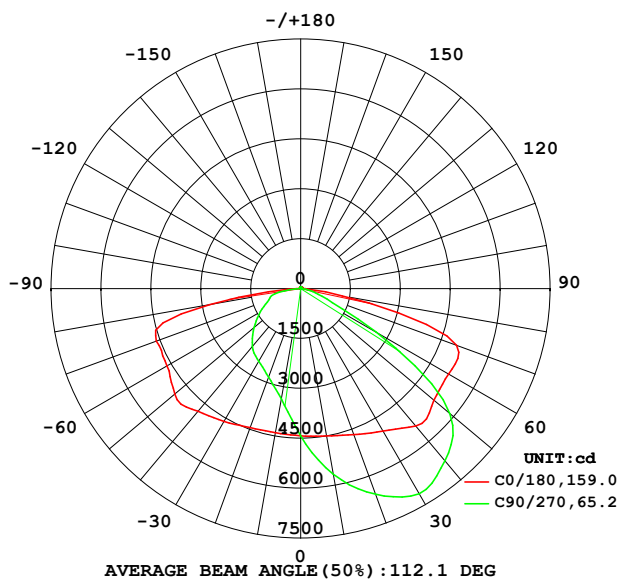
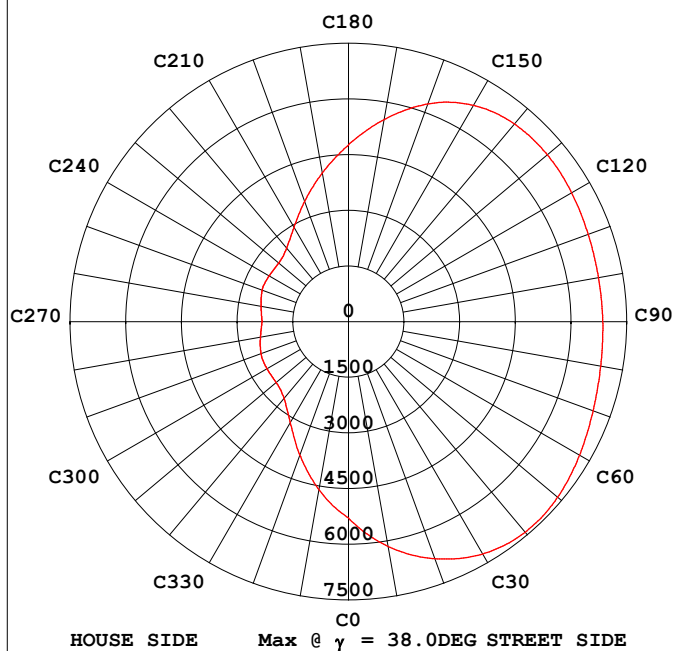


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.97V I:1.0846A P:129.88W PF:0.9981 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20400.8x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.07 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-150W-BR-PS-XX	Imax (cd)	7408	η street_up (%)	0.3
NOMINAL POWER (W)	150	LOR (%)	100.0	η street_down (%)	66.4
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	20401	η house_up (%)	0.5
NOMINAL FLUX (lm)	20400.8	MAXIMUM @ (C, γ)	45,38.0	η house_down (%)	32.8
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.2	SLI	23.991

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION 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%

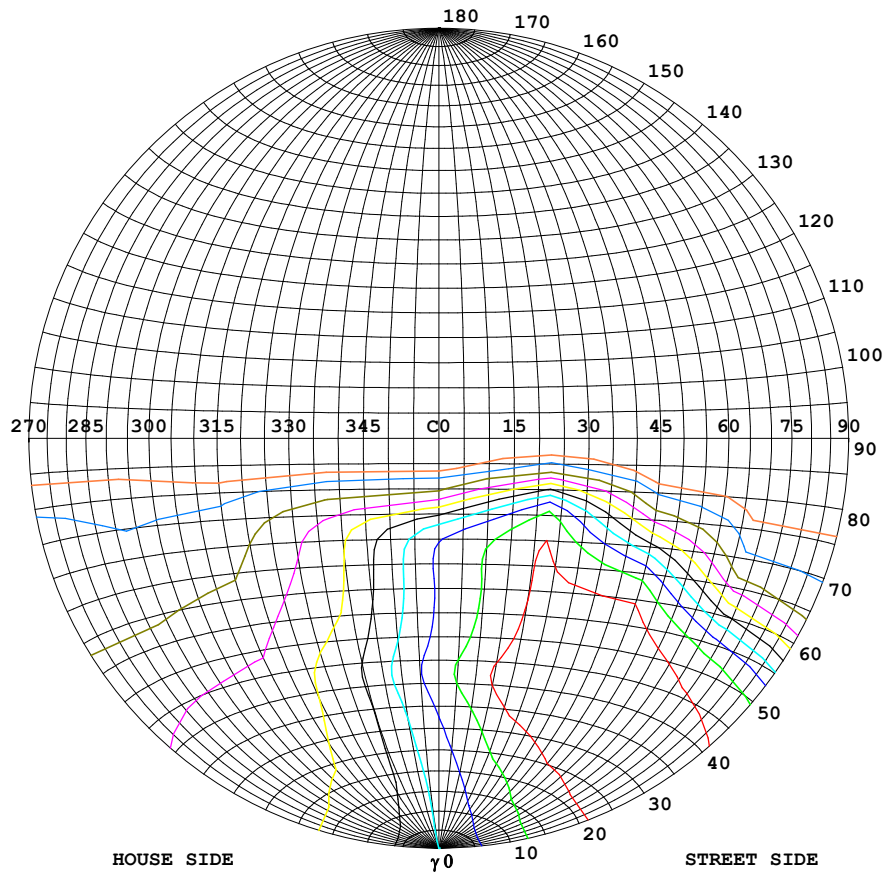
Test Distance: 6.895m [K=1.0000]

Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.97V I:1.0846A P:129.88W PF:0.9981 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20400.8x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type III - Very Short
 CIE:Average - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:238.1cd/klm
 Max.At90:1.581cd/klm
 Max.80-90:238.1cd/klm

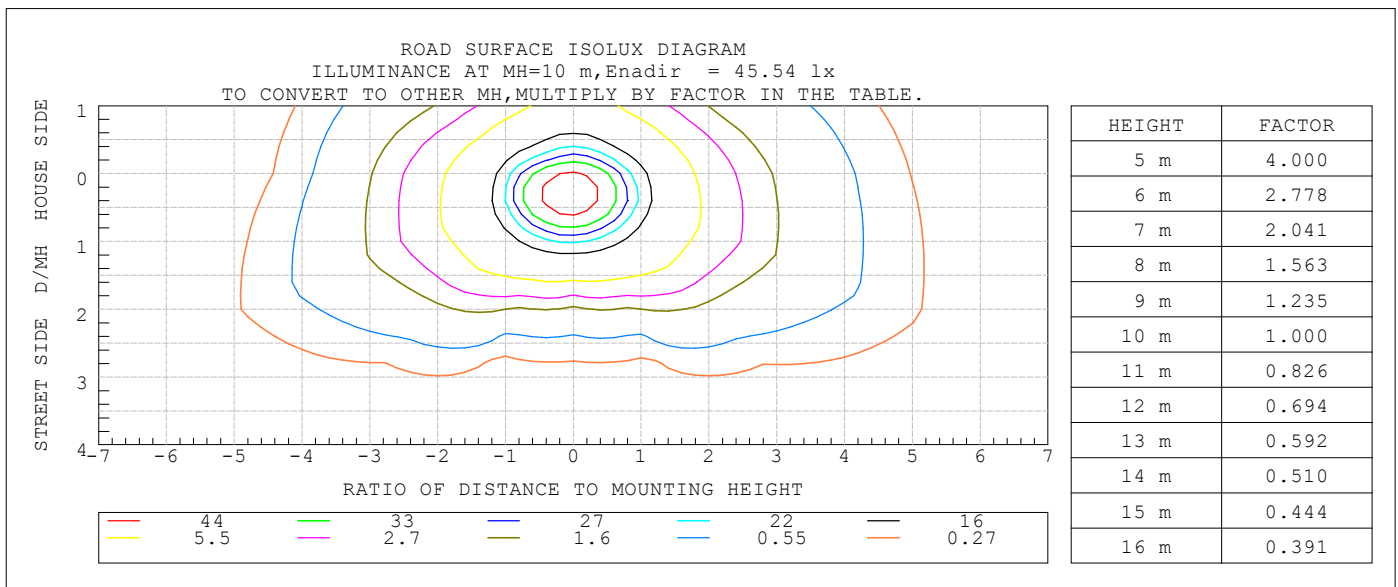
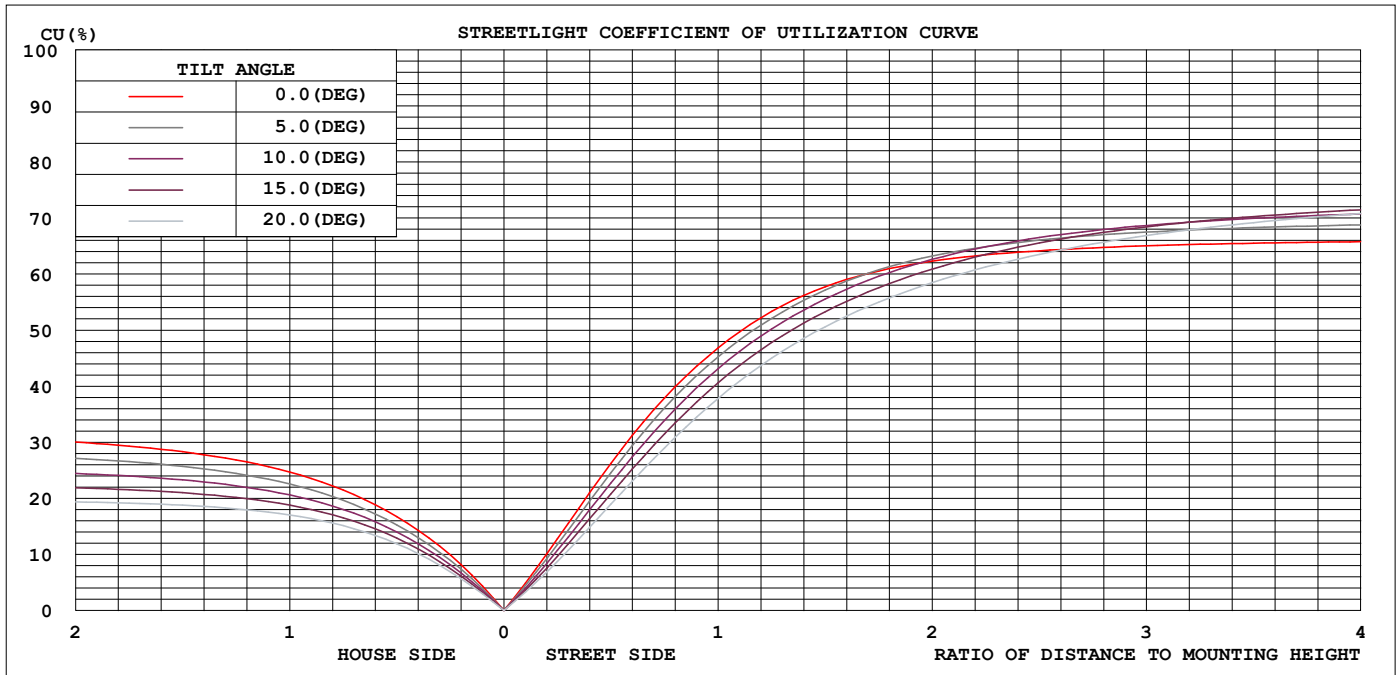
ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	7408
90%	6667
80%	5926
70%	5186
60%	4445
50%	3704
40%	2963
30%	2222
20%	1482
10%	741
5%	370

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=1.0000]
 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=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:119.97V I:1.0846A P:129.88W PF:0.9981 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20400.8x1 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	4500	5336	5663	5318	4399	3607	3373	3667	0- 10	425.3	425.3	2.08,2.08
20	4674	6146	6579	6070	4449	3071	2838	3174	10- 20	1293	1718	8.42,8.42
30	4946	6933	7122	6634	4610	2731	2528	2843	20- 30	2187	3905	19.1,19.1
40	5390	7379	6748	7011	4817	2439	2262	2535	30- 40	3052	6958	34.1,34.1
50	5233	7019	5851	6794	4938	2123	1834	2209	40- 50	3670	10628	52.1,52.1
60	5136	6467	2614	6388	4642	1680	1401	1712	50- 60	3730	14358	70.4,70.4
70	4985	3906	686.7	3921	4619	1188	1024	1202	60- 70	3166	17524	85.9,85.9
80	1277	674.6	222.4	879.9	2778	626.0	662.7	561.9	70- 80	2209	19733	96.7,96.7
90	16.24	7.772	4.843	19.91	19.96	3.654	2.102	10.66	80- 90	506.4	20239	99.2,99.2
100	26.88	10.87	6.063	6.083	21.11	8.087	4.929	21.06	90-100	11.02	20250	99.3,99.3
110	36.34	16.33	9.449	9.194	31.26	16.48	13.27	30.04	100-110	16.59	20267	99.3,99.3
120	46.09	22.02	13.29	12.74	42.38	25.67	23.89	38.76	110-120	22.81	20290	99.5,99.5
130	49.69	26.41	16.46	15.76	49.99	35.48	33.96	44.25	120-130	26.67	20316	99.6,99.6
140	49.98	30.51	19.39	18.54	52.69	44.06	43.42	44.67	130-140	26.72	20343	99.7,99.7
150	50.35	34.82	23.35	21.06	52.88	49.61	48.59	41.63	140-150	23.64	20367	99.8,99.8
160	50.71	39.67	28.26	23.87	53.14	52.41	49.03	38.57	150-160	18.33	20385	99.9,99.9
170	52.08	45.29	34.55	27.63	53.82	52.82	46.91	36.12	160-170	11.70	20397	100,100
180	53.58	50.13	41.47	32.33	53.72	50.26	41.61	32.44	170-180	4.073	20401	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

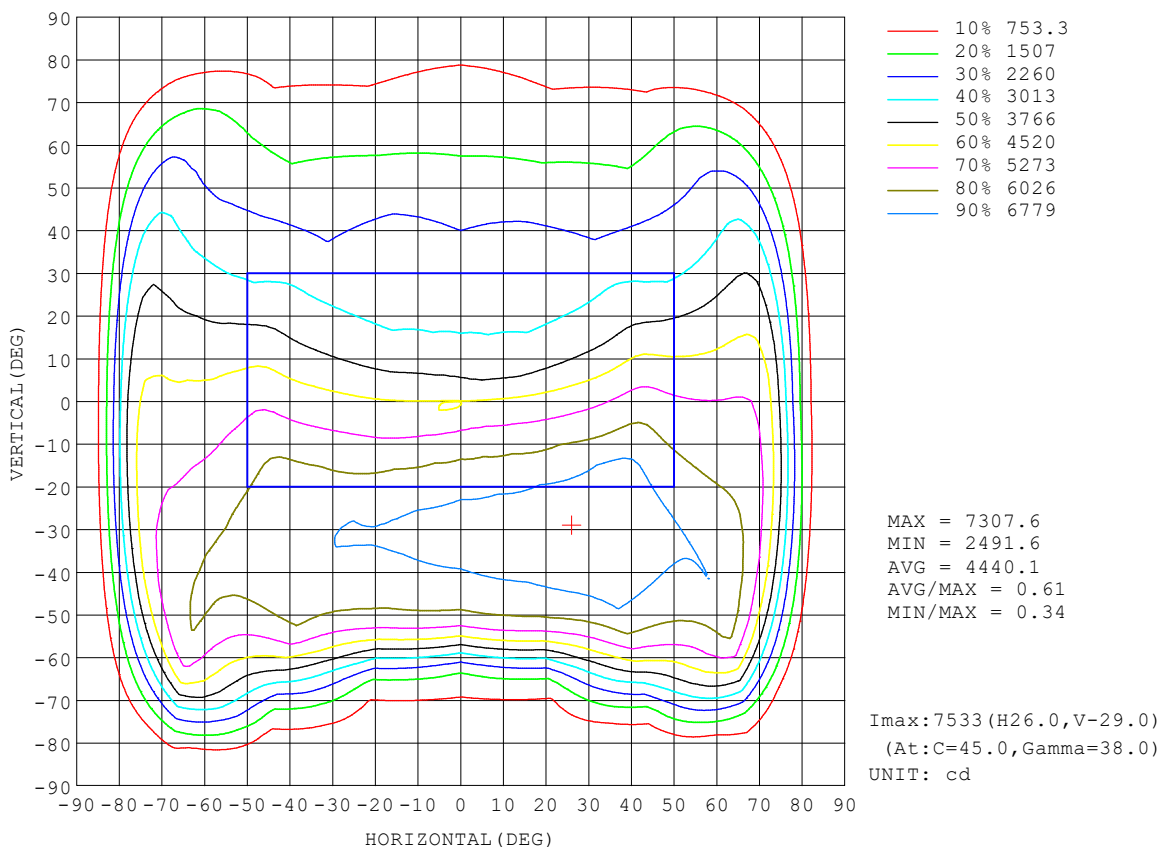
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

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=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

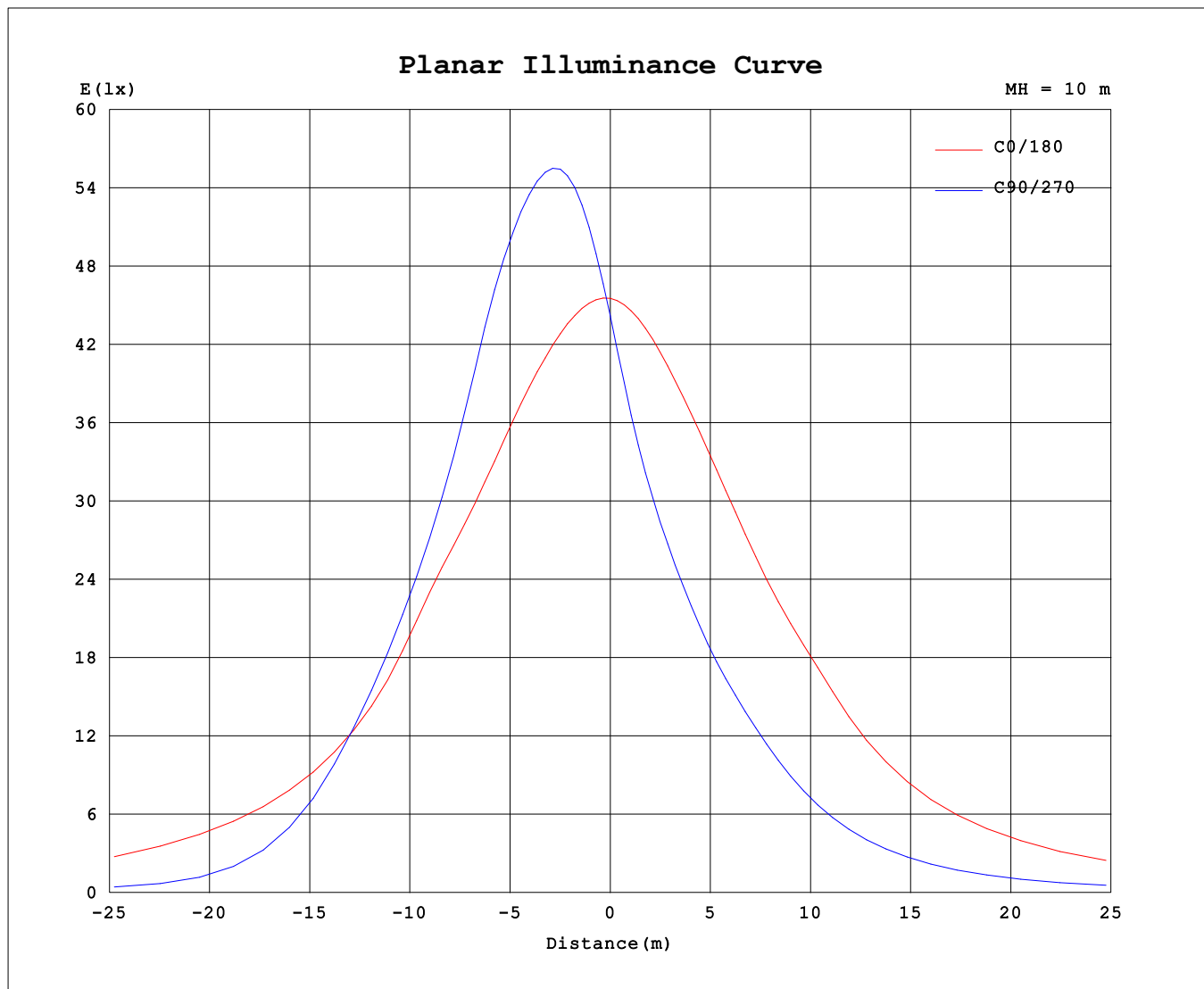
Test:U:119.97V I:1.0846A P:129.88W PF:0.9981 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20400.8x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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=1.0000]
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=1.0000]

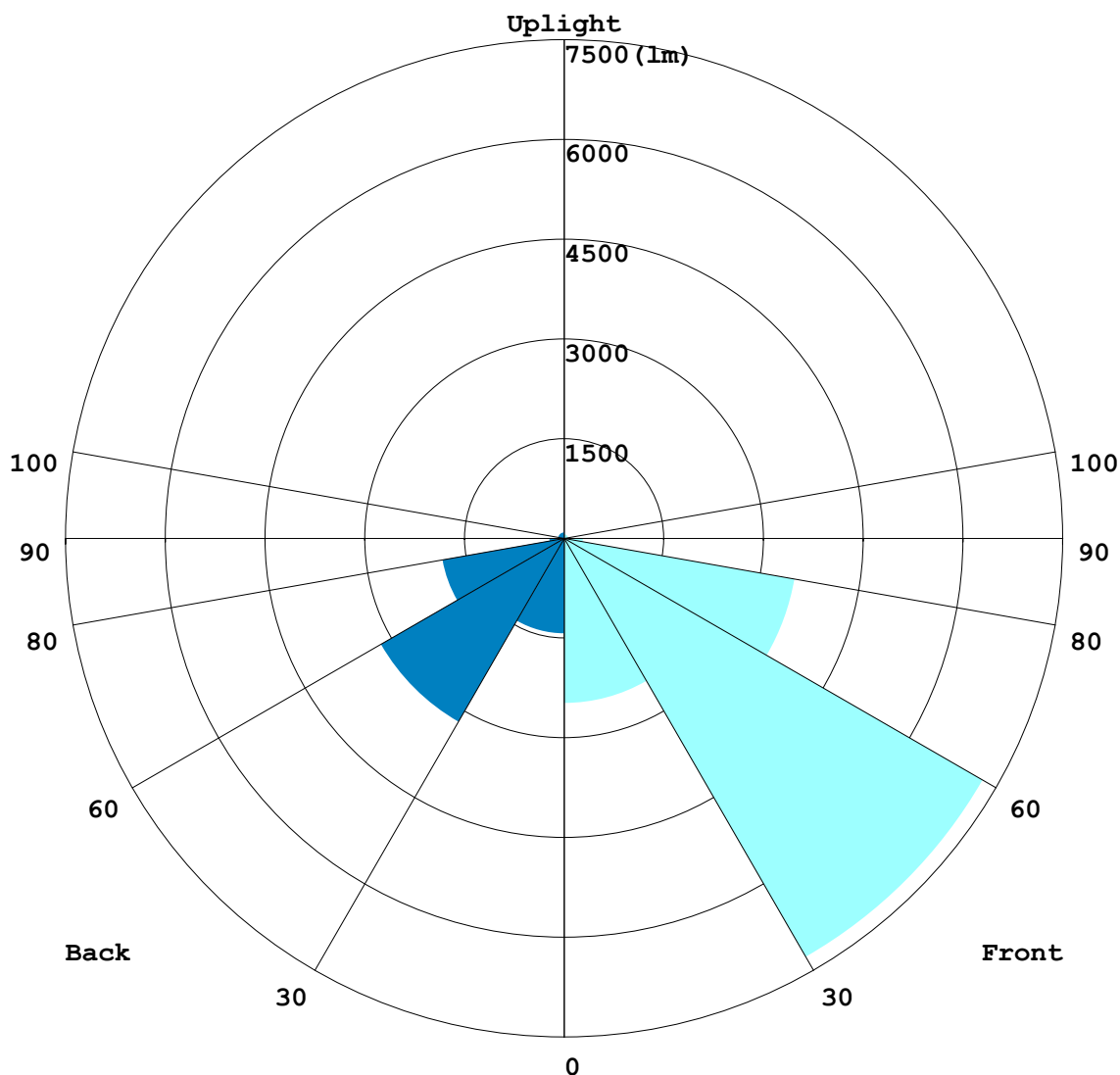
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:119.97V I:1.0846A P:129.88W PF:0.9981 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20400.8x1 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=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:119.97V I:1.0846A P:129.88W PF:0.9981 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20400.8x1 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)	2474.5	12.1
FM - Front-Medium(30-60)	7270.4	35.6
FH - Front-High(60-80)	3518.7	17.2
FVH - Front-Very High(80-90)	283.64	1.4
Total Forward Light	13614	66.7

BL - Back-Low(0-30)	1431	7.0
BM - Back-Medium(30-60)	3181.8	15.6
BH - Back-High(60-80)	1856.5	9.1
BVH - Back-Very High(80-90)	222.78	1.1
Total Back Light	6786.8	33.3

UL - Uplight-Low(90-100)	11.016	0.1
UH - Uplight-High(100-180)	150.54	0.7
Total Up Light	161.56	0.8

BUG(Back,Up,Glare) Rating	B3-U3-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	6692	94.763	6786.8
Street Side	13547	66.795	13614

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=1.0000]

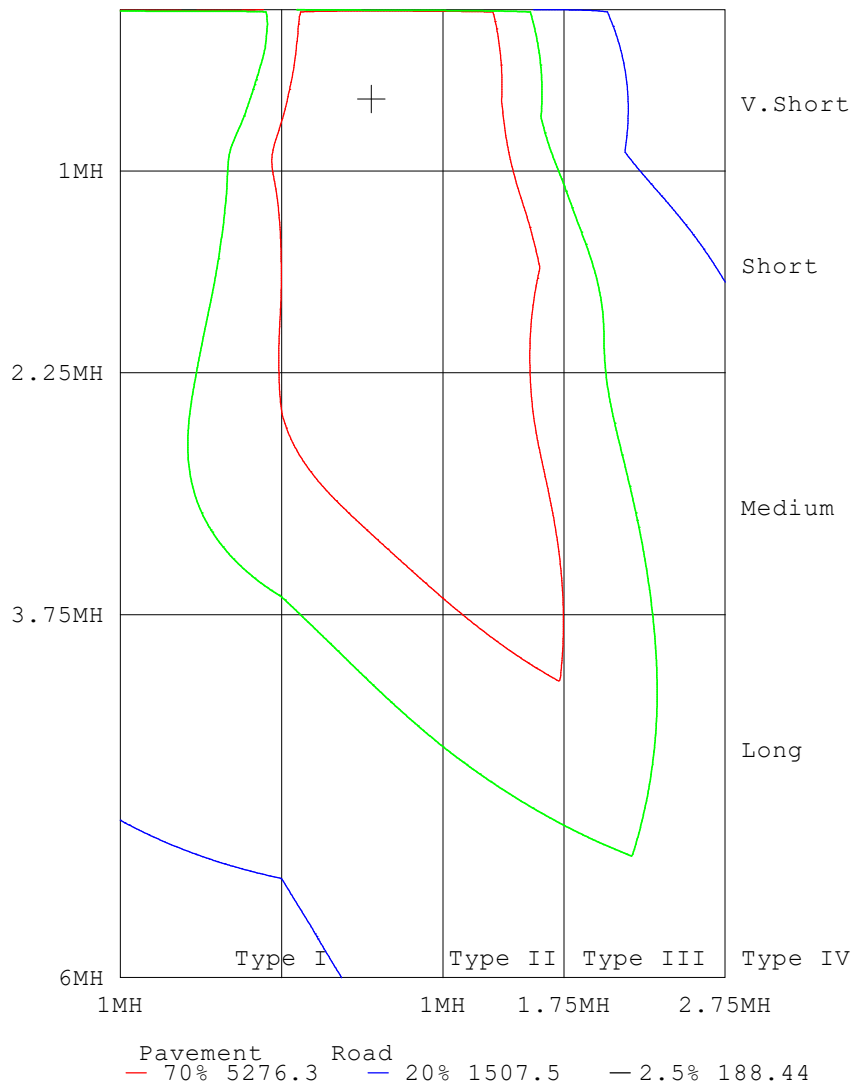
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.97V I:1.0846A P:129.88W PF:0.9981 Freq:0Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20400.8x1 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=1.0000]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.97V I:1.0846A P:129.88W PF:0.9981 Freq:0Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:20400.8x1 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	4424	4424	4424	4424	4424	4424	4424	4424	4424	4424	4424	4424	4424	4424	4424	4424			
5	4448	4640	4797	4904	4937	4900	4782	4610	4409	4221	4068	3971	3940	3984	4090	4255			
10	4500	4961	5336	5584	5663	5587	5318	4904	4399	3948	3607	3422	3373	3456	3667	4040			
15	4554	5181	5670	5982	6077	5985	5645	5099	4406	3793	3362	3160	3116	3202	3443	3924			
20	4674	5545	6146	6483	6579	6464	6070	5392	4449	3612	3071	2877	2838	2925	3174	3801			
25	4774	5811	6455	6772	6852	6715	6307	5598	4505	3522	2918	2732	2693	2785	3030	3744			
30	4946	6237	6933	7143	7122	7007	6634	5922	4610	3423	2731	2575	2528	2639	2843	3679			
35	5094	6549	7254	7197	7052	7033	6851	6145	4685	3369	2616	2527	2441	2588	2717	3648			
40	5390	7077	7379	6957	6748	6800	7011	6542	4817	3295	2439	2461	2262	2479	2535	3668			
45	5445	7088	7215	6757	6514	6607	6957	6836	4954	3271	2315	2340	2097	2312	2436	3631			
50	5233	6808	7019	6341	5851	6209	6794	6711	4938	3123	2123	2025	1834	1959	2209	3310			
55	5160	6729	6895	5716	4865	5626	6703	6595	4804	2945	1955	1794	1656	1736	2009	3130			
60	5136	6666	6467	3789	2614	3815	6388	6472	4642	2682	1680	1471	1401	1426	1712	2917			
65	5174	6648	5758	2331	1412	2411	5759	6473	4617	2536	1490	1266	1237	1228	1507	2821			
70	4985	6521	3906	846	687	901	3921	6450	4619	2326	1188	977	1024	945	1202	2714			
75	3934	6189	2405	495	464	539	2481	6291	4537	2248	960	792	951	776	972	2377			
80	1277	3695	675	227	222	258	880	4857	2778	1666	626	540	663	552	562	1102			
85	239	1022	149	99.1	100	130	259	2244	984	784	387	390	316	333	198	259			
90	16.2	32.2	7.77	9.85	4.84	12.2	19.9	28.5	20.0	12.1	3.65	2.70	2.10	3.81	10.7	16.5			
95	20.6	14.6	7.93	6.32	4.82	4.48	4.48	6.14	14.0	12.2	4.39	2.52	2.76	6.20	14.8	15.1			
100	26.9	19.3	10.9	6.66	6.06	5.92	6.08	8.28	21.1	17.6	8.09	4.24	4.93	11.5	21.1	19.3			
105	30.6	22.2	12.9	7.99	7.22	6.98	7.24	9.57	25.4	21.2	11.3	6.46	7.59	15.9	24.7	21.6			
110	36.3	27.0	16.3	10.3	9.45	8.95	9.19	11.6	31.3	26.7	16.5	11.3	13.3	22.5	30.0	25.5			
115	40.5	30.3	18.6	12.0	11.1	10.4	10.6	13.2	35.6	30.9	20.1	15.2	17.6	26.7	33.6	28.8			
120	46.1	34.9	22.0	14.5	13.3	12.6	12.7	15.6	42.4	37.2	25.7	21.2	23.9	32.5	38.8	32.6			
125	48.5	37.3	23.9	16.2	14.6	14.0	14.0	17.0	46.0	41.1	29.5	25.3	27.9	36.2	41.3	34.1			
130	49.7	39.3	26.4	18.5	16.5	15.7	15.8	18.4	50.0	46.0	35.5	31.6	34.0	41.4	44.2	34.9			
135	49.8	40.1	28.0	20.0	17.6	16.8	16.9	19.3	51.6	48.5	39.2	35.7	38.0	44.2	45.1	34.8			
140	50.0	41.4	30.5	22.5	19.4	18.3	18.5	20.6	52.7	51.4	44.1	41.2	43.4	47.1	44.7	34.0			
145	50.1	42.4	32.2	24.4	20.8	19.5	19.5	21.4	52.8	52.6	46.6	44.1	46.1	48.0	43.6	33.2			
150	50.4	43.8	34.8	27.4	23.3	21.4	21.1	22.6	52.9	53.5	49.6	47.4	48.6	47.8	41.6	31.9			
155	50.4	44.8	36.7	29.5	25.2	22.8	22.1	23.2	52.9	53.7	51.0	49.0	49.2	46.9	40.4	31.2			
160	50.7	46.4	39.7	33.1	28.3	25.3	23.9	24.1	53.1	54.1	52.4	50.4	49.0	45.3	38.6	30.7			
165	51.1	47.7	41.8	35.8	30.6	27.3	25.2	25.0	53.4	54.2	52.9	50.7	48.4	44.2	37.5	30.4			
170	52.1	49.8	45.3	39.8	34.6	30.6	27.6	26.6	53.8	54.1	52.8	50.2	46.9	42.1	36.1	30.2			
175	52.9	51.4	47.4	42.4	37.3	33.0	29.5	27.8	54.1	53.9	52.3	49.1	45.4	40.3	35.0	30.2			
180	53.6	52.9	50.1	46.1	41.5	36.8	32.3	29.3	53.7	52.8	50.3	46.1	41.6	36.8	32.4	29.3			

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=1.0000]

Remarks: