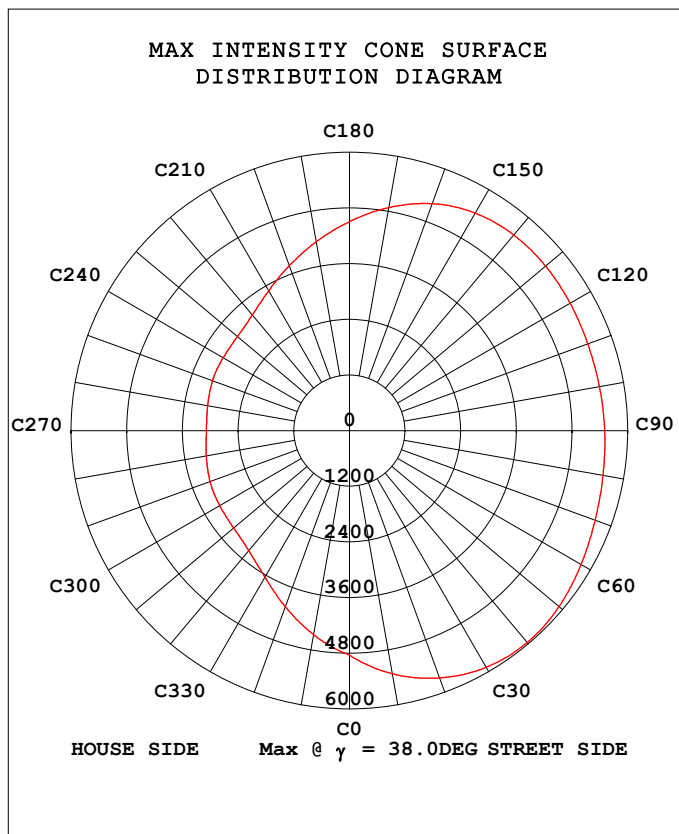
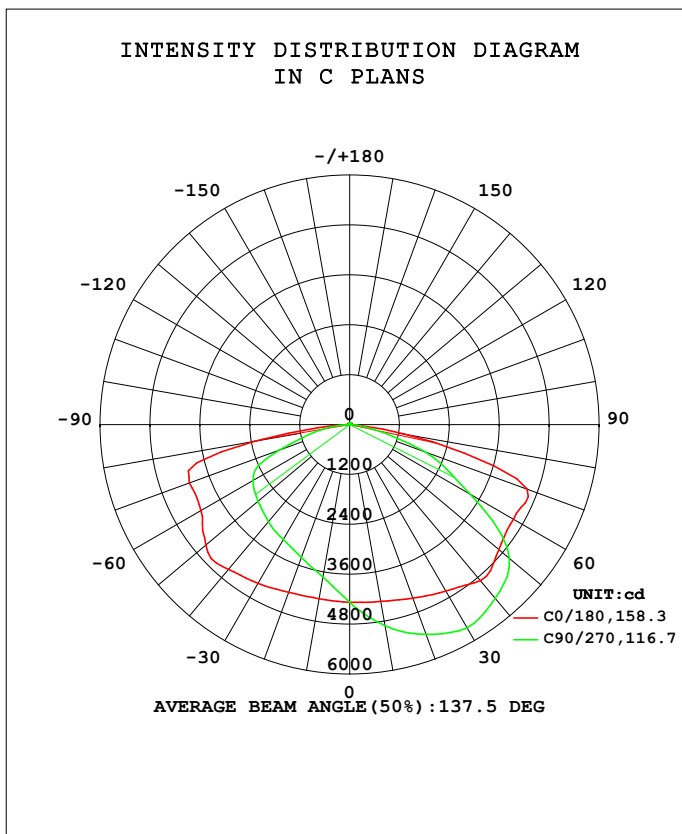


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.93V I:1.0623A P:127.15W PF:0.9980 Freq:60.01Hz		
UTHDi:1.35% ITHDi:3.46% KDisp:0.9998 Lamp Flux:20667.3x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 162.54 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-150W-BR-PS-XX	Imax (cd)	5944	η street_up (%)	0.4
NOMINAL POWER (W)	150	LOR (%)	100.0	η street_down (%)	58.9
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	20667	η house_up (%)	0.4
NOMINAL FLUX (lm)	20667.3	MAXIMUM @ (C, γ)	45,38.0	η house_down (%)	40.3
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.2	SLI	24.010



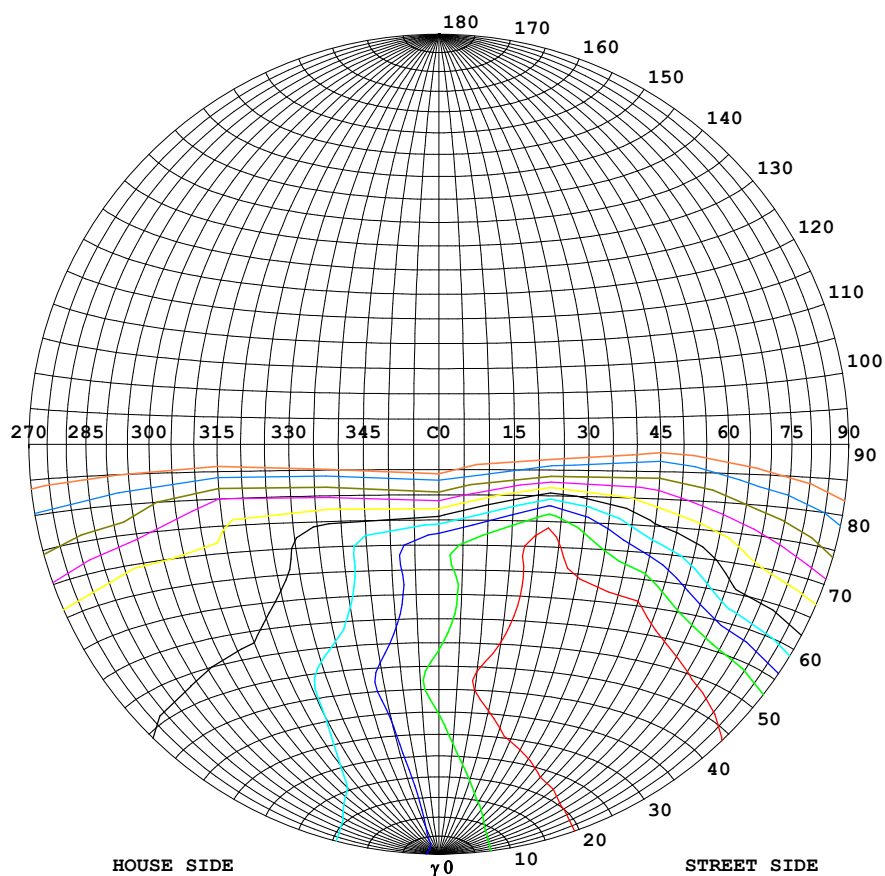
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

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=1.0297]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.93V I:1.0623A P:127.15W PF:0.9980 Freq:60.01Hz		
UTHDi:1.35% ITHDi:3.46% KDisp:0.9998 Lamp Flux:20667.3x1 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.At80:188.8cd/klm
 Max.At90:4.640cd/klm
 Max.80-90:188.8cd/klm

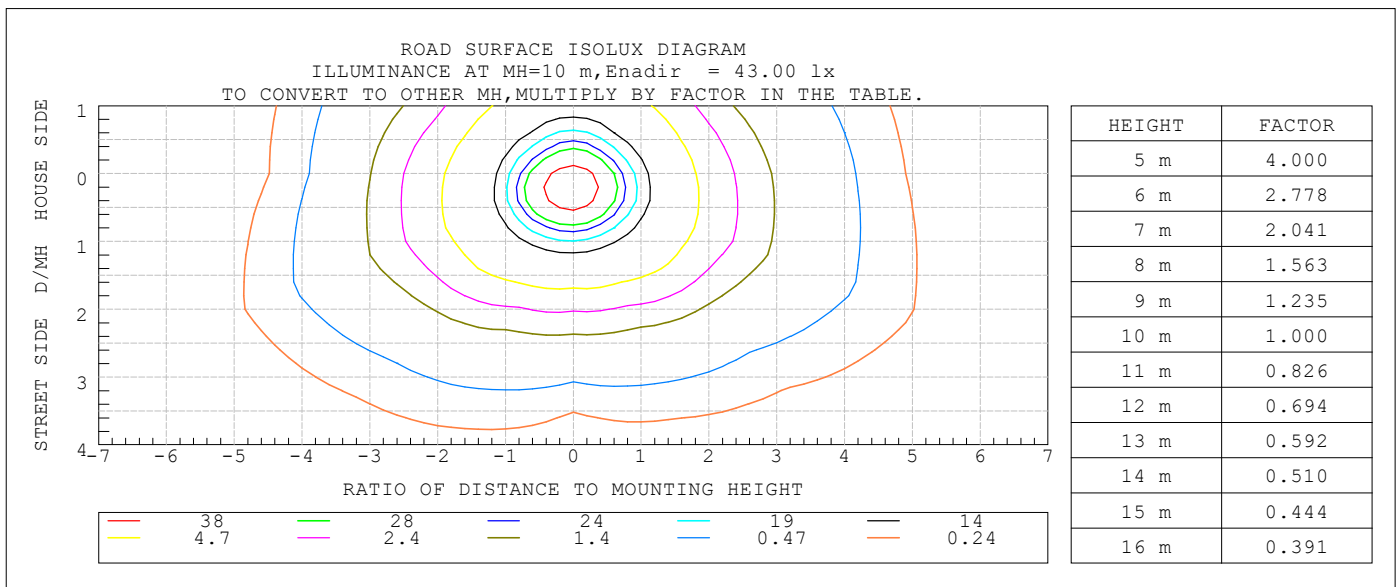
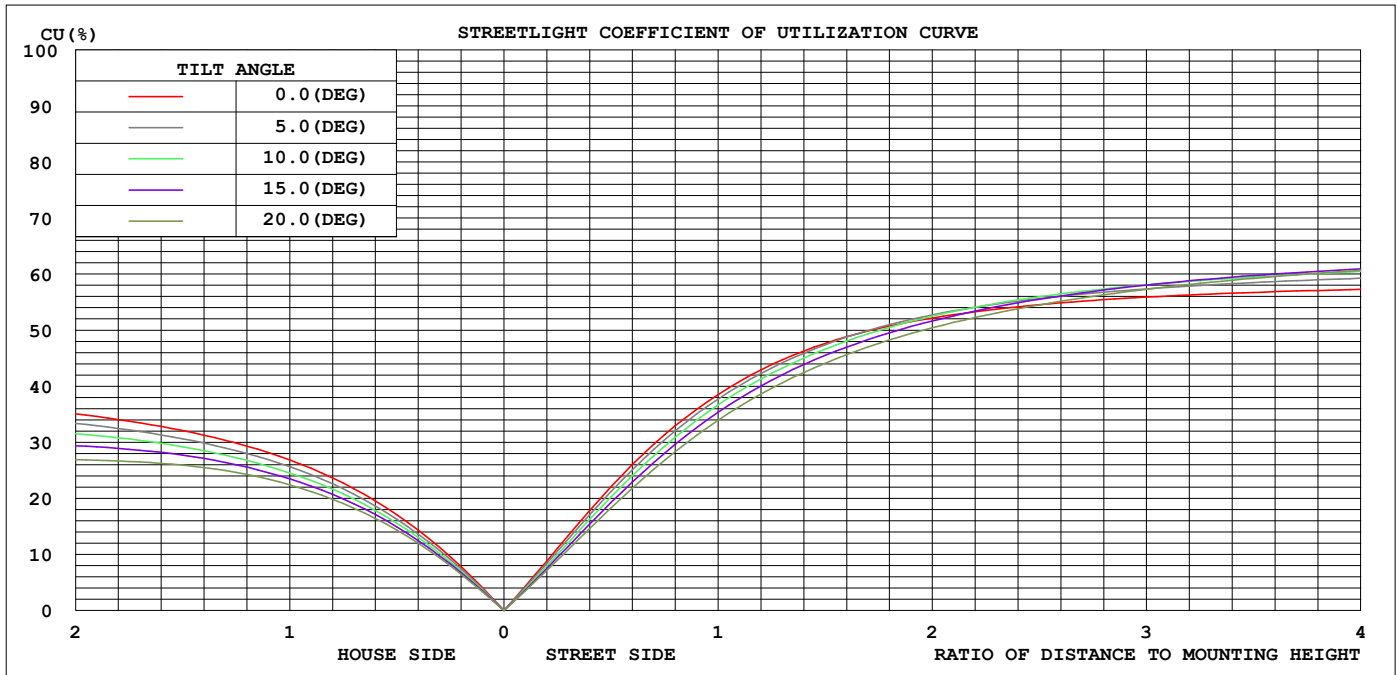
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5944
90%	5350
80%	4755
70%	4161
60%	3566
50%	2972
40%	2378
30%	1783
20%	1189
10%	594
5%	297

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=1.0297]
 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=1.0297]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:119.93V I:1.0623A P:127.15W PF:0.9980 Freq:60.01Hz		
UTHDi:1.35% ITHDi:3.46% KDisp:0.9998 Lamp Flux:20667.3x1 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	4317	4748	4912	4722	4254	3841	3722	3875	0- 10	409.1	409.1	1.98,1.98
20	4443	5178	5370	5081	4293	3548	3401	3603	10- 20	1229	1638	7.93,7.93
30	4624	5626	5641	5344	4410	3332	3196	3422	20- 30	2043	3681	17.8,17.8
40	4896	5940	5449	5531	4540	3155	3049	3277	30- 40	2821	6502	31.5,31.5
50	4680	5727	5013	5408	4514	2955	2875	3087	40- 50	3430	9931	48.1,48.1
60	4549	5389	3343	5094	4131	2608	2688	2757	50- 60	3654	13585	65.7,65.7
70	4541	4041	1934	3581	4108	2194	1823	2459	60- 70	3475	17060	82.5,82.5
80	1323	2069	452.1	2002	2324	1677	619.0	1798	70- 80	2701	19761	95.6,95.6
90	14.58	13.93	8.260	95.90	14.06	7.326	4.014	10.27	80- 90	742.9	20504	99.2,99.2
100	22.94	14.10	10.94	11.49	18.92	12.33	9.156	18.17	90-100	13.98	20518	99.3,99.3
110	30.89	19.93	16.07	15.72	27.42	19.61	16.59	25.67	100-110	18.45	20537	99.4,99.4
120	38.98	25.65	20.96	20.50	36.49	27.32	24.85	32.42	110-120	24.01	20561	99.5,99.5
130	42.12	29.13	24.33	23.74	42.41	34.30	32.13	36.84	120-130	26.93	20588	99.6,99.6
140	42.56	31.87	26.08	25.42	44.23	39.31	38.14	37.83	130-140	25.93	20614	99.7,99.7
150	43.05	34.52	28.40	26.59	44.54	42.12	40.98	36.66	140-150	22.26	20636	99.8,99.8
160	43.27	37.47	31.27	28.22	44.84	43.81	41.45	35.66	150-160	16.97	20653	99.9,99.9
170	44.48	41.03	34.90	30.67	45.67	44.66	41.09	35.20	160-170	10.77	20664	100,100
180	45.78	43.70	38.71	33.61	45.80	43.72	38.76	33.64	170-180	3.744	20667	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

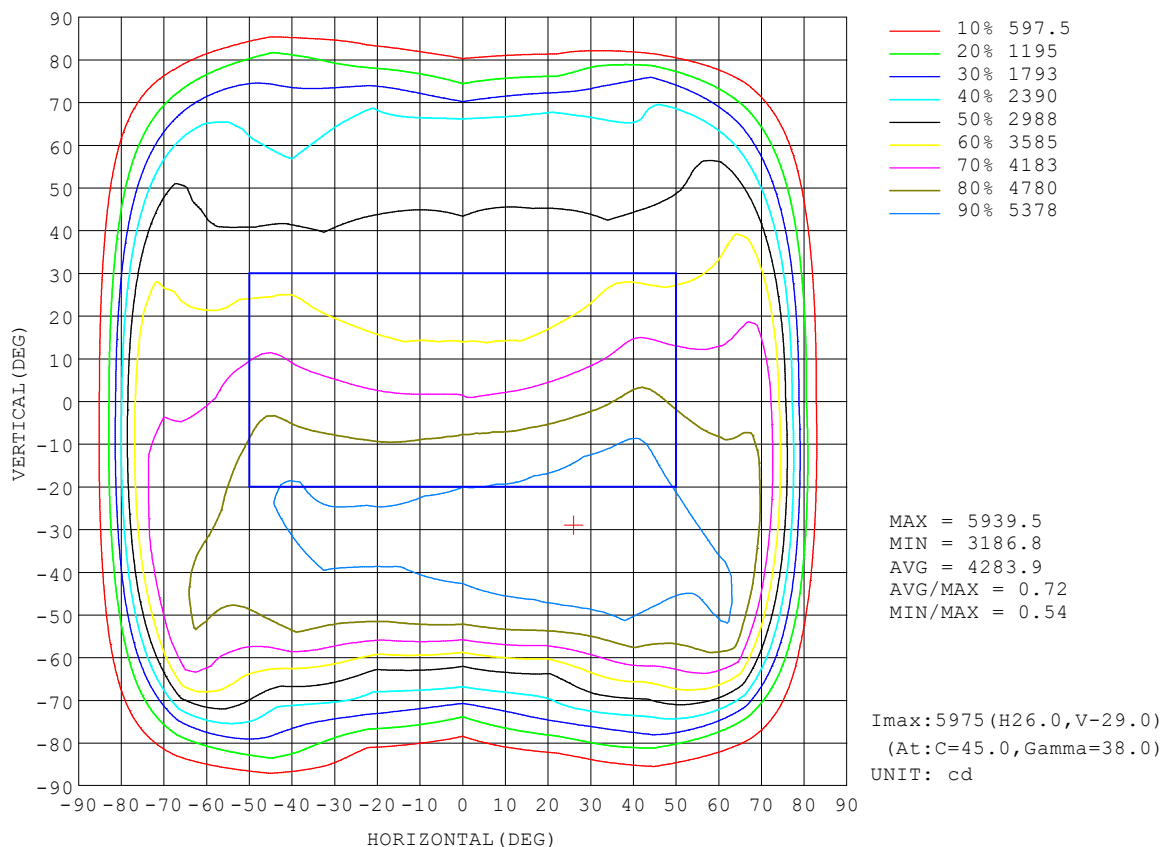
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

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=1.0297]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

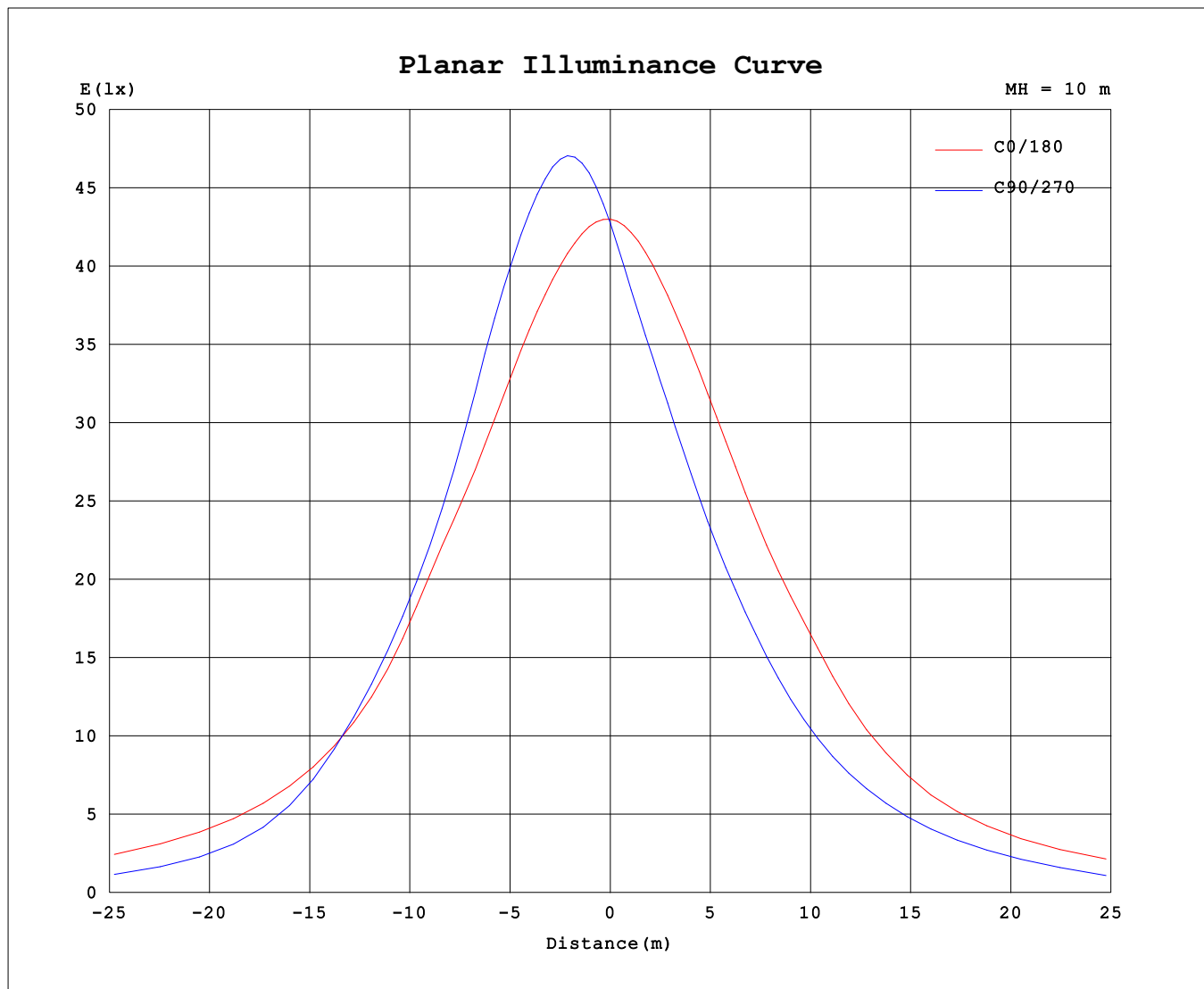
Test:U:119.93V I:1.0623A P:127.15W PF:0.9980 Freq:60.01Hz UTHDi:1.35% ITHDi:3.46% KDisp:0.9998 Lamp Flux:20667.3x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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=1.0297]
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=1.0297]

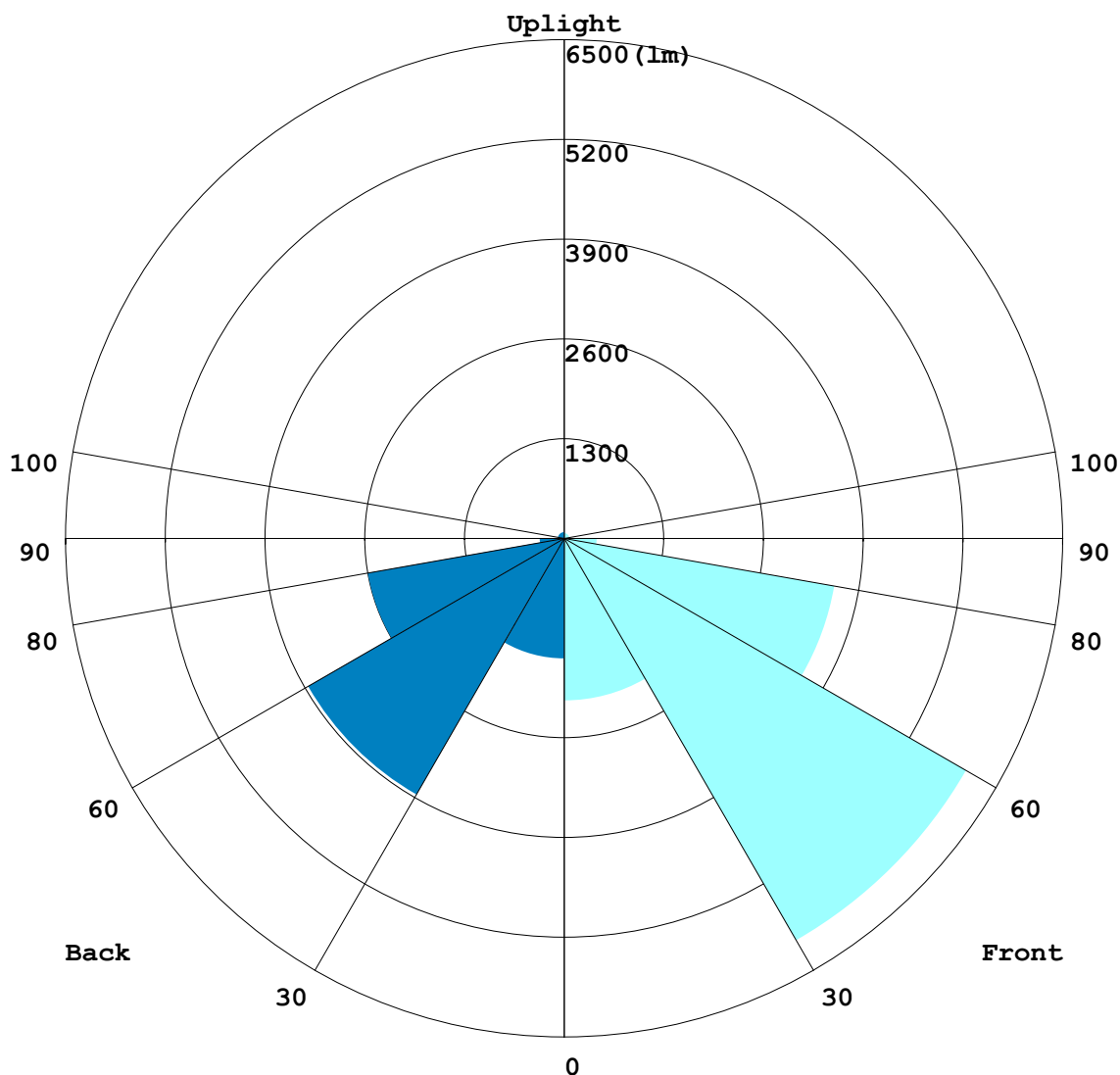
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:119.93V I:1.0623A P:127.15W PF:0.9980 Freq:60.01Hz		
UTHDi:1.35% ITHDi:3.46% KDisp:0.9998 Lamp Flux:20667.3x1 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=1.0297]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:119.93V I:1.0623A P:127.15W PF:0.9980 Freq:60.01Hz UTHDi:1.35% ITHDi:3.46% KDisp:0.9998 Lamp Flux:20667.3x1 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)	2115.1	10.2
FM - Front-Medium(30-60)	6050.7	29.3
FH - Front-High(60-80)	3576.3	17.3
FVH - Front-Very High(80-90)	423.31	2.0
Total Forward Light	12241	59.2

BL - Back-Low(0-30)	1565.6	7.6
BM - Back-Medium(30-60)	3853.7	18.6
BH - Back-High(60-80)	2599.9	12.6
BVH - Back-Very High(80-90)	319.6	1.5
Total Back Light	8425.9	40.8

UL - Uplight-Low(90-100)	13.981	0.1
UH - Uplight-High(100-180)	149.06	0.7
Total Up Light	163.04	0.8

BUG(Back,Up,Glare) Rating	B4-U3-G4
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	8338.8	87.124	8425.9
Street Side	12165	75.913	12241

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

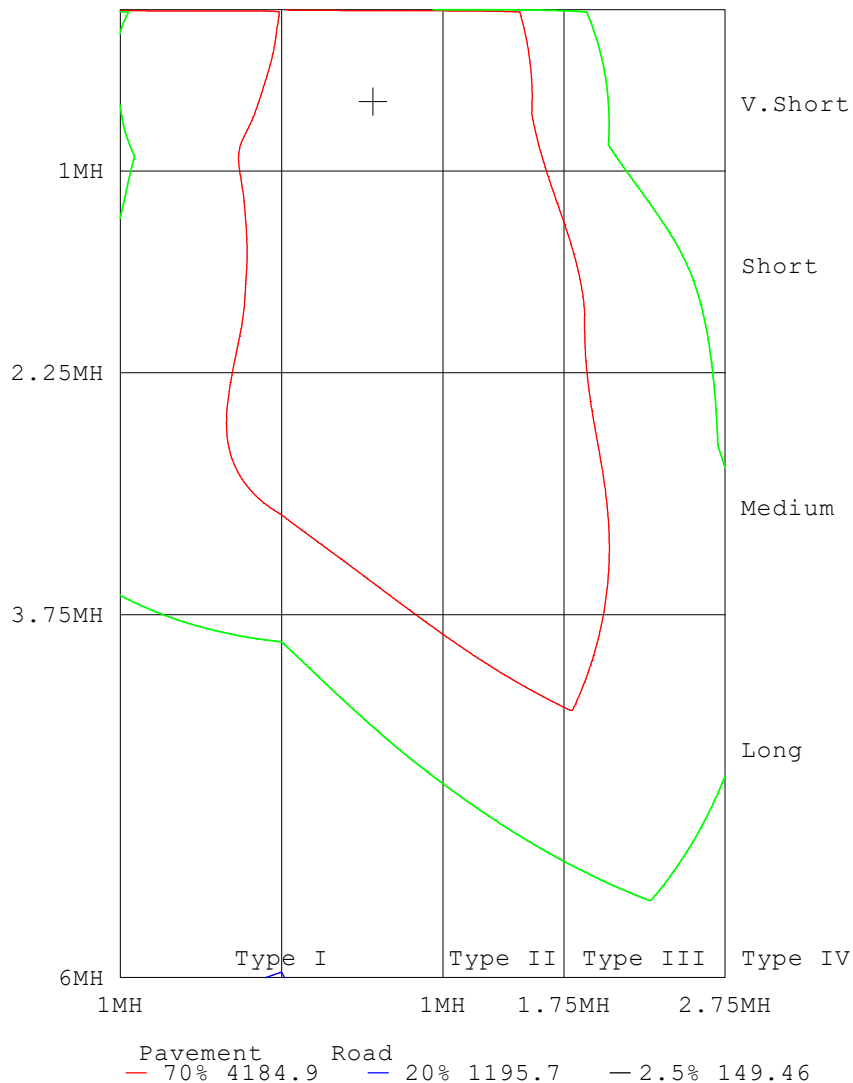
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0297]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.93V I:1.0623A P:127.15W PF:0.9980 Freq:60.01Hz		
UTHDi:1.35% ITHDi:3.46% KDisp:0.9998 Lamp Flux:20667.3x1 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=1.0297]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.93V I:1.0623A P:127.15W PF:0.9980 Freq:60.01Hz		
UTHDi:1.35% ITHDi:3.46% KDisp:0.9998 Lamp Flux:20667.3x1 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	4272	4272	4272	4272	4272	4272	4272	4272	4272	4272	4272	4272	4272	4272	4272	4272			
5	4287	4386	4467	4520	4538	4516	4453	4365	4263	4163	4083	4034	4020	4042	4099	4184			
10	4317	4557	4748	4875	4912	4862	4722	4509	4254	4017	3841	3748	3722	3763	3875	4071			
15	4356	4679	4926	5079	5122	5059	4882	4605	4257	3937	3711	3607	3579	3623	3752	4015			
20	4443	4888	5178	5332	5370	5288	5081	4752	4293	3847	3548	3431	3401	3450	3603	3964			
25	4512	5046	5349	5481	5504	5405	5191	4857	4335	3804	3454	3331	3303	3356	3523	3944			
30	4624	5303	5626	5685	5641	5543	5344	5029	4410	3761	3332	3221	3196	3270	3422	3928			
35	4710	5497	5826	5732	5604	5552	5451	5144	4456	3736	3261	3182	3142	3244	3361	3922			
40	4896	5850	5940	5615	5449	5423	5531	5352	4540	3702	3155	3127	3049	3188	3277	3963			
45	4880	5871	5867	5517	5335	5319	5499	5511	4625	3701	3085	3051	2973	3100	3238	3930			
50	4680	5645	5727	5306	5013	5095	5408	5401	4514	3560	2955	2880	2875	2925	3087	3704			
55	4593	5575	5634	5000	4517	4775	5328	5288	4365	3409	2820	2773	2812	2823	2952	3581			
60	4549	5507	5389	4017	3343	3822	5094	5094	4131	3147	2608	2630	2688	2692	2757	3417			
65	4578	5491	5017	3229	2717	3088	4684	5045	4082	3033	2427	2539	2548	2618	2627	3341			
70	4541	5518	4041	2487	1934	2362	3581	5006	4108	2897	2194	2395	1823	2338	2459	3319			
75	3616	5295	3221	2112	1180	1880	2840	4847	4036	2838	2037	1968	1231	1726	2402	3104			
80	1323	3232	2069	1060	452	826	2002	3901	2324	2096	1677	1042	619	833	1798	1708			
85	304	1050	1119	455	179	368	1490	1828	787	954	1204	590	275	408	565	554			
90	14.6	35.1	13.9	16.2	8.26	34.5	95.9	77.5	14.1	12.8	7.33	5.39	4.01	6.66	10.3	16.3			
95	17.5	13.9	10.8	11.8	8.39	7.04	8.89	10.4	12.8	13.7	8.69	5.35	5.75	9.20	13.4	13.0			
100	22.9	18.2	14.1	12.3	10.9	10.02	11.5	13.3	18.9	18.4	12.3	8.28	9.16	13.7	18.2	16.5			
105	26.1	20.9	16.2	14.1	13.1	11.9	13.0	15.0	22.5	21.4	15.0	10.7	11.9	16.9	21.1	18.7			
110	30.9	25.2	19.9	17.0	16.1	14.7	15.7	17.8	27.4	26.1	19.6	15.1	16.6	21.9	25.7	22.3			
115	34.4	28.3	22.4	19.0	18.1	16.6	17.7	19.9	31.0	29.8	22.8	18.4	19.9	25.3	28.6	25.2			
120	39.0	32.4	25.7	21.9	21.0	19.4	20.5	22.8	36.5	34.8	27.3	23.2	24.9	29.8	32.4	28.8			
125	41.0	34.6	27.3	23.4	22.5	21.1	22.1	24.2	39.4	37.5	30.2	26.4	28.0	32.6	34.5	30.4			
130	42.1	36.2	29.1	25.0	24.3	23.1	23.7	25.2	42.4	40.7	34.3	31.0	32.1	36.0	36.8	31.6			
135	42.3	36.8	30.2	25.9	25.1	24.2	24.5	25.7	43.6	42.2	36.6	33.7	34.8	37.7	37.7	32.0			
140	42.6	37.7	31.9	27.5	26.1	25.3	25.4	26.3	44.2	43.6	39.3	37.1	38.1	39.4	37.8	32.1			
145	42.8	38.4	32.9	28.7	26.9	26.0	25.8	26.8	44.4	44.2	40.6	38.8	39.6	40.0	37.4	31.8			
150	43.0	39.3	34.5	30.6	28.4	27.0	26.6	27.5	44.5	44.6	42.1	40.5	41.0	40.1	36.7	31.4			
155	43.1	39.9	35.6	31.8	29.5	27.7	27.2	27.8	44.6	44.8	42.9	41.4	41.3	39.8	36.2	31.2			
160	43.3	41.0	37.5	33.9	31.3	29.3	28.2	28.3	44.8	45.1	43.8	42.4	41.5	39.4	35.7	31.3			
165	43.6	41.8	38.8	35.7	32.6	30.5	29.1	28.9	45.2	45.3	44.2	42.8	41.4	39.1	35.4	31.5			
170	44.5	43.4	41.0	38.0	34.9	32.5	30.7	30.1	45.7	45.5	44.7	43.0	41.1	38.5	35.2	31.9			
175	45.2	44.5	42.3	39.4	36.4	33.9	31.9	30.9	46.0	45.7	44.6	42.7	40.6	37.8	34.9	32.2			
180	45.8	45.3	43.7	41.3	38.7	36.1	33.6	31.9	45.8	45.3	43.7	41.3	38.8	36.1	33.6	31.9			

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=1.0297]

Remarks: