	10.9	10.6	10.5	11.2	12.7	14.3	18.1	59.2	205	341	452
80	105	95.9	64.3	22.9	6.65	4.63	3.47	2.22	1.74	1.59	1.56	1.79	2.42	3.20	4.28	9.16	33.5	54.3	76.6
85	3.26	2.94	2.22	1.46	0.83	0.39	0.18	0.12	0.10	0.10	0.10	0.10	0.12	0.13	0.29	0.68	1.22	1.68	2.21
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
95	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
100	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
105	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
110	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
115	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
120	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
125	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
130	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
135	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
140	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
145	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
150	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
155	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
160	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
165	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
170	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
175	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
180	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: 10.0DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-01-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3825]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.06V I:0.8351A P:179.19W PF:0.9751 Freq:50.00Hz Lamp Flux:25568.5x1 lm		
NAME: LED street light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: Shenzhen Sinoco Lighting Technologies Co., Ltd.	SUR.:	Shielding Angle:N/A

Table--2

UNIT: x10cd

C(DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820		
5	818	815	809	803	799	796	793	791	790	791	793	795	799	803	807	812	818		
10	824	814	803	791	784	776	769	764	762	764	769	775	783	792	801	811	822		
15	833	818	799	780	764	749	736	725	721	726	733	745	762	778	797	816	834		
20	848	823	794	767	738	713	691	676	672	676	688	710	736	763	793	825	853		
25	859	822	785	746	708	672	642	623	616	622	640	670	705	745	786	827	867		
30	865	815	769	721	674	626	590	567	559	567	589	625	671	720	766	807	854		
35	850	795	748	693	635	580	538	511	502	511	536	578	633	685	729	780	840		
40	822	754	706	658	594	530	481	450	438	448	478	524	585	641	698	758	831		
45	808	725	667	603	538	477	425	387	372	384	421	471	521	601	671	736	818		
50	788	697	629	541	468	416	360	325	312	323	357	404	462	547	635	705	796		
55	755	655	571	473	389	335	291	258	247	259	292	330	390	481	579	662	755		
60	694	579	482	377	304	247	210	183	174	184	211	252	311	386	489	586	695		
65	629	470	351	268	206	159	130	117	113	117	130	162	213	276	367	486	632		
70	492	315	222	146	96.2	78.4	71.1	68.1	66.4	68.0	71.7	80.4	99.6	152	239	347	510		
75	301	136	73.9	45.7	41.5	42.2	41.8	39.9	39.5	40.0	42.6	43.7	44.4	51.4	86.3	161	315		
80	43.0	18.5	18.4	20.1	21.5	22.8	21.9	22.2	22.6	22.8	23.0	24.3	23.9	23.1	22.5	23.5	60.2		
85	2.27	2.49	3.21	4.66	5.78	5.88	5.63	5.88	6.00	6.38	6.42	7.06	7.29	6.40	4.92	4.18	3.88		
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		
95	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		
100	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		
105	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		
110	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		
115	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		
120	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		
125	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		
130	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		
135	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		
140	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		
145	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		
150	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		
155	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		
160	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		
165	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		
170	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		
175	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		
180	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: 10.0DEG
 Test Speed: HIGH
 Temperature:24.5DEG
 Operators:William
 Test Date:2019-01-04

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:65.7%
 Test Distance:26.000m [K=1.3825]
 Remarks: