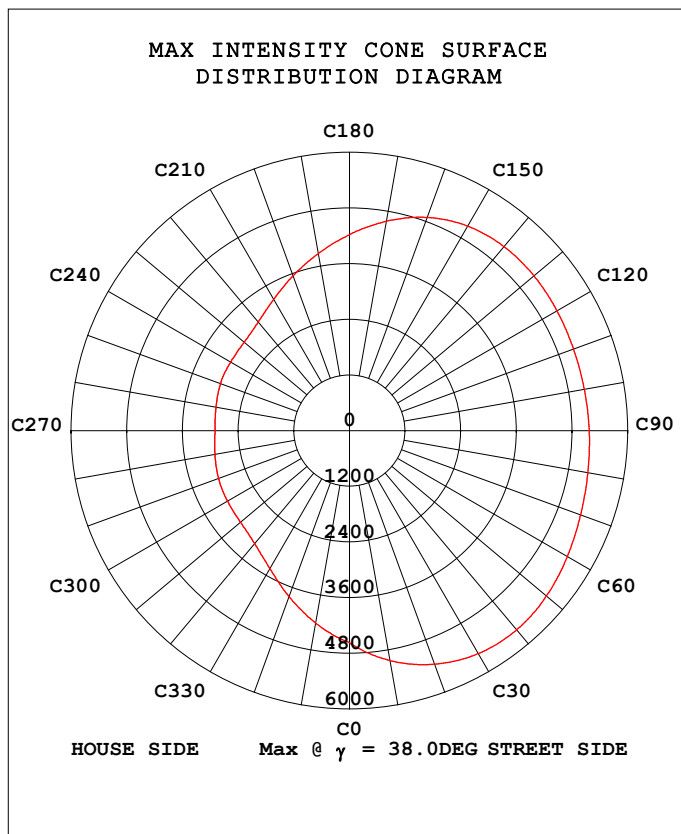
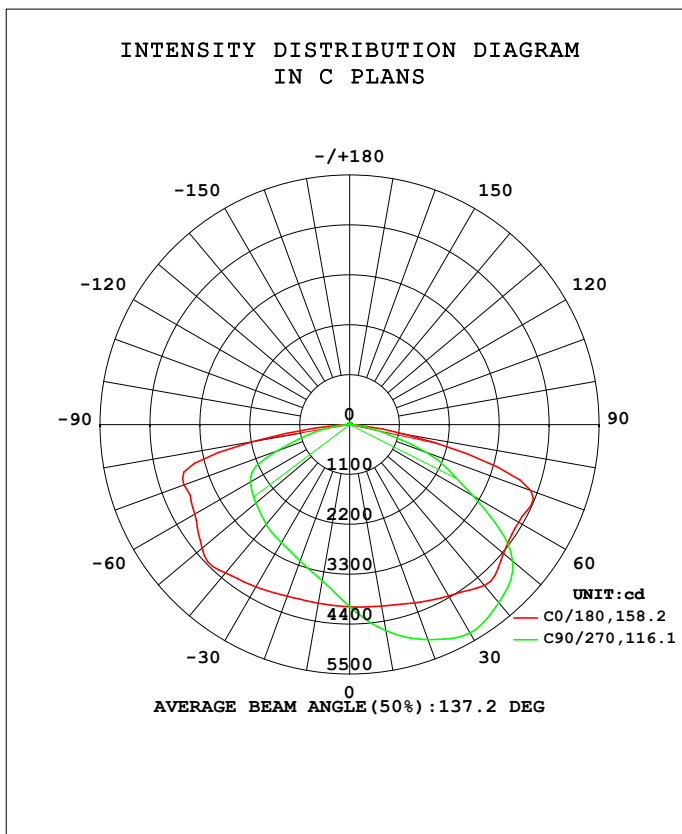


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.87V I:1.0409A P:124.53W PF:0.9980 Freq:60.00Hz		
UTHDi:1.25% ITHDi:3.70% KDisp:0.9998 Lamp Flux:19434.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 156.07 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-150W-BR-PS-XX	Imax (cd)	5588	η street_up (%)	0.4
NOMINAL POWER (W)	150	LOR (%)	100.0	η street_down (%)	58.8
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	19435	η house_up (%)	0.4
NOMINAL FLUX (lm)	19434.6	MAXIMUM @ (C, γ)	45,38.0	η house_down (%)	40.4
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.2	SLI	23.900



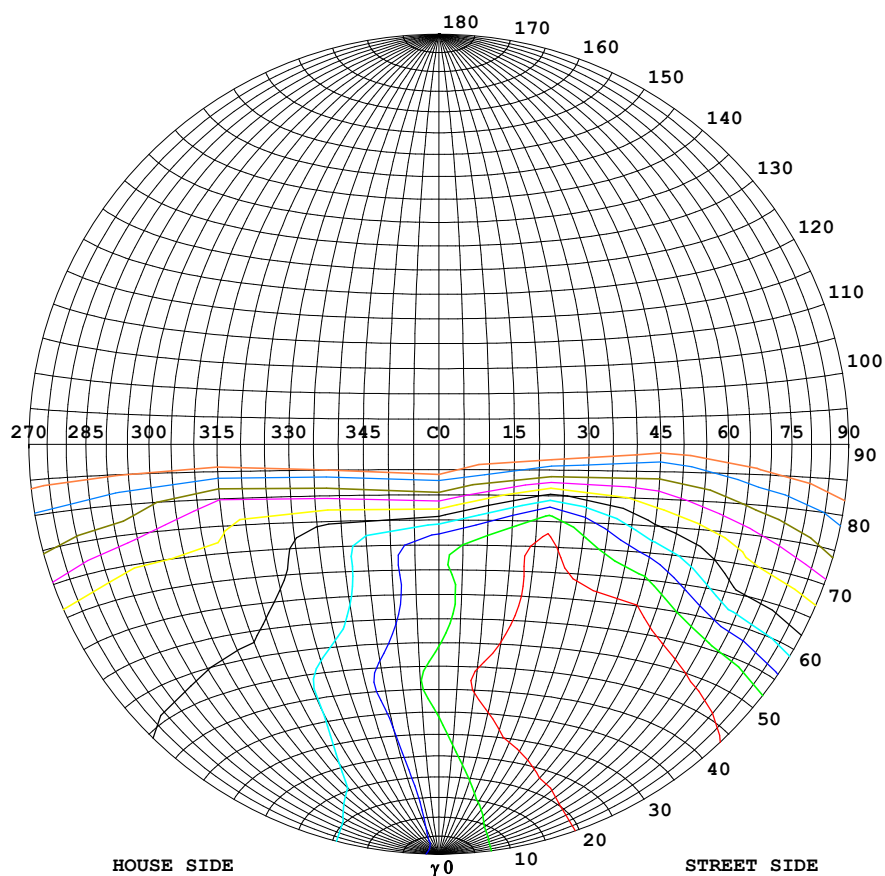
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 June 2025

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=0.9790]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.87V I:1.0409A P:124.53W PF:0.9980 Freq:60.00Hz		
UTHDi:1.25% ITHDi:3.70% KDisp:0.9998 Lamp Flux:19434.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type IV - Very Short
 CIE:Average - Short
 IES:Semi cut-off
 CIE:Non-cut-off
 Max.At80:190.0cd/klm
 Max.At90:4.768cd/klm
 Max.80-90:190.0cd/klm

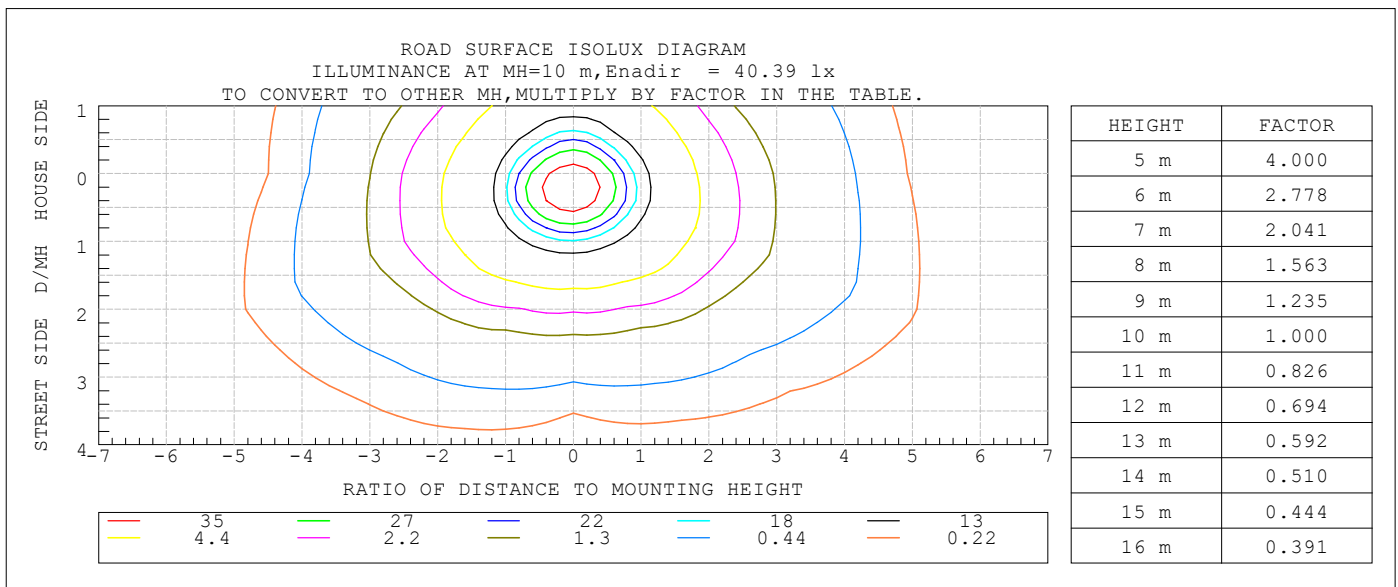
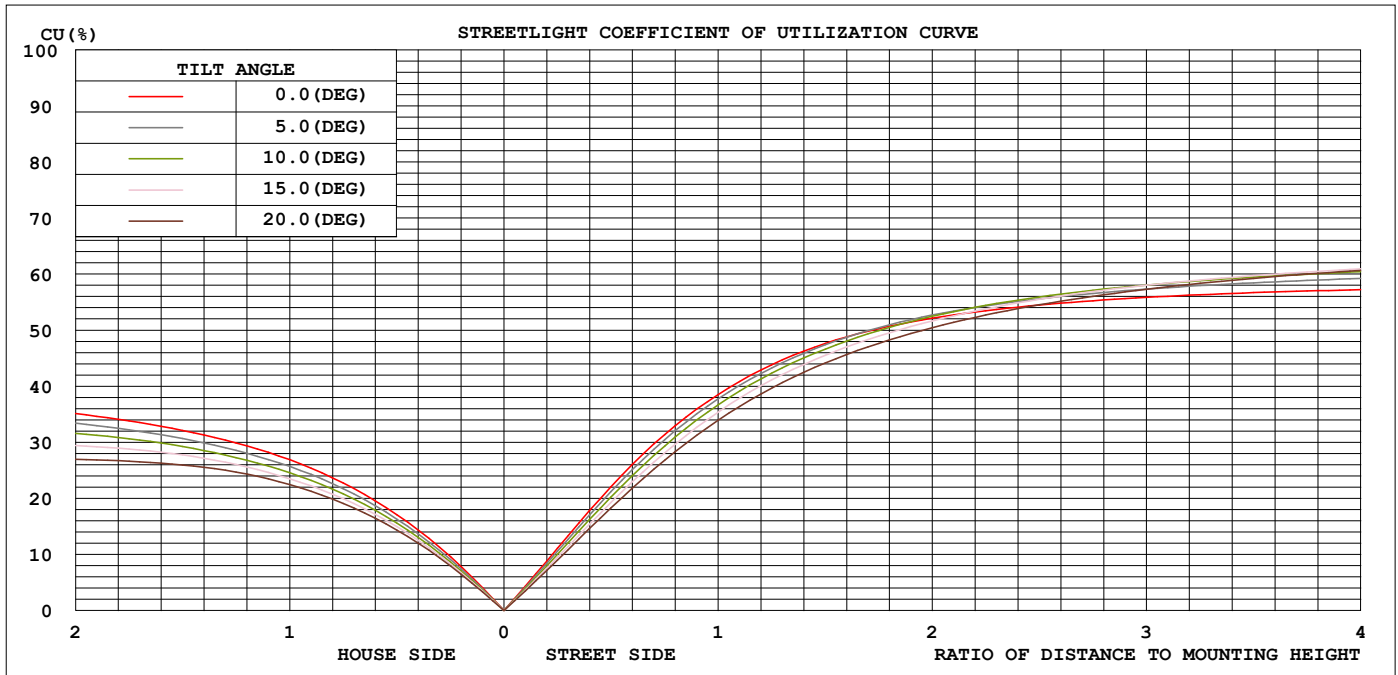
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5588
90%	5030
80%	4471
70%	3912
60%	3353
50%	2794
40%	2235
30%	1677
20%	1118
10%	559
5%	279

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=0.9790]
 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=0.9790]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:119.87V I:1.0409A P:124.53W PF:0.9980 Freq:60.00Hz		
UTHDi:1.25% ITHDi:3.70% KDisp:0.9998 Lamp Flux:19434.6x1 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	4060	4466	4610	4432	3996	3609	3497	3642	0- 10	384.5	384.5	1.98,1.98
20	4180	4875	5044	4768	4027	3331	3198	3387	10- 20	1155	1539	7.92,7.92
30	4359	5308	5307	5025	4134	3131	3006	3220	20- 30	1921	3460	17.8,17.8
40	4629	5581	5118	5200	4263	2965	2865	3084	30- 40	2654	6114	31.5,31.5
50	4423	5366	4691	5082	4246	2778	2698	2907	40- 50	3225	9338	48.1,48.1
60	4307	5012	3138	4781	3948	2461	2524	2591	50- 60	3433	12772	65.7,65.7
70	4251	3759	1807	3448	3894	2101	1723	2310	60- 70	3275	16047	82.6,82.6
80	1225	1945	425.5	1912	2197	1618	585.0	1664	70- 80	2537	18584	95.6,95.6
90	13.67	12.69	7.537	92.67	14.09	6.851	3.754	9.720	80- 90	697.6	19282	99.2,99.2
100	21.66	13.34	10.30	10.75	17.69	11.42	8.593	17.16	90-100	13.17	19295	99.3,99.3
110	29.16	18.80	15.13	14.75	25.71	18.24	15.57	24.19	100-110	17.33	19312	99.4,99.4
120	36.69	24.14	19.62	19.24	34.25	25.48	23.28	30.54	110-120	22.54	19335	99.5,99.5
130	39.61	27.36	22.78	22.29	39.86	32.07	30.07	34.62	120-130	25.27	19360	99.6,99.6
140	39.97	29.88	24.42	23.86	41.86	36.80	35.68	35.47	130-140	24.33	19384	99.7,99.7
150	40.37	32.34	26.59	24.96	41.96	39.47	38.32	34.32	140-150	20.87	19405	99.8,99.8
160	40.62	35.10	29.28	26.48	42.24	41.08	38.79	33.35	150-160	15.91	19421	99.9,99.9
170	41.79	38.44	32.68	28.75	42.99	41.90	38.47	32.95	160-170	10.09	19431	100,100
180	43.05	40.97	36.22	31.48	43.07	41.00	36.27	31.52	170-180	3.510	19435	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

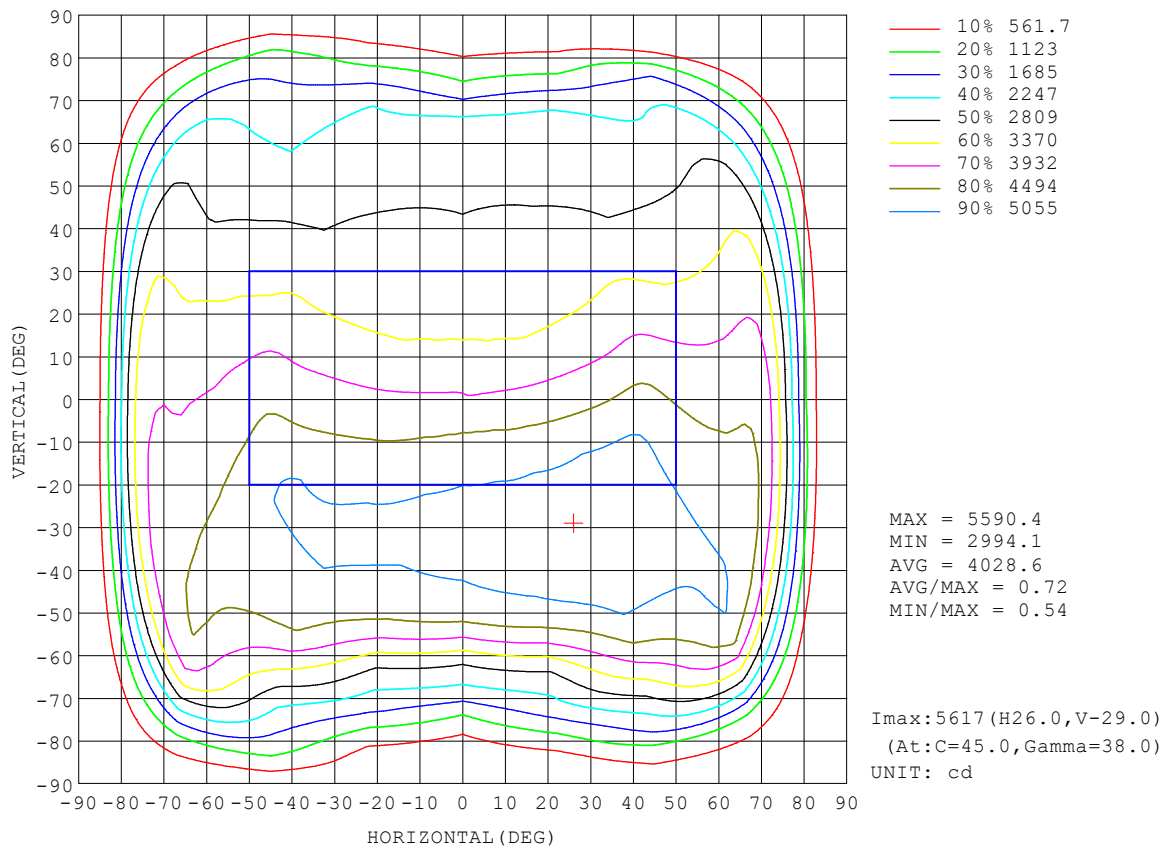
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

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=0.9790]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

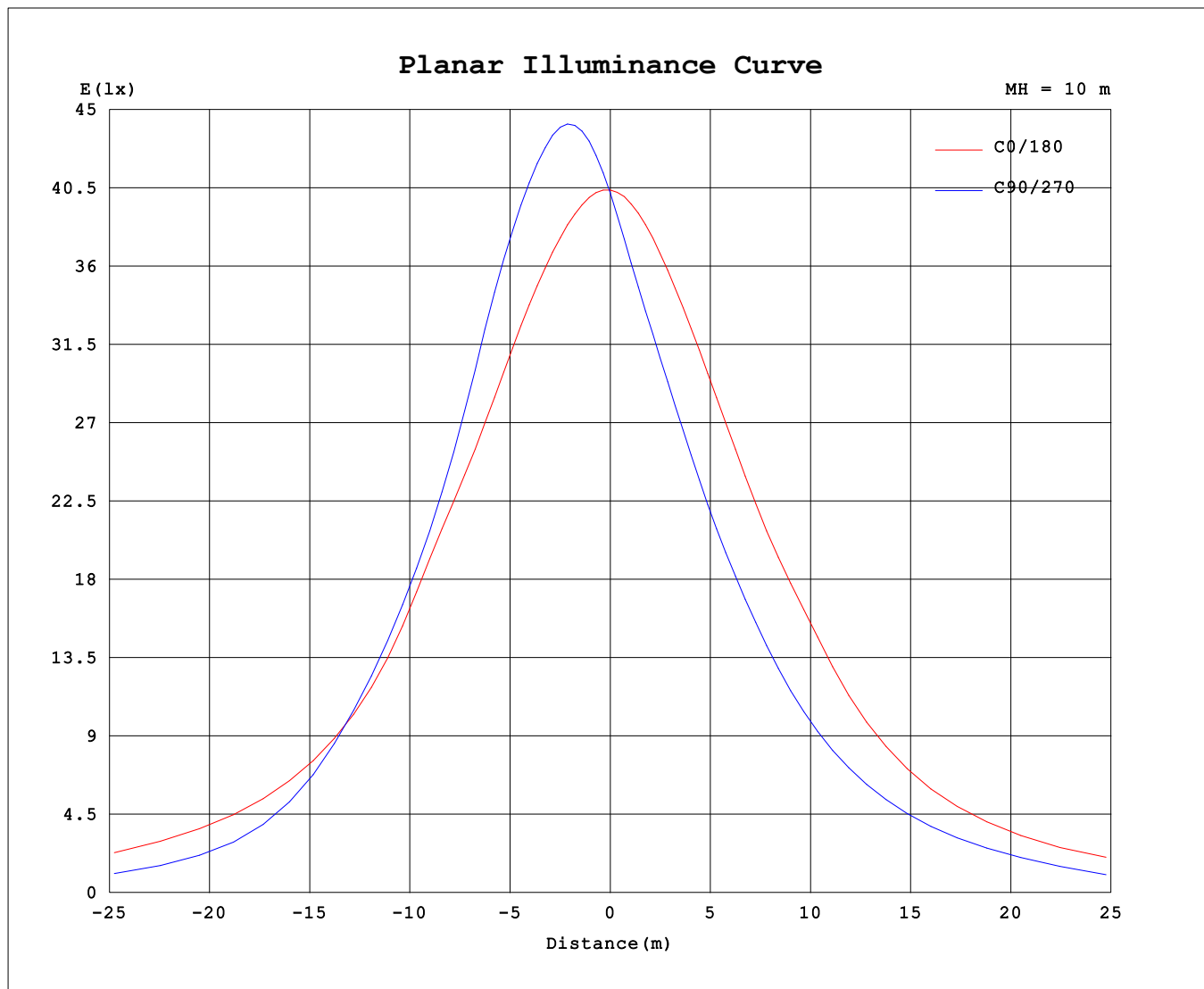
Test:U:119.87V I:1.0409A P:124.53W PF:0.9980 Freq:60.00Hz UTHDi:1.25% ITHDi:3.70% KDisp:0.9998 Lamp Flux:19434.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°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=0.9790]
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

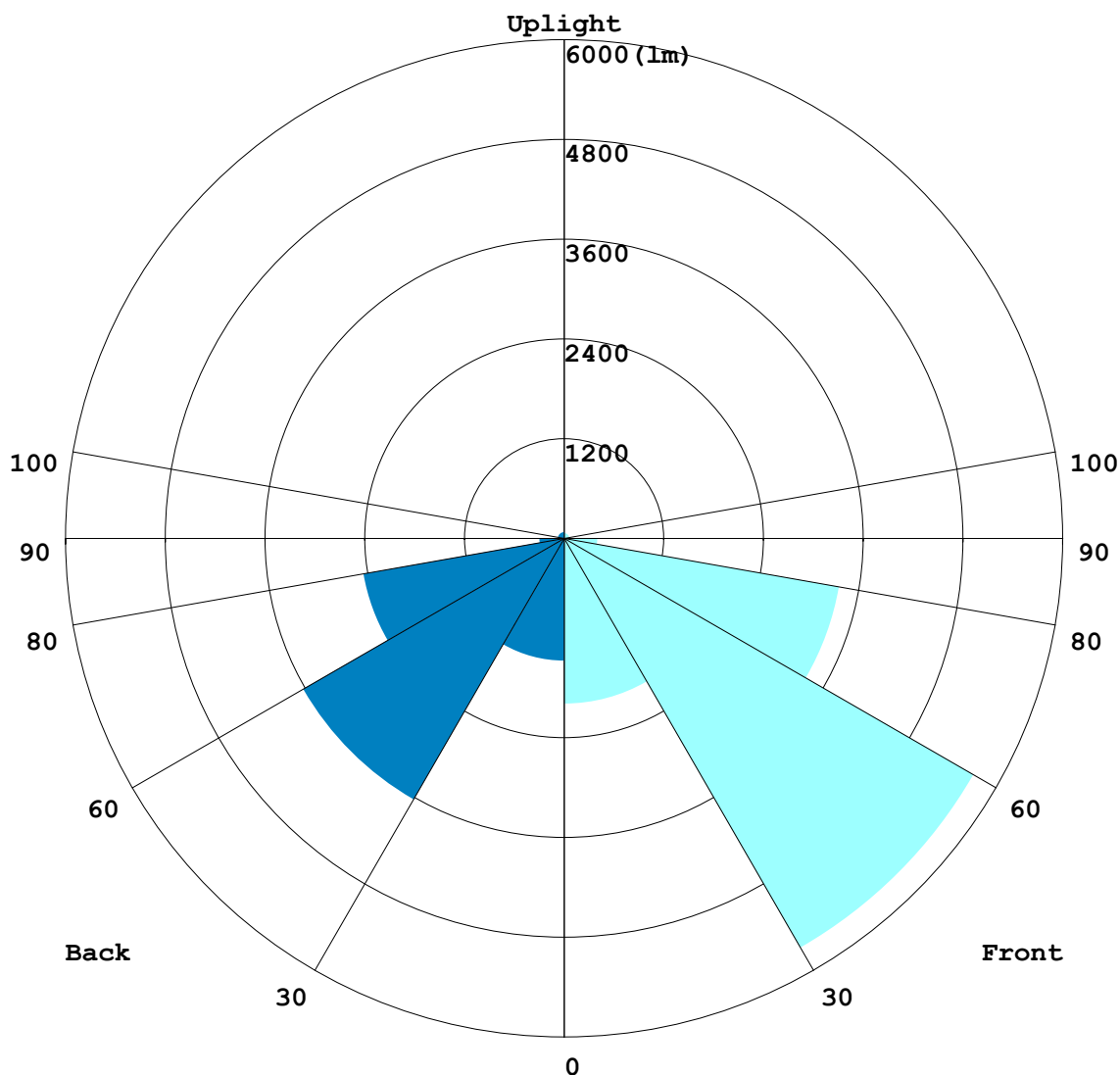
γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 6.895m [K=0.9790]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:119.87V I:1.0409A P:124.53W PF:0.9980 Freq:60.00Hz		
UTHDi:1.25% ITHDi:3.70% KDisp:0.9998 Lamp Flux:19434.6x1 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=0.9790]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:119.87V I:1.0409A P:124.53W PF:0.9980 Freq:60.00Hz UTHDi:1.25% ITHDi:3.70% KDisp:0.9998 Lamp Flux:19434.6x1 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)	1988.8	10.2
FM - Front-Medium(30-60)	5686.2	29.3
FH - Front-High(60-80)	3357.5	17.3
FVH - Front-Very High(80-90)	398.21	2.0
Total Forward Light	11502	59.2

BL - Back-Low(0-30)	1471.1	7.6
BM - Back-Medium(30-60)	3625.7	18.7
BH - Back-High(60-80)	2454.6	12.6
BVH - Back-Very High(80-90)	299.42	1.5
Total Back Light	7932.6	40.8

UL - Uplight-Low(90-100)	13.169	0.1
UH - Uplight-High(100-180)	139.86	0.7
Total Up Light	153.03	0.8

BUG(Back,Up,Glare) Rating	B3-U3-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	7850.9	81.694	7932.6
Street Side	11431	71.339	11502

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

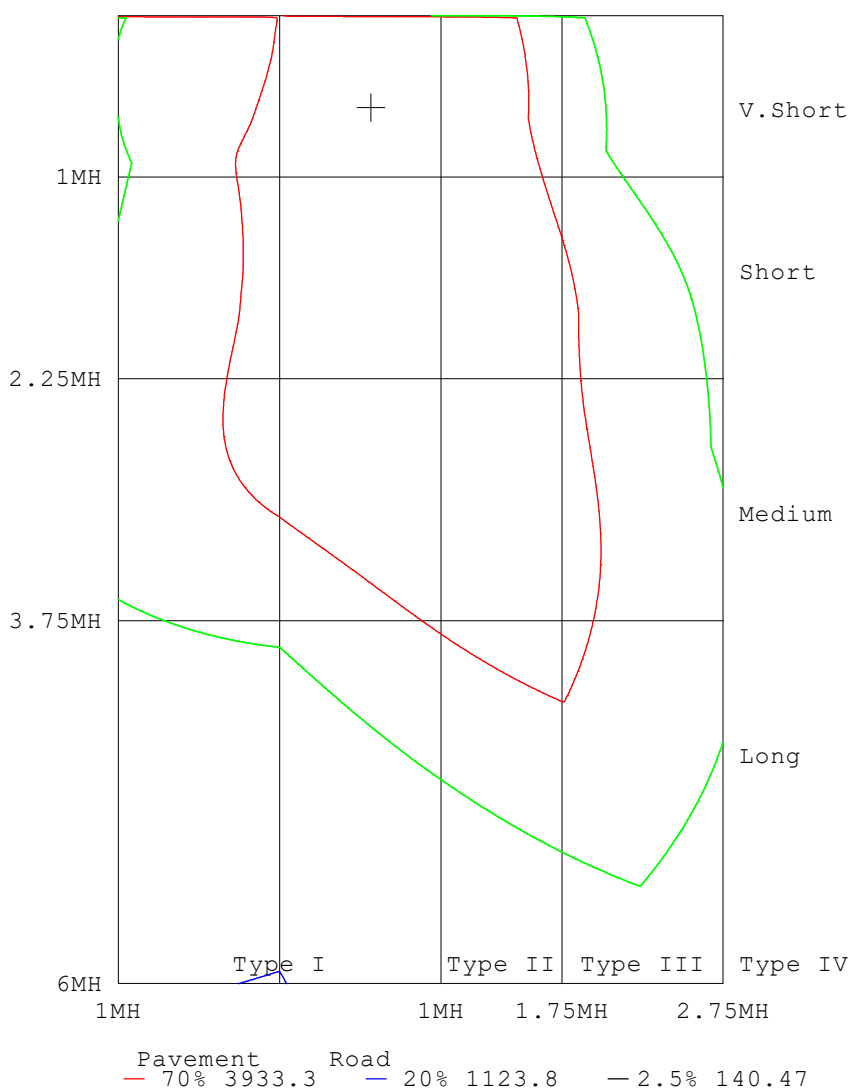
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=0.9790]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.87V I:1.0409A P:124.53W PF:0.9980 Freq:60.00Hz UTHDi:1.25% ITHDi:3.70% KDisp:0.9998 Lamp Flux:19434.6x1 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=0.9790]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.87V I:1.0409A P:124.53W PF:0.9980 Freq:60.00Hz		
UTHDi:1.25% ITHDi:3.70% KDisp:0.9998 Lamp Flux:19434.6x1 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	4015	4015	4015	4015	4015	4015	4015	4015	4015	4015	4015	4015	4015	4015	4015	4015			
5	4029	4122	4199	4250	4262	4240	4184	4103	4006	3914	3838	3792	3779	3800	3854	3937			
10	4060	4287	4466	4580	4610	4564	4432	4235	3996	3778	3609	3522	3497	3536	3642	3828			
15	4096	4401	4630	4774	4809	4744	4581	4322	3999	3700	3486	3387	3361	3403	3528	3774			
20	4180	4602	4875	5018	5044	4961	4768	4457	4027	3612	3331	3224	3198	3243	3387	3727			
25	4249	4755	5041	5165	5176	5073	4872	4556	4064	3572	3244	3132	3106	3156	3315	3710			
30	4359	5003	5308	5361	5307	5212	5025	4715	4134	3531	3131	3032	3006	3073	3220	3697			
35	4447	5187	5492	5399	5265	5219	5129	4828	4178	3507	3064	2998	2956	3049	3164	3692			
40	4629	5517	5581	5283	5118	5099	5200	5035	4263	3476	2965	2948	2865	2993	3084	3733			
45	4618	5523	5507	5181	5005	4998	5171	5183	4349	3478	2902	2872	2794	2910	3051	3704			
50	4423	5303	5366	4971	4691	4781	5082	5073	4246	3344	2778	2706	2698	2747	2907	3491			
55	4342	5230	5265	4668	4220	4474	5004	4977	4120	3212	2652	2604	2638	2654	2776	3373			
60	4307	5161	5012	3753	3138	3588	4781	4847	3948	2999	2461	2468	2524	2531	2591	3226			
65	4344	5150	4650	3031	2551	2913	4411	4804	3889	2884	2314	2385	2400	2463	2468	3164			
70	4251	5134	3759	2320	1807	2220	3448	4719	3894	2730	2101	2253	1723	2199	2310	3145			
75	3385	4886	3006	1939	1107	1771	2729	4612	3802	2688	1940	1864	1168	1632	2246	2898			
80	1225	2929	1945	973	426	798	1912	3693	2197	1980	1618	989	585	793	1664	1558			
85	281	959	1022	423	170	354	1387	1875	778	874	1173	560	259	387	502	473			
90	13.7	32.1	12.7	14.3	7.54	33.6	92.7	77.2	14.1	12.5	6.85	4.51	3.75	6.31	9.72	15.6			
95	16.6	13.1	10.3	11.0	7.82	6.62	8.30	9.76	11.9	12.7	8.01	4.95	5.41	8.72	12.7	12.2			
100	21.7	17.2	13.3	11.7	10.3	9.39	10.7	12.5	17.7	17.1	11.4	7.72	8.59	12.9	17.2	15.6			
105	24.6	19.7	15.3	13.3	12.3	11.1	12.2	14.1	21.1	19.9	13.9	10.0	11.1	16.0	20.0	17.6			
110	29.2	23.7	18.8	16.0	15.1	13.8	14.8	16.7	25.7	24.3	18.2	14.1	15.6	20.6	24.2	21.0			
115	32.4	26.6	21.1	17.9	17.0	15.6	16.6	18.7	29.0	27.8	21.2	17.1	18.7	23.8	26.9	23.7			
120	36.7	30.5	24.1	20.6	19.6	18.2	19.2	21.4	34.2	32.5	25.5	21.7	23.3	28.0	30.5	27.1			
125	38.6	32.5	25.7	22.0	21.1	19.8	20.7	22.8	37.0	35.0	28.2	24.7	26.2	30.6	32.5	28.6			
130	39.6	34.1	27.4	23.5	22.8	21.7	22.3	23.7	39.9	38.2	32.1	29.0	30.1	33.8	34.6	29.7			
135	39.7	34.6	28.4	24.3	23.5	22.7	23.0	24.2	41.1	39.5	34.3	31.5	32.5	35.3	35.4	30.1			
140	40.0	35.4	29.9	25.8	24.4	23.7	23.9	24.8	41.9	40.9	36.8	34.8	35.7	36.9	35.5	30.1			
145	40.2	36.0	30.8	26.9	25.2	24.4	24.2	25.2	41.9	41.5	38.0	36.4	37.1	37.4	35.1	29.8			
150	40.4	36.9	32.3	28.6	26.6	25.3	25.0	25.8	42.0	41.9	39.5	37.9	38.3	37.5	34.3	29.4			
155	40.4	37.4	33.4	29.8	27.6	26.0	25.5	26.1	42.0	42.0	40.2	38.7	38.6	37.2	33.9	29.3			
160	40.6	38.4	35.1	31.8	29.3	27.4	26.5	26.6	42.2	42.4	41.1	39.7	38.8	36.8	33.4	29.3			
165	41.0	39.3	36.3	33.4	30.6	28.5	27.3	27.1	42.5	42.6	41.5	40.1	38.7	36.5	33.1	29.5			
170	41.8	40.7	38.4	35.6	32.7	30.4	28.8	28.2	43.0	42.8	41.9	40.3	38.5	36.0	32.9	29.9			
175	42.5	41.7	39.7	36.9	34.1	31.7	30.0	29.0	43.3	42.9	41.8	40.0	38.0	35.4	32.7	30.2			
180	43.1	42.5	41.0	38.7	36.2	33.7	31.5	29.9	43.1	42.5	41.0	38.7	36.3	33.8	31.5	30.0			

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=0.9790]

Remarks: