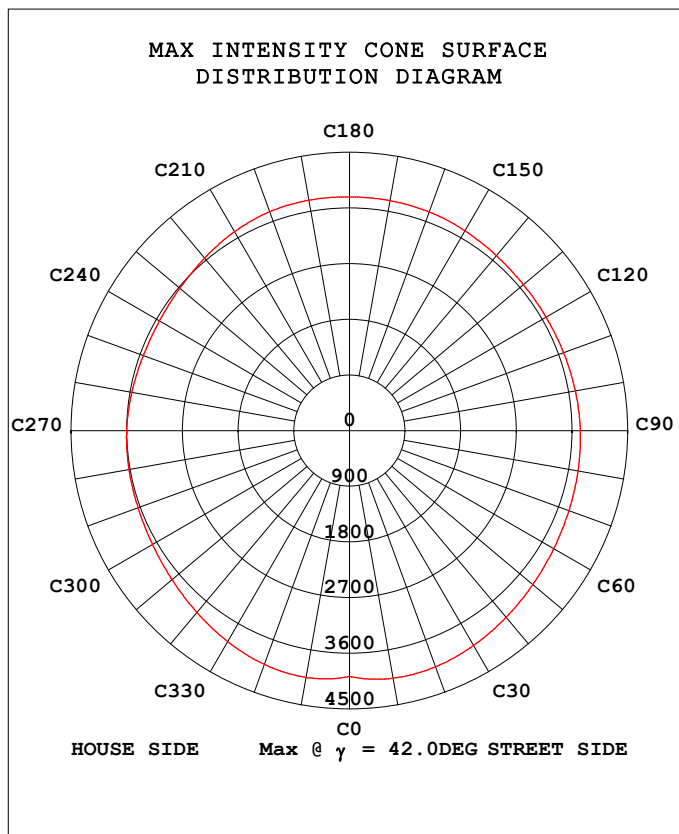
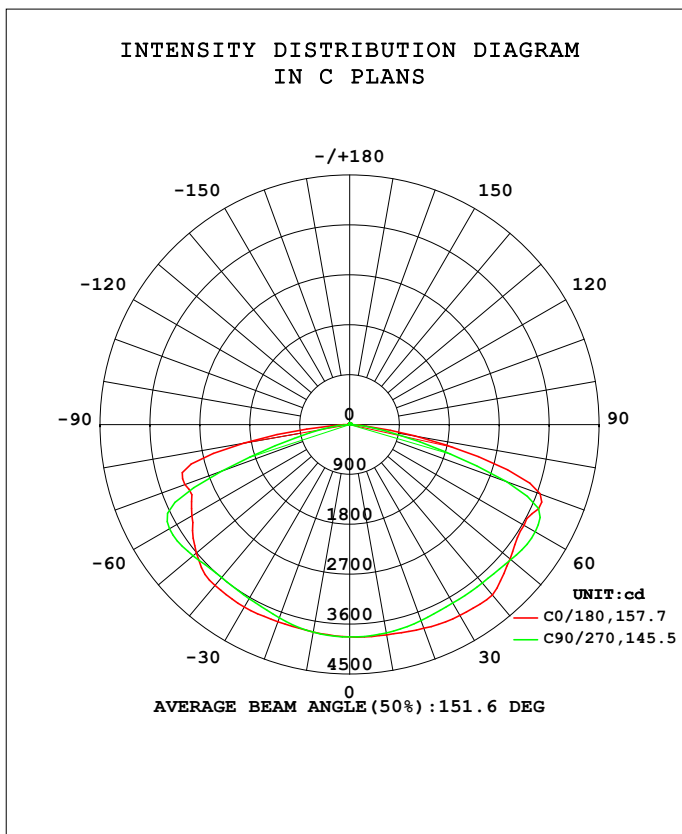


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.95V I:1.0681A P:127.86W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.80% KDisp:0.9998 Lamp Flux:19340.9x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.26 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-150W-BR-PS-XX	Imax (cd)	4054	η street_up (%)	0.4
NOMINAL POWER (W)	150	LOR (%)	100.0	η street_down (%)	50.9
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	19341	η house_up (%)	0.4
NOMINAL FLUX (lm)	19340.9	MAXIMUM @ (C, γ)	23,42.0	η house_down (%)	48.4
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.2	SLI	23.862



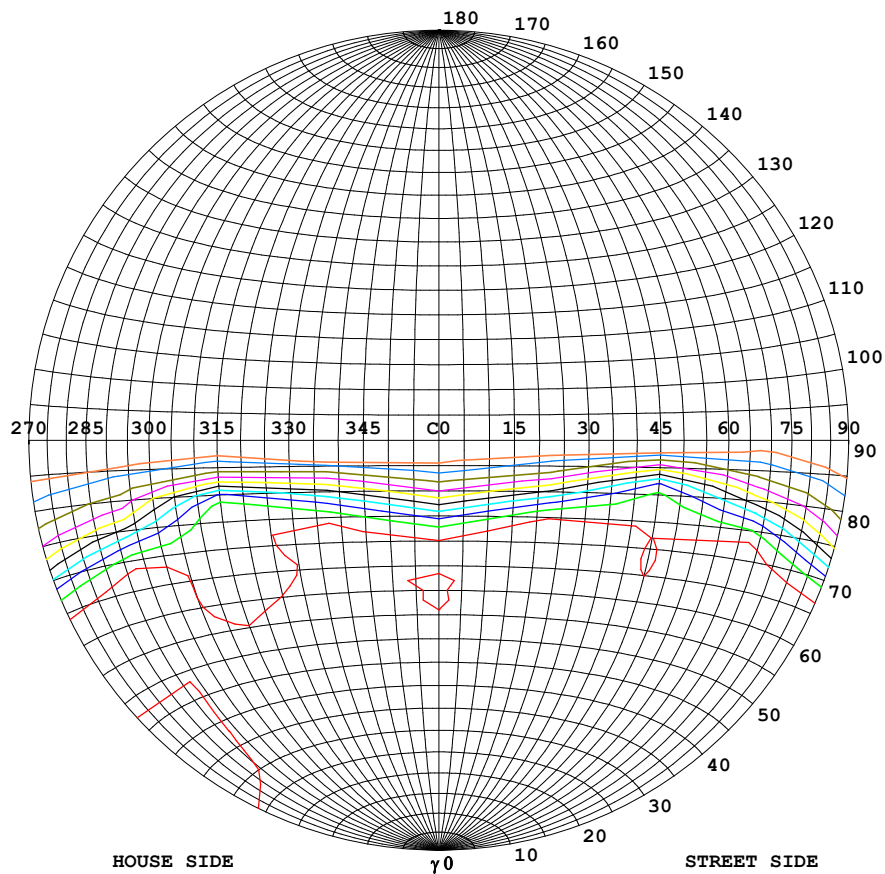
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 June 2025

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=1.0007]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.95V I:1.0681A P:127.86W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.80% KDisp:0.9998 Lamp Flux:19340.9x1 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.At80:172.9cd/klm
 Max.At90:16.56cd/klm
 Max.80-90:172.9cd/klm

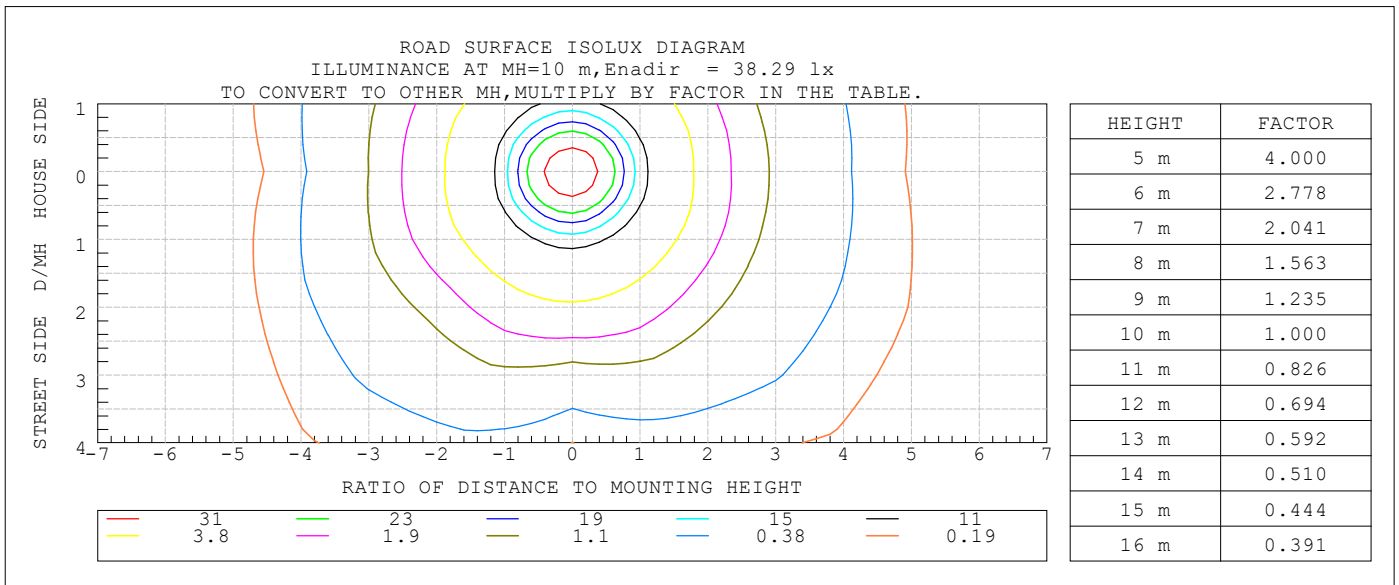
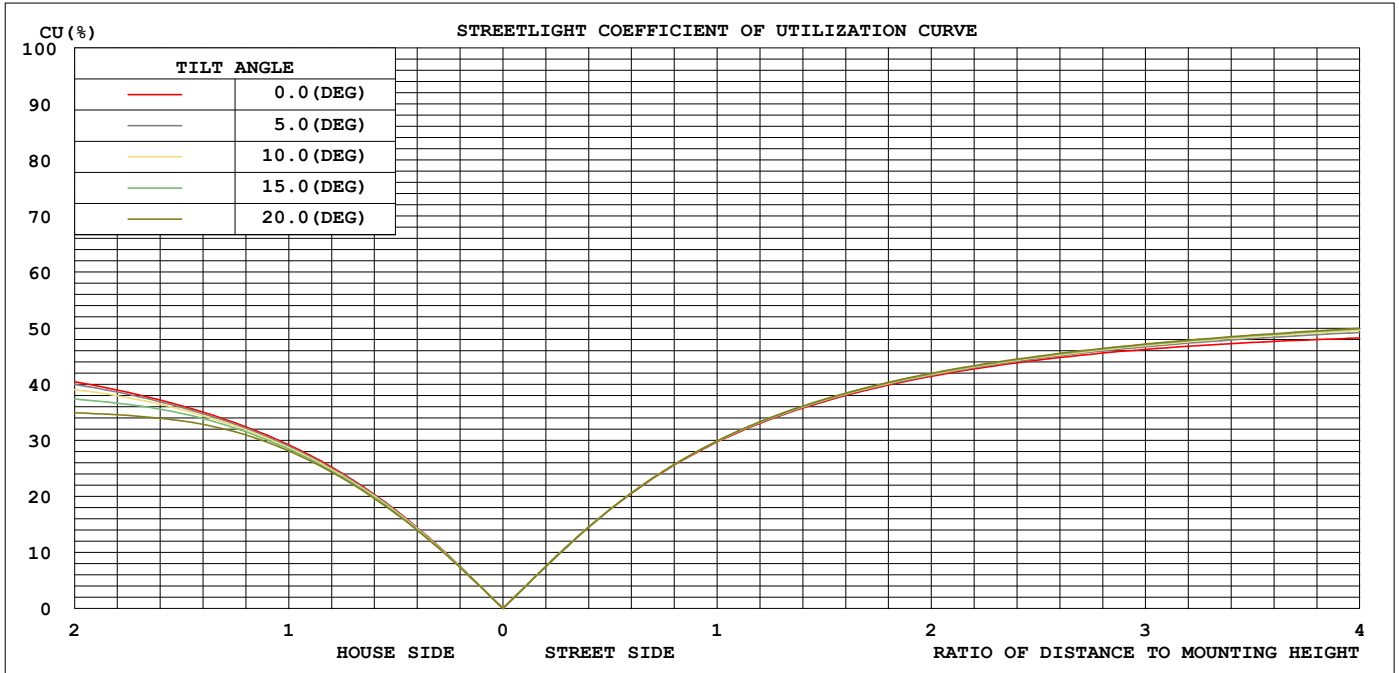
ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	4054
90%	3649
80%	3243
70%	2838
60%	2433
50%	2027
40%	1622
30%	1216
20%	811
10%	405
5%	203

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=1.0007]
 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

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=1.0007]

Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:119.95V I:1.0681A P:127.86W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.80% KDisp:0.9998 Lamp Flux:19340.9x1 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	3850	3836	3814	3800	3799	3798	3800	3818	0- 10	364.8	364.8	1.89,1.89
20	3910	3838	3763	3736	3782	3746	3711	3777	10- 20	1076	1441	7.45,7.45
30	3976	3851	3716	3679	3800	3669	3624	3759	20- 30	1745	3186	16.5,16.5
40	4007	3885	3728	3678	3783	3618	3598	3776	30- 40	2365	5551	28.7,28.7
50	3774	3863	3793	3672	3608	3541	3683	3732	40- 50	2905	8457	43.7,43.7
60	3634	3705	3865	3545	3286	3343	3751	3585	50- 60	3289	11746	60.7,60.7
70	3659	3631	3011	3411	3167	3085	2463	3520	60- 70	3531	15277	79,79
80	1192	3344	645.0	3208	1939	2652	525.7	2891	70- 80	2987	18264	94.4,94.4
90	11.63	14.72	10.56	159.5	13.71	10.67	5.513	9.918	80- 90	923.7	19188	99.2,99.2
100	17.44	16.26	14.99	15.68	14.74	15.10	12.64	14.72	90-100	17.81	19206	99.3,99.3
110	23.10	21.88	21.56	20.81	20.85	20.65	18.77	19.94	100-110	18.84	19225	99.4,99.4
120	28.40	26.99	26.66	26.45	27.00	26.15	24.04	24.18	110-120	23.24	19248	99.5,99.5
130	30.31	29.10	30.04	29.69	30.80	29.65	27.87	26.79	120-130	24.87	19273	99.6,99.6
140	30.80	30.22	30.51	30.23	32.08	30.73	29.82	27.96	130-140	22.90	19296	99.8,99.8
150	31.35	30.97	31.03	30.03	32.07	30.68	29.95	28.59	140-150	18.96	19315	99.9,99.9
160	31.69	31.83	31.65	30.31	32.45	31.22	30.36	29.69	150-160	14.16	19329	99.9,99.9
170	32.86	33.17	32.31	31.26	33.52	32.55	31.79	31.35	160-170	8.930	19338	100,100
180	33.93	33.47	32.63	32.14	33.95	33.45	32.65	32.14	170-180	3.108	19341	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

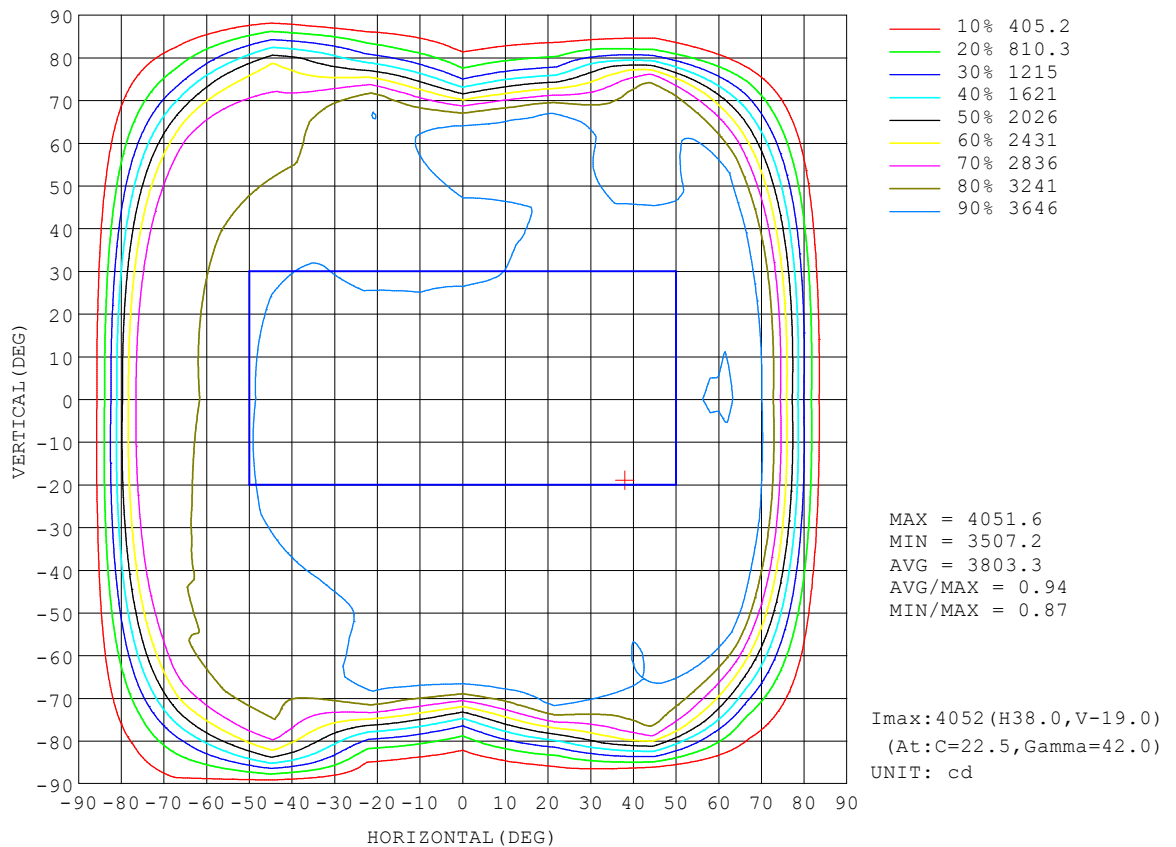
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

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=1.0007]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

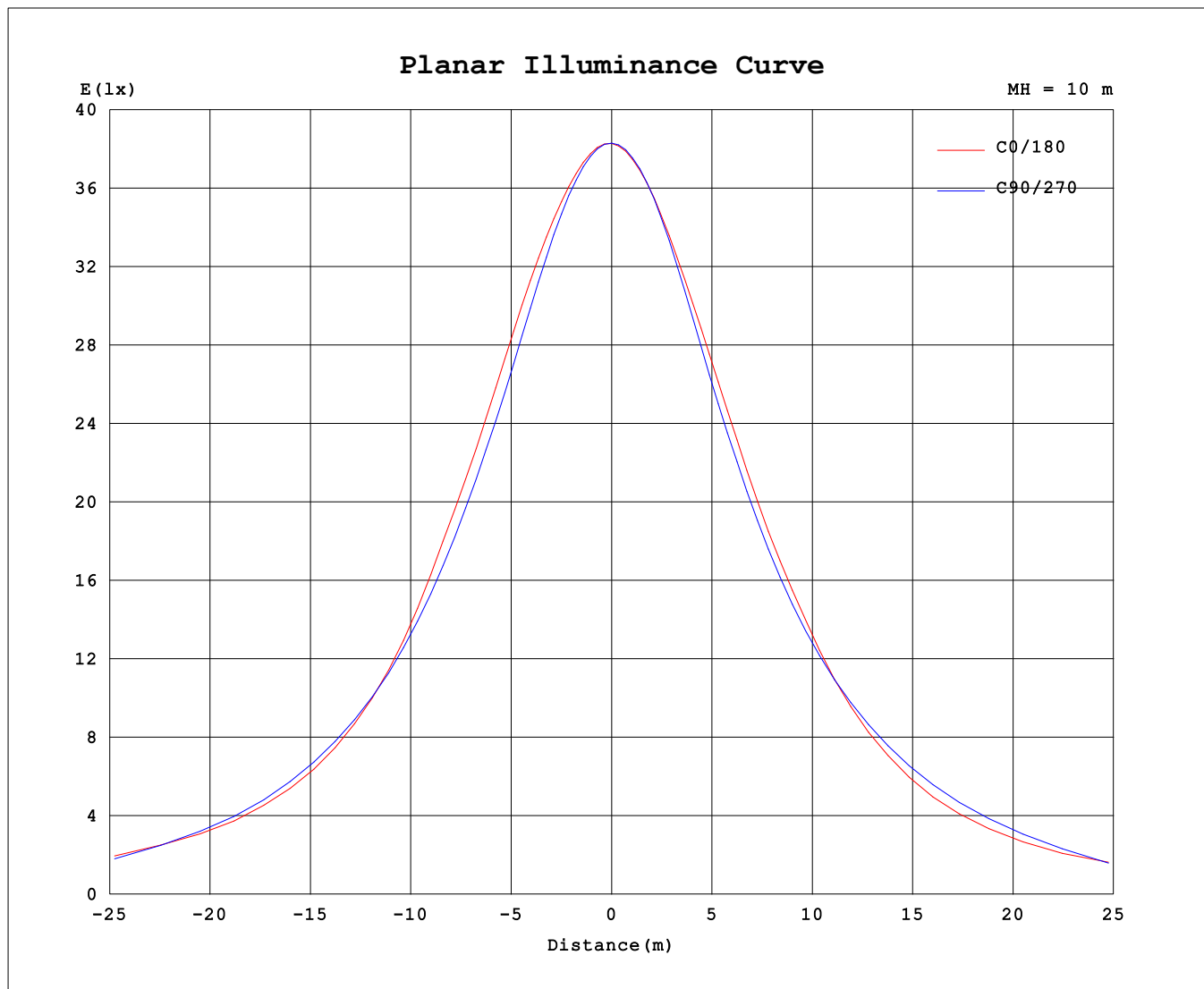
Test:U:119.95V I:1.0681A P:127.86W PF:0.9980 Freq:60.00Hz UTHDi:1.29% ITHDi:3.80% KDisp:0.9998 Lamp Flux:19340.9x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°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=1.0007]
Remarks:

Planar Illuminance Curve

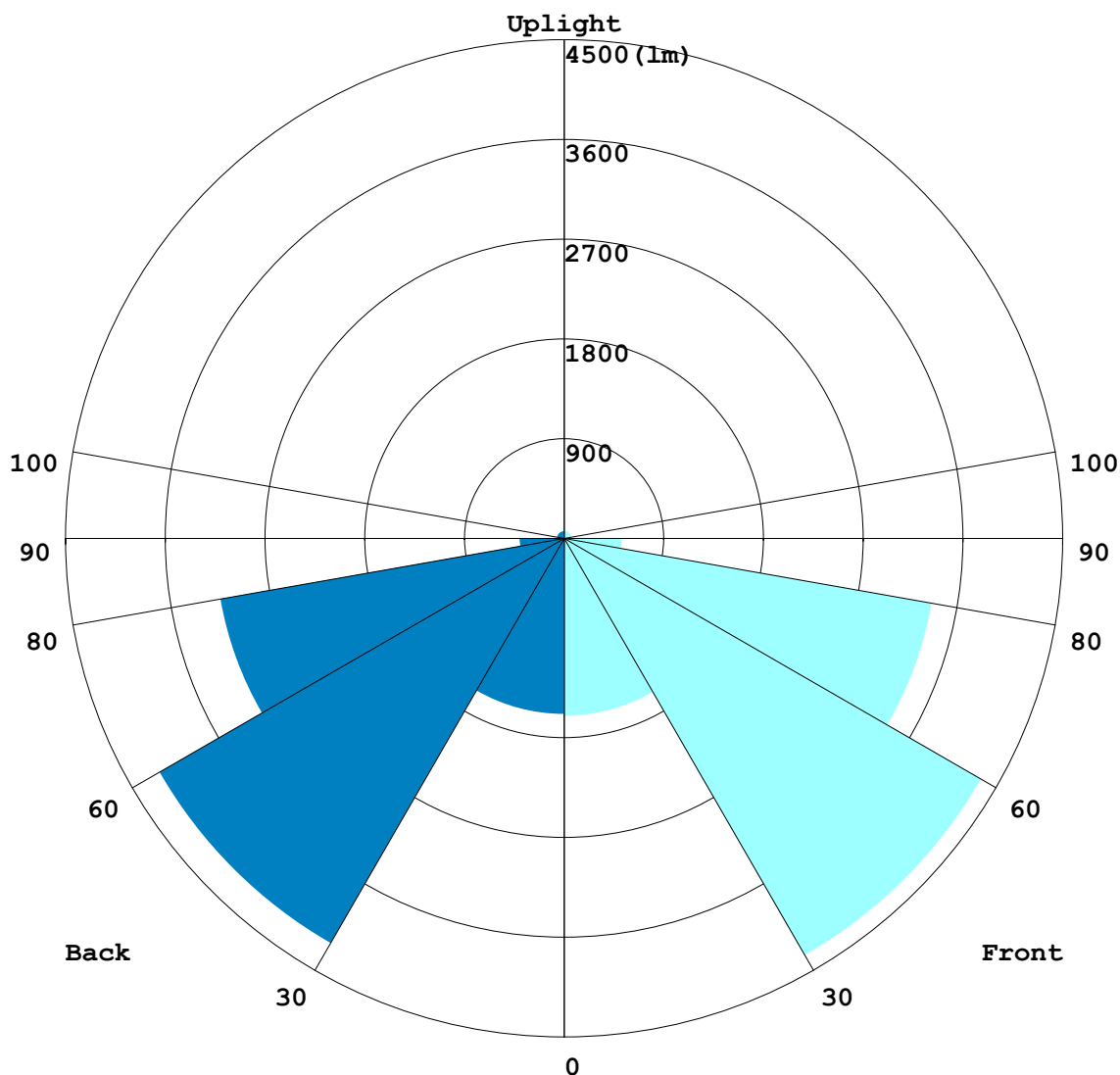


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 23 June 2025

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=1.0007]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT
LCS REPORT

Test:U:119.95V I:1.0681A P:127.86W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.80% KDisp:0.9998 Lamp Flux:19340.9x1 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=1.0007]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:119.95V I:1.0681A P:127.86W PF:0.9980 Freq:60.00Hz UTHDi:1.29% ITHDi:3.80% KDisp:0.9998 Lamp Flux:19340.9x1 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)	1602.2	8.3
FM - Front-Medium(30-60)	4343	22.5
FH - Front-High(60-80)	3369	17.4
FVH - Front-Very High(80-90)	520.99	2.7
Total Forward Light	9915.2	51.3

BL - Back-Low(0-30)	1584.2	8.2
BM - Back-Medium(30-60)	4216.3	21.8
BH - Back-High(60-80)	3149.6	16.3
BVH - Back-Very High(80-90)	402.75	2.1
Total Back Light	9425.7	48.7

UL - Uplight-Low(90-100)	17.814	0.1
UH - Uplight-High(100-180)	135.02	0.7
Total Up Light	152.83	0.8

BUG(Back,Up,Glare) Rating	B4-U3-G4
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	9352.9	72.767	9425.7
Street Side	9835.1	80.067	9915.2

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

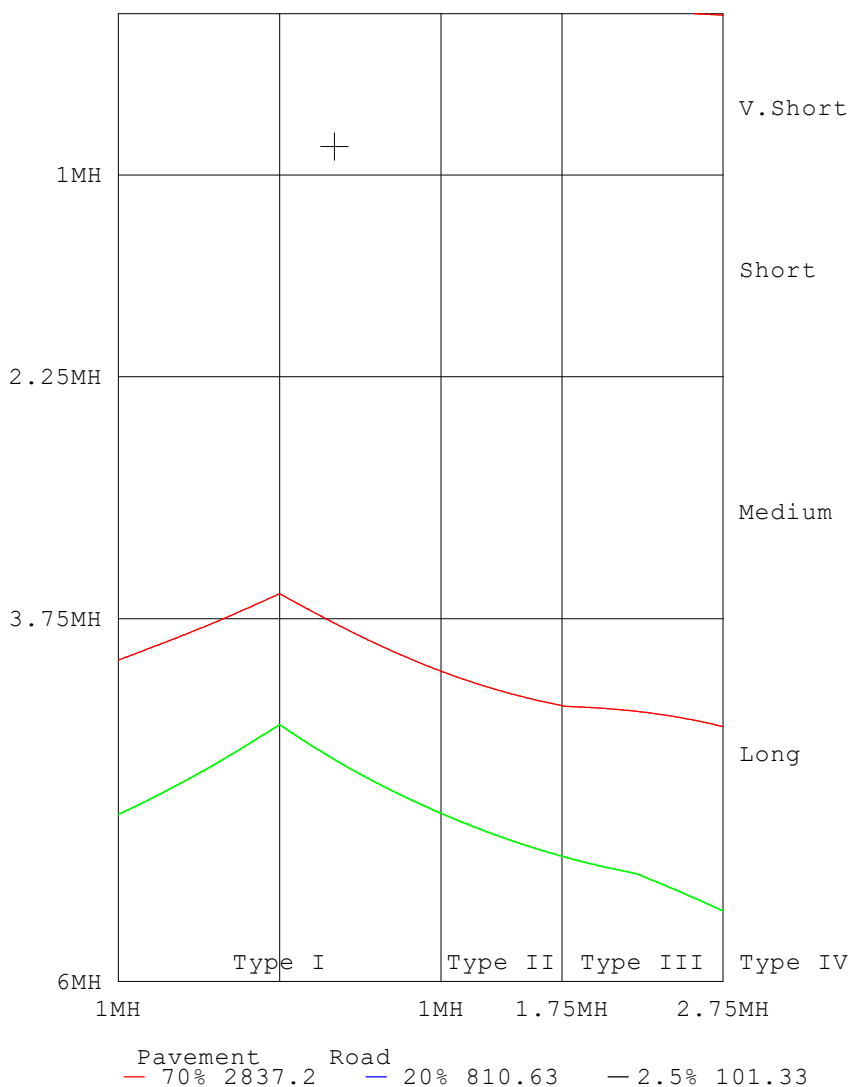
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0007]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.95V I:1.0681A P:127.86W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.80% KDisp:0.9998 Lamp Flux:19340.9x1 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=1.0007]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.95V I:1.0681A P:127.86W PF:0.9980 Freq:60.00Hz		
UTHDi:1.29% ITHDi:3.80% KDisp:0.9998 Lamp Flux:19340.9x1 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	3830	3830	3830	3830	3830	3830	3830	3830	3830	3830	3830	3830	3830	3830	3830	3830			
5	3837	3838	3836	3834	3829	3824	3824	3820	3818	3818	3819	3821	3825	3826	3833	3835			
10	3850	3849	3836	3827	3814	3804	3800	3798	3799	3799	3798	3800	3800	3804	3818	3835			
15	3868	3862	3836	3816	3799	3782	3777	3781	3787	3788	3781	3776	3772	3776	3800	3840			
20	3910	3895	3838	3791	3763	3740	3736	3762	3782	3777	3746	3722	3711	3719	3777	3864			
25	3943	3923	3841	3773	3737	3709	3710	3755	3789	3774	3716	3677	3667	3683	3767	3887			
30	3976	3963	3851	3757	3716	3681	3679	3757	3800	3774	3669	3619	3624	3653	3759	3921			
35	3989	3984	3861	3764	3719	3681	3672	3758	3796	3773	3645	3598	3608	3651	3764	3941			
40	4007	4043	3885	3782	3728	3684	3678	3755	3783	3759	3618	3560	3598	3647	3776	3998			
45	3919	4035	3927	3787	3741	3676	3684	3770	3761	3756	3606	3529	3613	3644	3802	3981			
50	3774	3927	3863	3785	3793	3660	3672	3700	3608	3642	3541	3506	3683	3657	3732	3869			
55	3684	3876	3792	3792	3841	3671	3616	3618	3490	3554	3460	3524	3734	3686	3668	3810			
60	3634	3822	3705	3825	3865	3710	3545	3472	3286	3375	3343	3568	3751	3738	3585	3733			
65	3664	3837	3655	3848	3822	3734	3497	3385	3174	3270	3226	3605	3653	3784	3537	3712			
70	3659	3967	3631	3876	3011	3642	3411	3253	3167	3153	3085	3632	2463	3471	3520	3785			
75	2962	3792	3617	3511	1799	3004	3346	3232	3140	3144	2975	3049	1399	2442	3635	3636			
80	1192	2086	3344	1829	645	1304	3208	2960	1939	2383	2652	1545	526	970	2891	2118			
85	302	736	1922	797	246	560	2578	1828	781	1066	1810	795	216	415	864	774			
90	11.6	29.8	14.7	19.5	10.6	54.9	159	320	13.7	108	10.7	6.74	5.51	9.23	9.92	15.0			
95	13.6	12.2	13.0	15.7	11.1	8.85	12.4	13.7	10.1	13.4	11.9	7.66	8.16	11.9	11.7	9.97			
100	17.4	15.8	16.3	17.1	15.0	13.1	15.7	17.2	14.7	16.9	15.1	11.5	12.6	15.4	14.7	12.6			
105	19.7	17.8	18.2	19.1	17.9	15.6	17.5	19.2	17.4	19.0	17.1	13.9	15.3	17.4	16.6	14.4			
110	23.1	21.2	21.9	22.4	21.6	19.1	20.8	22.5	20.8	22.4	20.6	17.4	18.8	20.3	19.9	17.5			
115	25.5	23.7	24.1	24.6	23.6	21.3	23.2	24.9	23.3	25.2	23.1	19.7	20.9	22.6	22.0	19.7			
120	28.4	26.9	27.0	27.6	26.7	24.4	26.4	28.2	27.0	28.5	26.2	23.0	24.0	25.4	24.2	22.7			
125	29.6	28.4	28.2	28.7	28.4	26.3	28.2	29.6	28.9	29.7	27.8	25.0	25.9	27.0	25.4	24.2			
130	30.3	29.5	29.1	29.3	30.0	28.5	29.7	30.1	30.8	31.1	29.6	27.5	27.9	28.2	26.8	25.7			
135	30.5	29.7	29.6	29.6	30.4	29.5	30.1	30.1	31.6	31.4	30.3	28.6	28.8	28.5	27.4	26.5			
140	30.8	30.3	30.2	30.1	30.5	30.1	30.2	30.1	32.1	31.4	30.7	29.7	29.8	28.8	28.0	27.3			
145	31.1	30.6	30.5	30.5	30.6	30.2	30.1	30.2	32.0	31.4	30.7	29.9	30.0	28.9	28.2	27.6			
150	31.4	31.0	31.0	31.1	31.0	30.3	30.0	30.2	32.1	31.4	30.7	30.0	29.9	29.1	28.6	28.1			
155	31.4	31.2	31.2	31.4	31.3	30.4	30.0	30.2	32.1	31.5	30.8	30.0	30.0	29.3	29.0	28.5			
160	31.7	31.7	31.8	31.9	31.6	30.8	30.3	30.3	32.4	31.9	31.2	30.5	30.4	30.0	29.7	29.3			
165	32.1	32.2	32.3	32.5	31.9	31.2	30.6	30.6	32.8	32.2	31.7	31.0	30.8	30.6	30.3	29.9			
170	32.9	33.1	33.2	33.0	32.3	31.7	31.3	31.2	33.5	32.9	32.5	32.0	31.8	31.5	31.3	30.9			
175	33.5	33.7	33.5	33.0	32.4	32.0	31.8	31.7	34.0	33.4	33.1	32.5	32.4	32.1	32.0	31.6			
180	33.9	33.8	33.5	32.9	32.6	32.3	32.1	32.0	33.9	33.8	33.5	32.9	32.6	32.3	32.1	32.0			

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=1.0007]

Remarks: