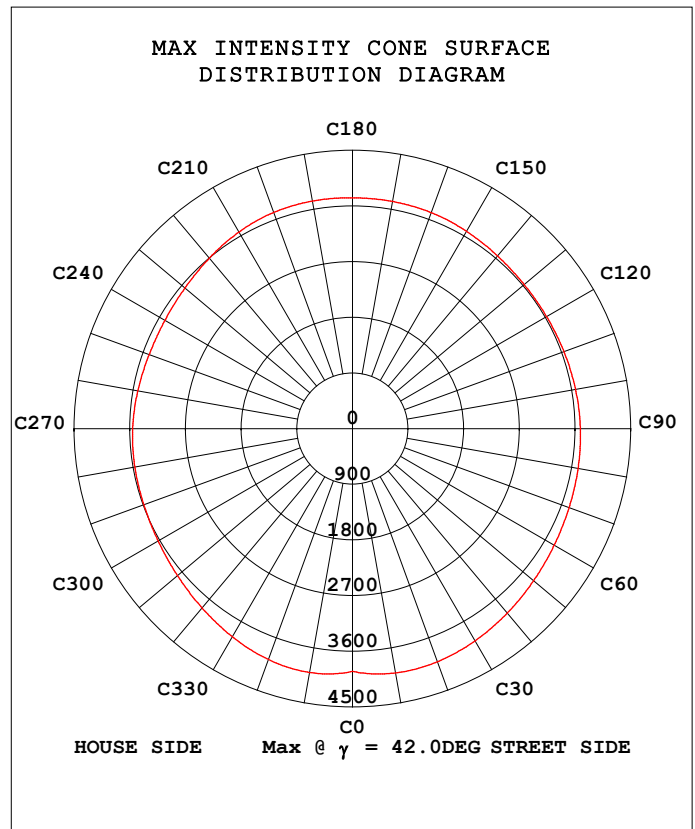
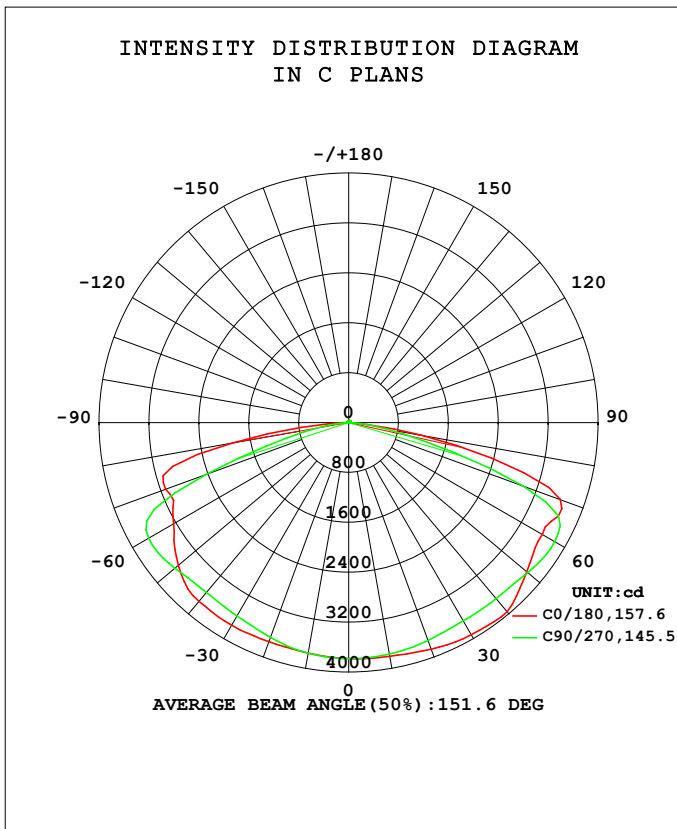


# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.92V I:1.0691A P:127.95W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.72% KDisp:0.9998 Lamp Flux:19094.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 149.23 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-150W-BR-PS-XX	Imax (cd)	4003	$\eta$ street_up (%)	0.4
NOMINAL POWER (W)	150	LOR (%)	100.0	$\eta$ street_down (%)	50.8
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	19095	$\eta$ house_up (%)	0.4
NOMINAL FLUX (lm)	19094.6	MAXIMUM @ (C, $\gamma$ )	23,42.0	$\eta$ house_down (%)	48.4
LAMPS INSIDE	1	$\eta$ up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	$\eta$ down (%)	99.2	SLI	23.849



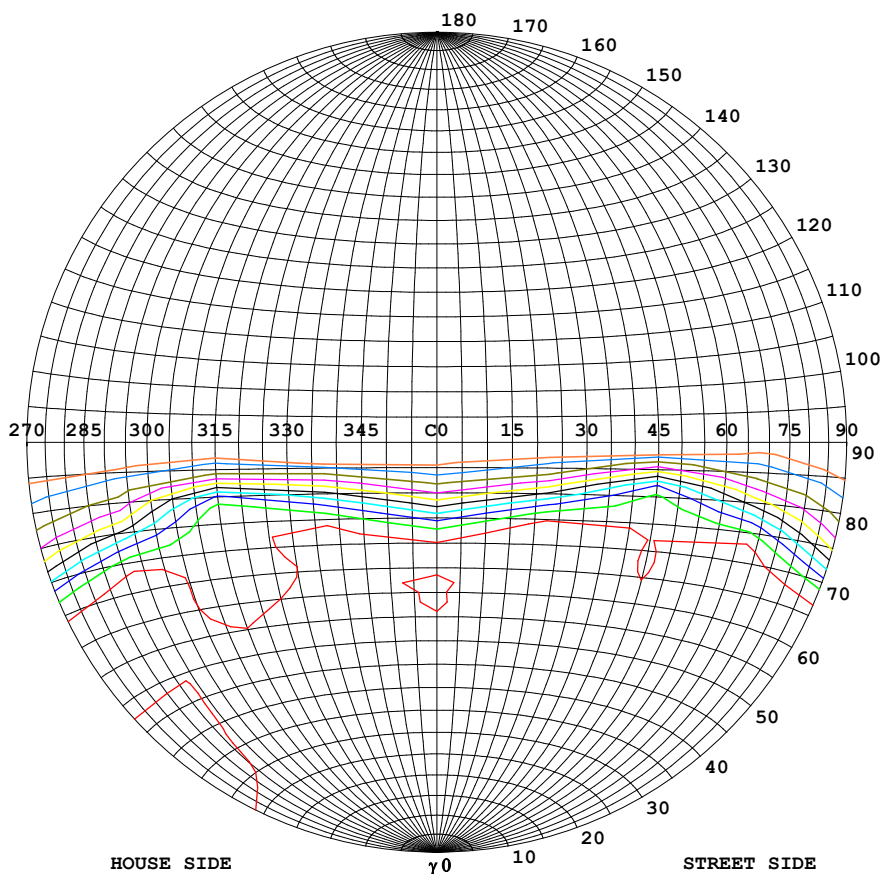
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:23 June 2025

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.471  
Humidity:65.0%  
Test Distance:6.895m [K=0.9935]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.92V I:1.0691A P:127.95W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.72% KDisp:0.9998 Lamp Flux:19094.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



### Classification:

IES:Type VS - Very Short  
 CIE:Broad - Short  
 IES:Semi cut-off  
 CIE:Non-cut-off  
 Max.At80:172.7cd/klm  
 Max.At90:16.64cd/klm  
 Max.80-90:172.7cd/klm

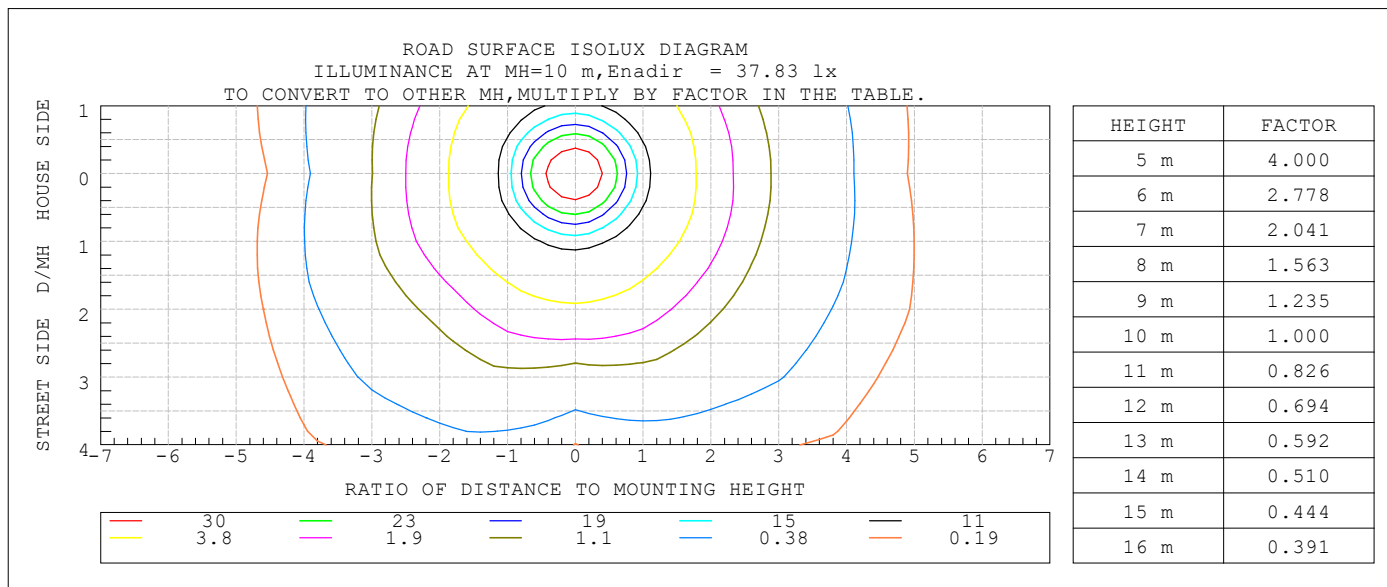
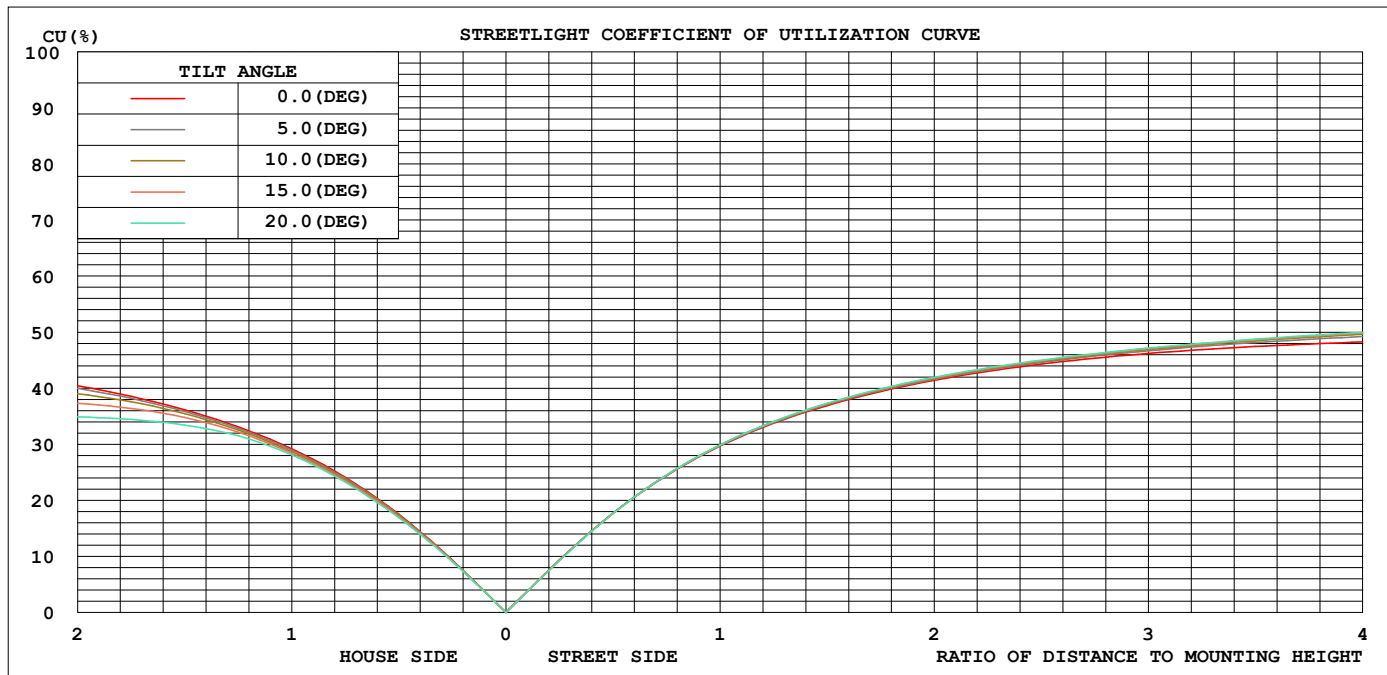
ISOCANDELA DIAGRAM	
UNIT	cd
I <sub>max</sub> =100%	4003
90%	3602
80%	3202
70%	2802
60%	2402
50%	2001
40%	1601
30%	1201
20%	801
10%	400
5%	200

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:23 June 2025

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:6.895m [K=0.9935]  
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: DAMIN  
Test Date: 23 June 2025

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.471  
Humidity: 65.0%  
Test Distance: 6.895m [K=0.9935]  
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ZONAL FLUX DIAGRAM

Test:U:119.92V I:1.0691A P:127.95W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.72% KDisp:0.9998 Lamp Flux:19094.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3802	3792	3768	3751	3752	3753	3753	3769	0- 10	360.4	360.4	1.89,1.89
20	3865	3791	3717	3690	3738	3703	3665	3729	10- 20	1063	1424	7.46,7.46
30	3927	3806	3670	3633	3754	3627	3580	3710	20- 30	1724	3147	16.5,16.5
40	3957	3839	3680	3631	3736	3575	3552	3726	30- 40	2335	5483	28.7,28.7
50	3726	3816	3743	3622	3562	3497	3635	3680	40- 50	2868	8351	43.7,43.7
60	3585	3658	3814	3497	3245	3299	3701	3536	50- 60	3246	11597	60.7,60.7
70	3613	3582	2976	3366	3124	3041	2436	3473	60- 70	3484	15081	79,79
80	1181	3297	638.2	3166	1900	2610	520.3	2864	70- 80	2949	18030	94.4,94.4
90	11.49	14.62	10.51	154.0	13.52	10.57	5.439	9.776	80- 90	914.0	18944	99.2,99.2
100	17.22	16.04	14.81	15.48	14.55	14.92	12.47	14.53	90-100	17.56	18961	99.3,99.3
110	22.81	21.60	21.29	20.54	20.57	20.40	18.52	19.67	100-110	18.60	18980	99.4,99.4
120	28.03	26.66	26.31	26.11	26.65	25.84	23.73	23.85	110-120	22.94	19003	99.5,99.5
130	29.92	28.74	29.66	29.29	30.40	29.28	27.50	26.43	120-130	24.55	19027	99.6,99.6
140	30.43	29.85	30.12	29.83	31.66	30.36	29.44	27.60	130-140	22.61	19050	99.8,99.8
150	30.97	30.59	30.63	29.64	31.67	30.31	29.57	28.23	140-150	18.72	19069	99.9,99.9
160	31.30	31.45	31.25	29.93	32.06	30.84	29.98	29.32	150-160	13.99	19083	99.9,99.9
170	32.46	32.77	31.91	30.86	33.11	32.15	31.40	30.94	160-170	8.820	19092	100,100
180	33.53	33.07	32.23	31.73	33.54	33.06	32.25	31.73	170-180	3.070	19095	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

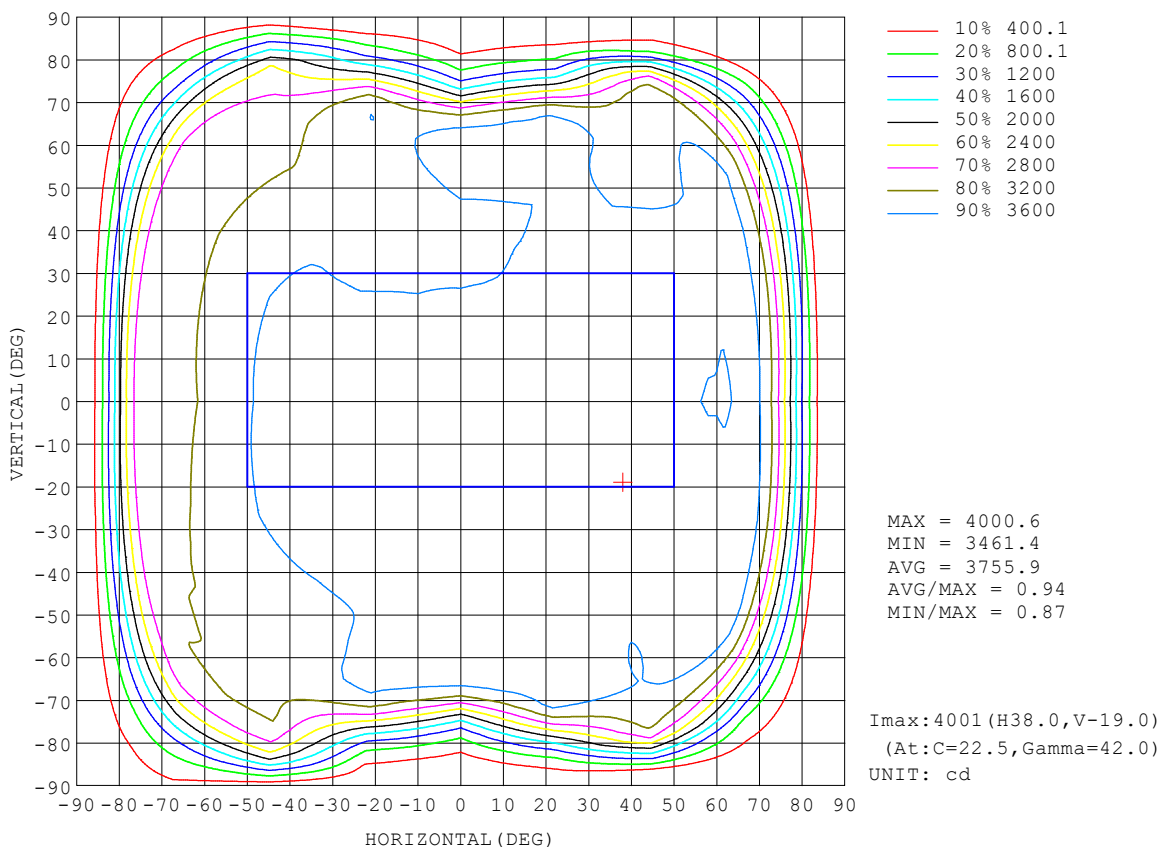
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:23 June 2025

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:6.895m [K=0.9935]  
 Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

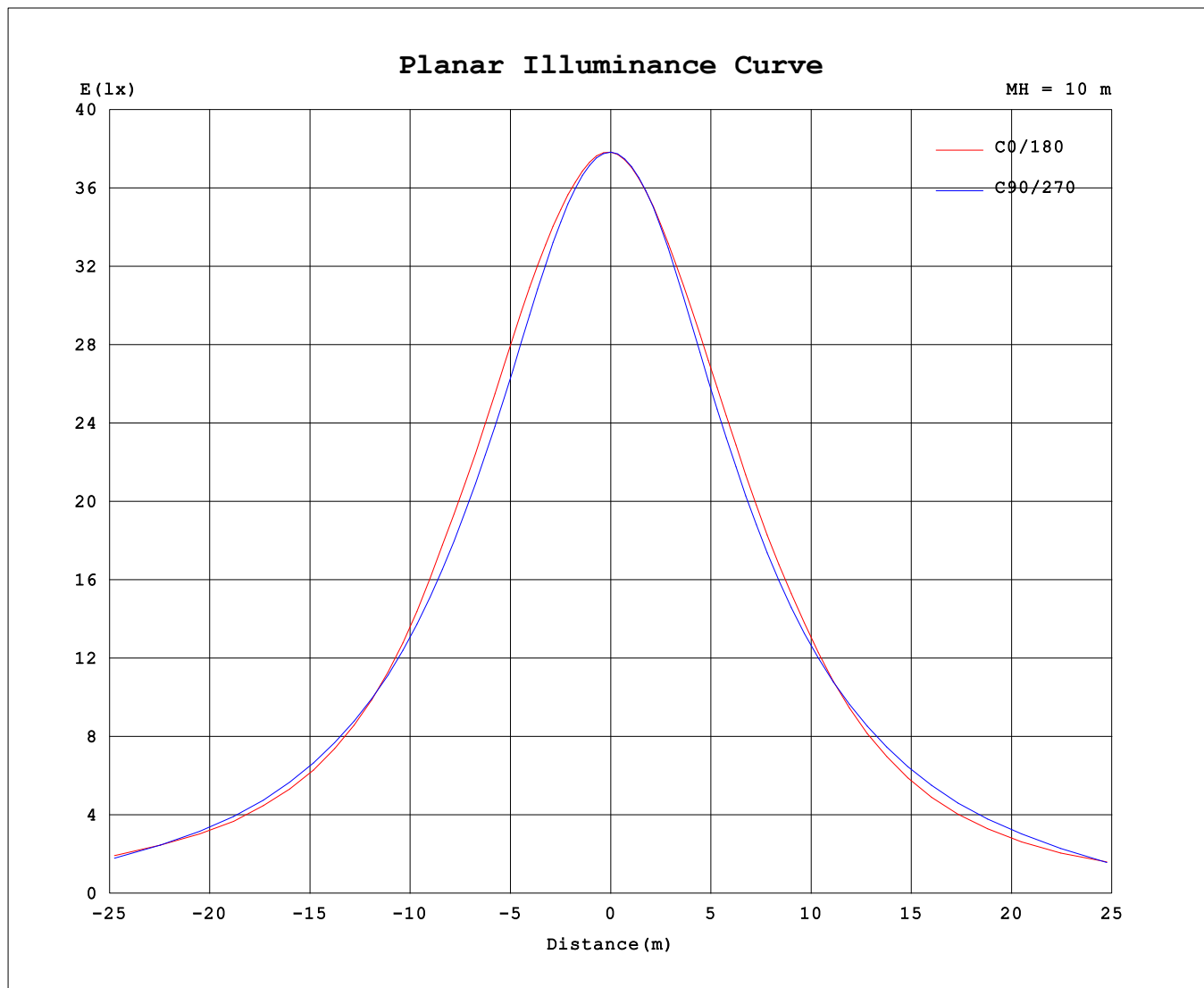
Test:U:119.92V I:1.0691A P:127.95W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.72% KDisp:0.9998 Lamp Flux:19094.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:23 June 2025

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.471  
Humidity:65.0%  
Test Distance:6.895m [K=0.9935]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature: 25.3 °C

Operators: DAMIN

Test Date: 23 June 2025

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.471

Humidity: 65.0%

Test Distance: 6.895m [K=0.9935]

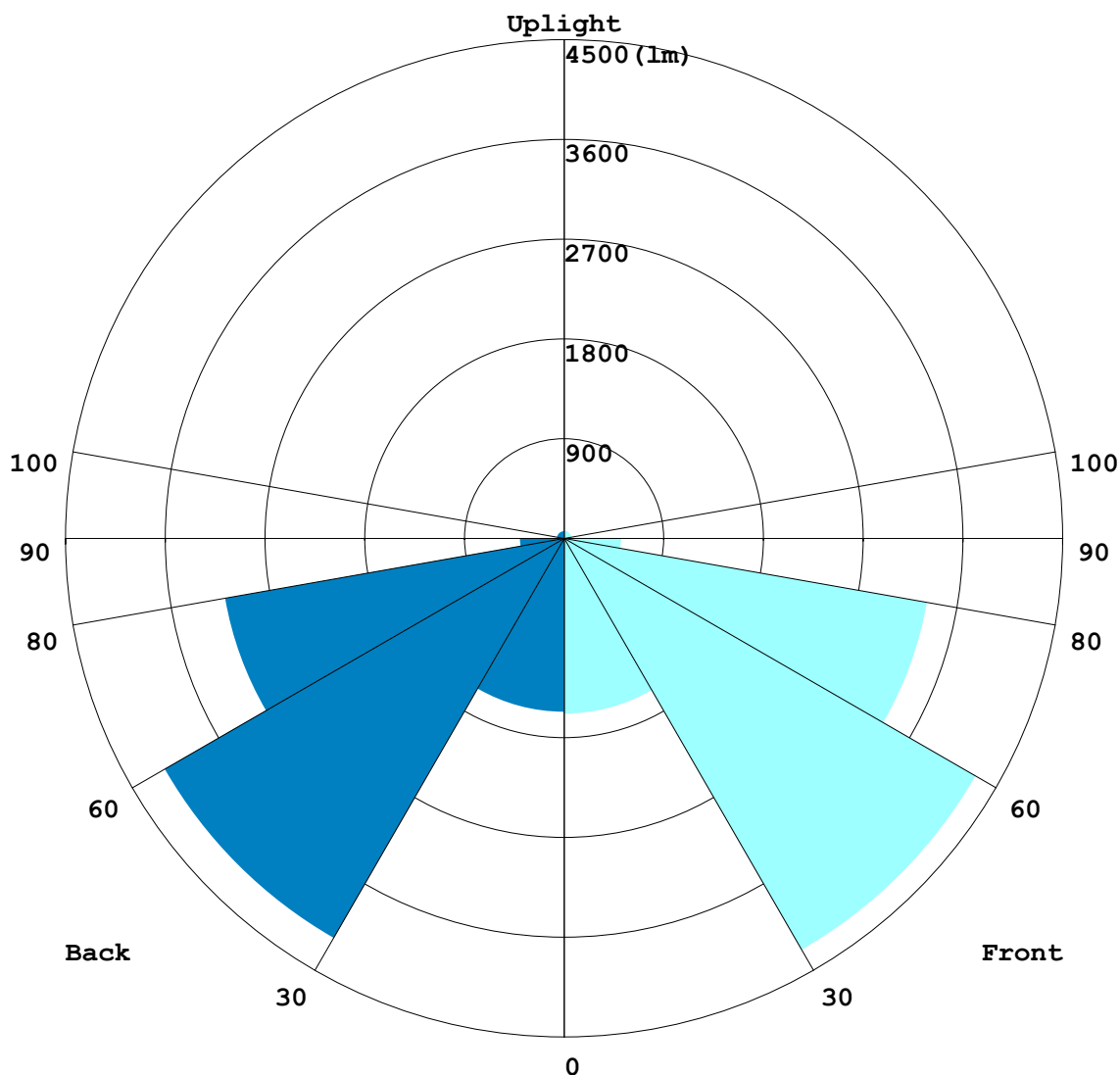
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LCS REPORT

Test:U:119.92V I:1.0691A P:127.95W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.72% KDisp:0.9998 Lamp Flux:19094.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

## LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:23 June 2025

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:6.895m [K=0.9935]  
 Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## BUG REPORT

Test:U:119.92V I:1.0691A P:127.95W PF:0.9980 Freq:60.00Hz UTHDi:1.29% ITHDi:3.72% KDisp:0.9998 Lamp Flux:19094.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1582.5	8.3
FM - Front-Medium(30-60)	4287.5	22.5
FH - Front-High(60-80)	3324.7	17.4
FVH - Front-Very High(80-90)	514.55	2.7
Total Forward Light	9788.3	51.3

BL - Back-Low(0-30)	1564.8	8.2
BM - Back-Medium(30-60)	4162.1	21.8
BH - Back-High(60-80)	3108.2	16.3
BVH - Back-Very High(80-90)	399.46	2.1
Total Back Light	9306.3	48.7

UL - Uplight-Low(90-100)	17.558	0.1
UH - Uplight-High(100-180)	133.29	0.7
Total Up Light	150.85	0.8

BUG(Back,Up,Glare) Rating	B4-U3-G4
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	9234.5	71.83	9306.3
Street Side	9709.3	79.02	9788.3

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:23 June 2025

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.471  
Humidity:65.0%  
Test Distance:6.895m [K=0.9935]  
Remarks:

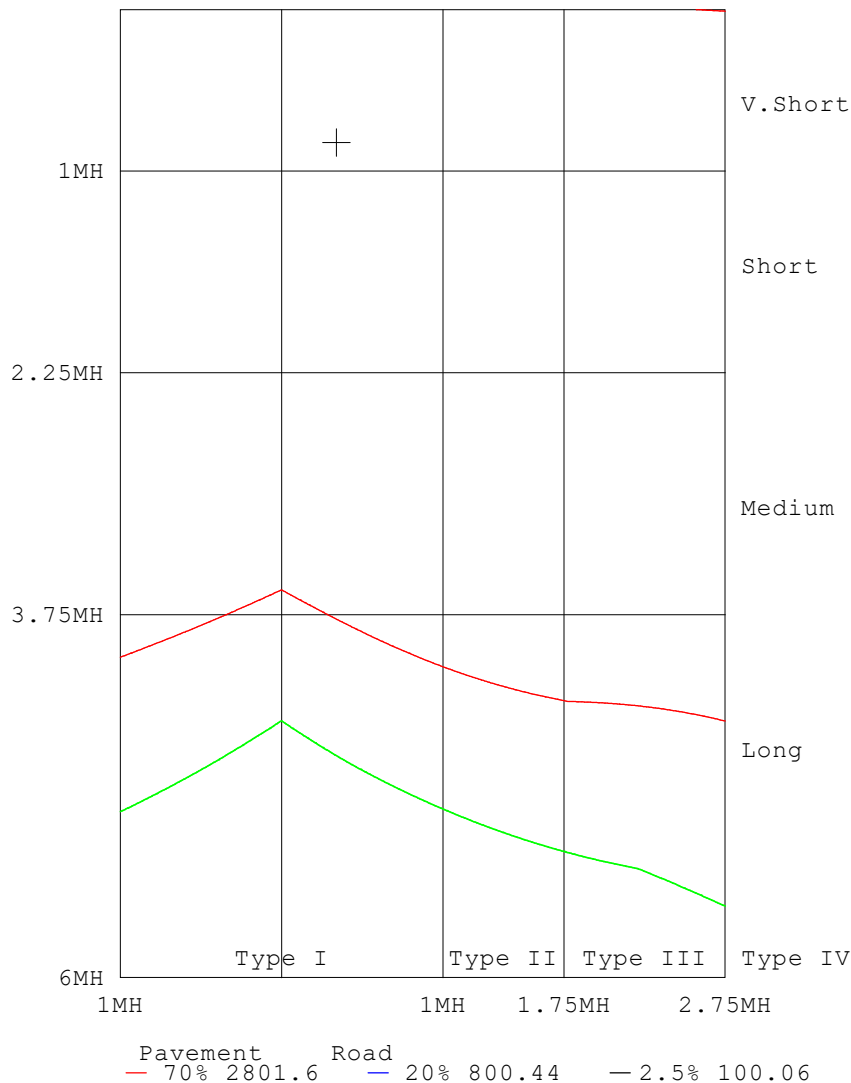


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.92V I:1.0691A P:127.95W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.72% KDisp:0.9998 Lamp Flux:19094.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:23 June 2025

γ Range: 0 - 180DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.471  
 Humidity:65.0%  
 Test Distance:6.895m [K=0.9935]  
 Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.92V I:1.0691A P:127.95W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.72% KDisp:0.9998 Lamp Flux:19094.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	3784	3784	3784	3784	3784	3784	3784	3784	3784	3784	3784	3784	3784	3784	3784	3784			
5	3793	3791	3791	3784	3782	3778	3775	3774	3773	3772	3774	3774	3777	3780	3783	3788			
10	3802	3801	3792	3779	3768	3757	3751	3752	3752	3753	3753	3751	3753	3758	3769	3786			
15	3821	3815	3789	3768	3751	3736	3729	3735	3742	3742	3736	3727	3726	3730	3752	3791			
20	3865	3848	3791	3742	3717	3694	3690	3715	3738	3730	3703	3675	3665	3675	3729	3817			
25	3896	3875	3795	3725	3692	3665	3662	3709	3744	3728	3673	3630	3622	3639	3718	3841			
30	3927	3914	3806	3708	3670	3637	3633	3710	3754	3727	3627	3574	3580	3608	3710	3873			
35	3941	3935	3815	3716	3672	3636	3625	3711	3750	3723	3602	3553	3562	3606	3715	3892			
40	3957	3994	3839	3733	3680	3639	3631	3708	3736	3711	3575	3512	3552	3601	3726	3947			
45	3870	3982	3878	3737	3692	3631	3638	3722	3712	3709	3563	3483	3567	3598	3750	3931			
50	3726	3876	3816	3735	3743	3614	3622	3652	3562	3596	3497	3460	3635	3609	3680	3819			
55	3639	3825	3745	3741	3790	3624	3567	3573	3446	3508	3416	3475	3685	3638	3619	3762			
60	3585	3772	3658	3772	3814	3662	3497	3428	3245	3331	3299	3516	3701	3689	3536	3684			
65	3614	3785	3607	3796	3772	3686	3451	3340	3134	3227	3183	3554	3606	3736	3489	3662			
70	3613	3913	3582	3823	2976	3593	3366	3209	3124	3110	3041	3586	2436	3414	3473	3733			
75	2926	3738	3567	3475	1781	2961	3300	3187	3099	3101	2932	3035	1384	2404	3583	3589			
80	1181	2055	3297	1822	638	1281	3166	2927	1900	2354	2610	1530	520	945	2864	2105			
85	298	718	1898	797	244	552	2540	1806	772	1054	1785	799	213	404	849	767			
90	11.5	29.2	14.6	19.2	10.5	53.0	154	318	13.5	107	10.6	6.70	5.44	9.10	9.78	14.8			
95	13.4	12.0	12.8	15.5	11.0	8.75	12.2	13.6	9.98	13.3	11.8	7.59	8.05	11.8	11.6	9.86			
100	17.2	15.5	16.0	16.9	14.8	12.9	15.5	16.9	14.5	16.6	14.9	11.4	12.5	15.2	14.5	12.5			
105	19.4	17.6	18.0	18.9	17.7	15.4	17.3	19.0	17.2	18.7	16.9	13.7	15.1	17.2	16.4	14.2			
110	22.8	21.0	21.6	22.1	21.3	18.9	20.5	22.2	20.6	22.1	20.4	17.1	18.5	20.1	19.7	17.3			
115	25.2	23.4	23.8	24.2	23.3	21.0	22.9	24.6	23.0	24.8	22.8	19.4	20.6	22.3	21.7	19.5			
120	28.0	26.6	26.7	27.2	26.3	24.1	26.1	27.8	26.7	28.1	25.8	22.7	23.7	25.1	23.9	22.4			
125	29.2	28.1	27.8	28.3	28.1	26.0	27.8	29.2	28.5	29.3	27.4	24.7	25.6	26.6	25.1	23.8			
130	29.9	29.1	28.7	28.9	29.7	28.1	29.3	29.7	30.4	30.7	29.3	27.2	27.5	27.8	26.4	25.4			
135	30.1	29.4	29.2	29.2	30.1	29.1	29.7	29.7	31.1	30.9	30.0	28.2	28.4	28.2	27.0	26.2			
140	30.4	29.9	29.8	29.7	30.1	29.7	29.8	29.7	31.7	31.0	30.4	29.3	29.4	28.4	27.6	26.9			
145	30.7	30.2	30.1	30.1	30.2	29.9	29.7	29.8	31.6	31.0	30.3	29.5	29.6	28.5	27.8	27.2			
150	31.0	30.6	30.6	30.7	30.6	29.9	29.6	29.8	31.7	31.0	30.3	29.6	29.6	28.7	28.2	27.7			
155	31.1	30.8	30.9	31.0	30.9	30.0	29.7	29.8	31.7	31.1	30.4	29.6	29.6	28.9	28.6	28.1			
160	31.3	31.3	31.5	31.5	31.2	30.5	29.9	29.9	32.1	31.5	30.8	30.1	30.0	29.6	29.3	28.9			
165	31.7	31.8	31.9	32.1	31.5	30.8	30.2	30.2	32.4	31.8	31.3	30.6	30.5	30.2	29.9	29.5			
170	32.5	32.7	32.8	32.5	31.9	31.3	30.9	30.8	33.1	32.5	32.1	31.5	31.4	31.1	30.9	30.6			
175	33.1	33.3	33.1	32.5	32.0	31.6	31.4	31.3	33.6	33.0	32.7	32.1	32.0	31.7	31.6	31.2			
180	33.5	33.4	33.1	32.5	32.2	31.9	31.7	31.6	33.5	33.4	33.1	32.5	32.2	31.9	31.7	31.6			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:23 June 2025

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.471

Humidity:65.0%

Test Distance:6.895m [K=0.9935]

Remarks: