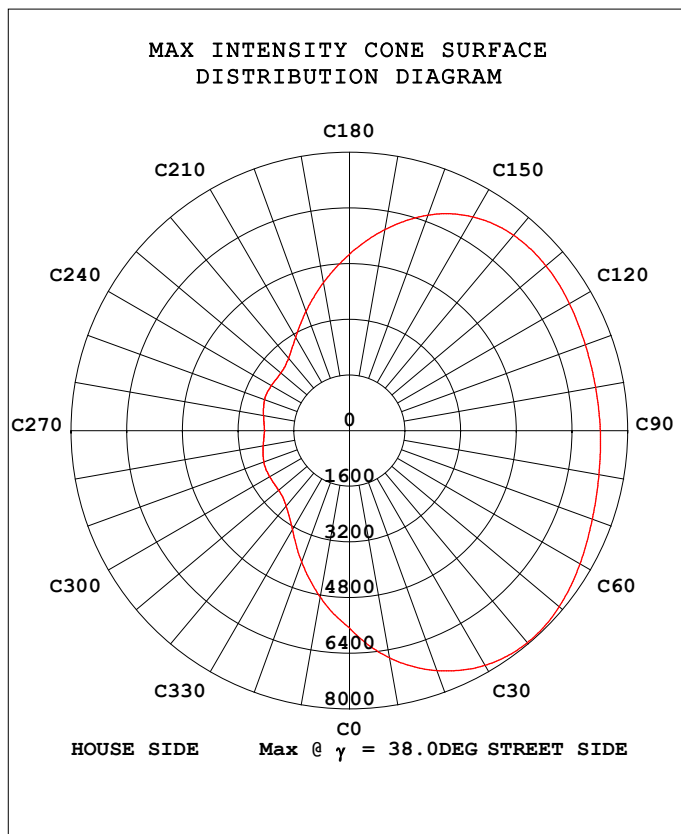
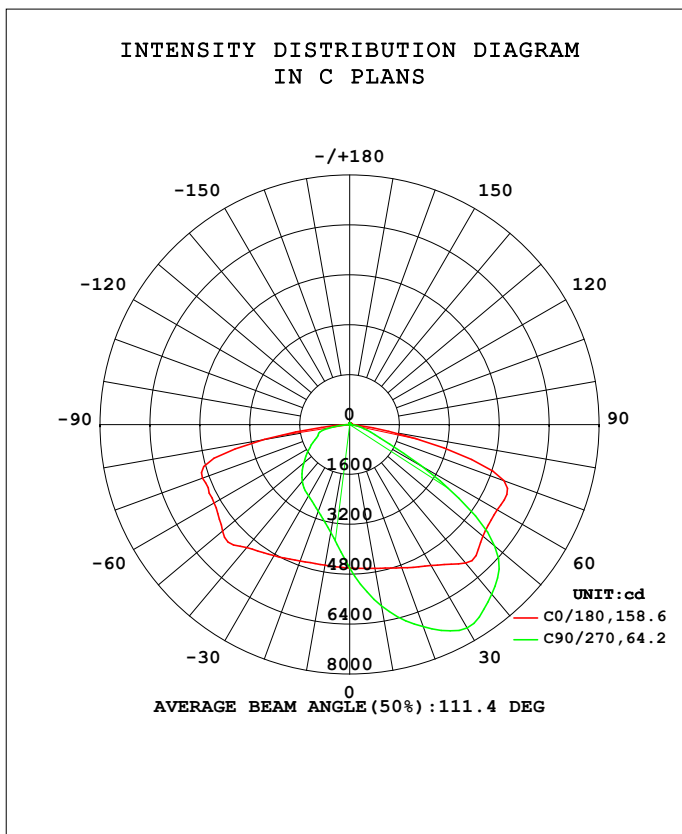


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.77V I:1.2674A P:151.45W PF:0.9977 Freq:60.00Hz		
UTHDi:1.41% ITHDi:3.37% KDisp:0.9994 Lamp Flux:21436.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.55 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-150W-BR-PS-XX	Imax (cd)	7942	η street_up (%)	0.3
NOMINAL POWER (W)	150	LOR (%)	100.0	η street_down (%)	66.3
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	21437	η house_up (%)	0.5
NOMINAL FLUX (lm)	21436.6	MAXIMUM @ (C, γ)	45,38.0	η house_down (%)	32.9
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.2	SLI	23.966



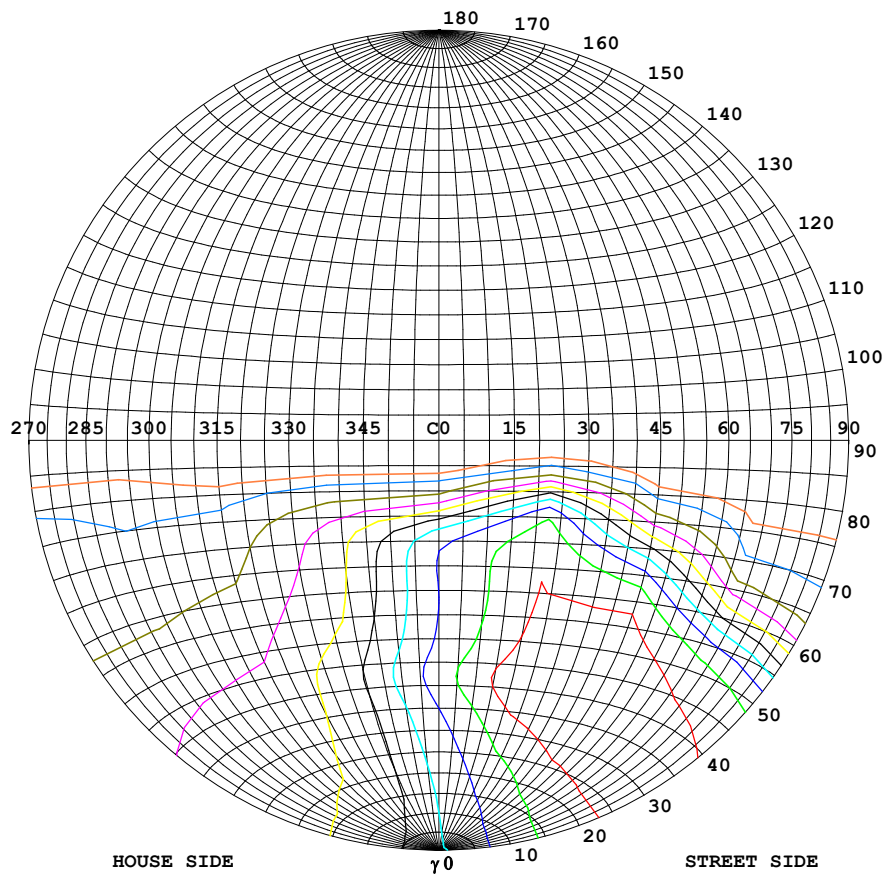
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

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=1.0442]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.77V I:1.2674A P:151.45W PF:0.9977 Freq:60.00Hz UTHDi:1.41% ITHDi:3.37% KDisp:0.9994 Lamp Flux:21436.6x1 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.At80:231.0cd/klm
Max.At90:1.638cd/klm
Max.80-90:231.0cd/klm

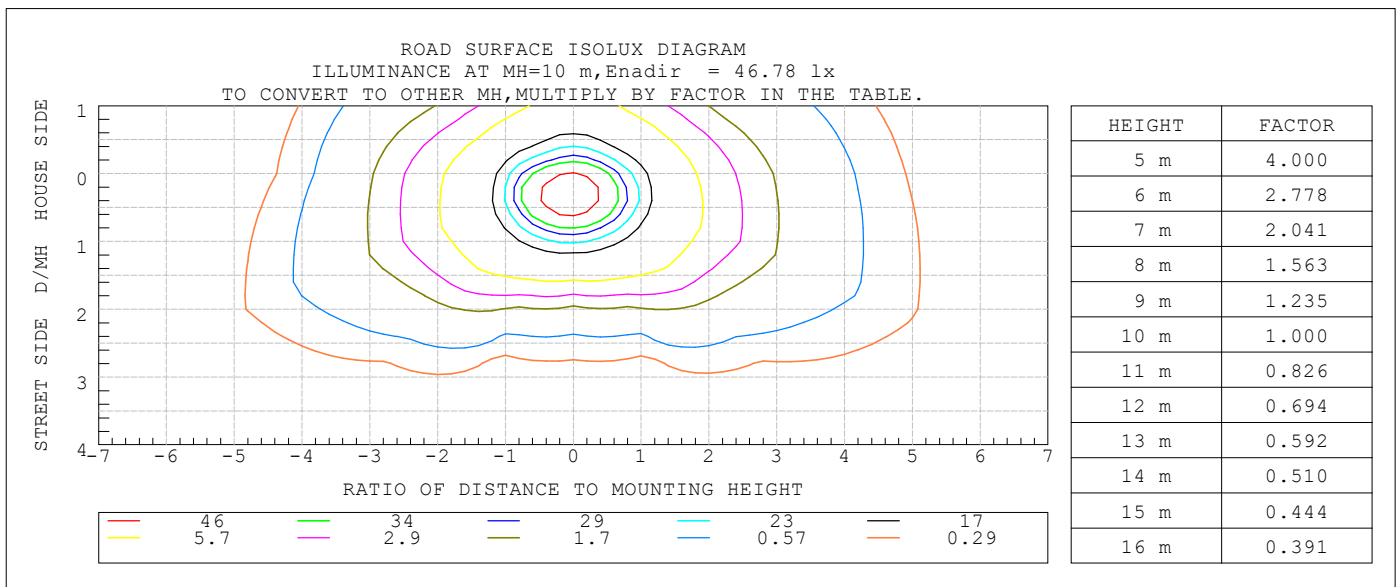
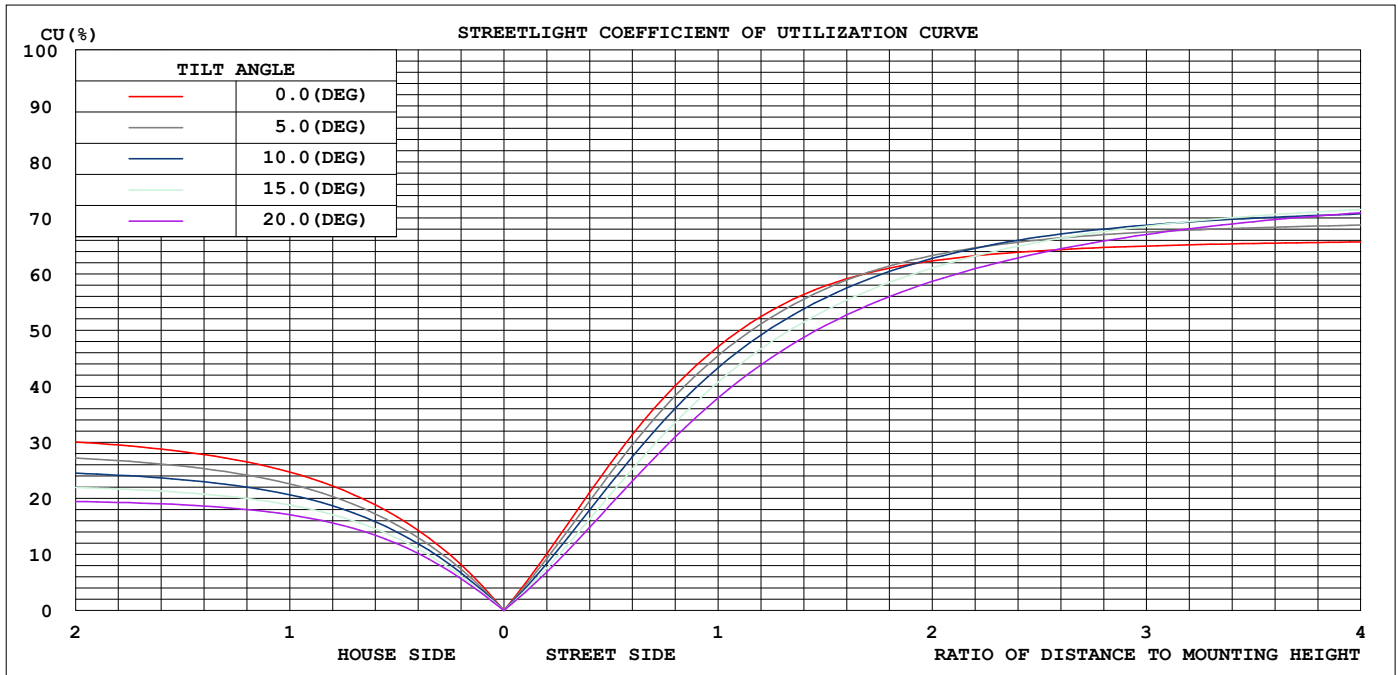
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	7942
90%	7148
80%	6353
70%	5559
60%	4765
50%	3971
40%	3177
30%	2383
20%	1588
10%	794
5%	397

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=1.0442]
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=1.0442]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:119.77V I:1.2674A P:151.45W PF:0.9977 Freq:60.00Hz		
UTHDi:1.41% ITHDi:3.37% KDisp:0.9994 Lamp Flux:21436.6x1 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	4683	5561	5903	5538	4581	3755	3511	3813	0- 10	442.5	442.5	2.06,2.06
20	4888	6454	6898	6339	4655	3207	2960	3303	10- 20	1349	1792	8.36,8.36
30	5222	7394	7530	6976	4855	2860	2643	2960	20- 30	2297	4088	19.1,19.1
40	5796	7899	7095	7389	5151	2561	2369	2654	30- 40	3227	7315	34.1,34.1
50	5571	7442	6076	7133	5317	2245	1925	2323	40- 50	3884	11199	52.2,52.2
60	5471	6779	2644	6639	5022	1785	1478	1800	50- 60	3923	15122	70.5,70.5
70	5270	4058	711.9	3951	5027	1277	1100	1271	60- 70	3325	18447	86.1,86.1
80	1280	610.3	233.2	858.5	2775	679.4	710.8	553.7	70- 80	2302	20749	96.8,96.8
90	17.01	8.499	5.256	20.96	18.89	3.746	2.191	10.79	80- 90	517.9	21267	99.2,99.2
100	28.37	11.58	6.451	6.413	22.02	8.406	5.039	21.88	90-100	11.50	21278	99.3,99.3
110	38.51	17.38	9.918	9.683	32.87	17.18	13.56	31.44	100-110	17.39	21296	99.3,99.3
120	49.01	23.47	14.04	13.38	44.75	26.87	24.70	40.65	110-120	23.95	21320	99.5,99.5
130	53.13	28.12	17.32	16.53	53.10	37.26	35.32	46.65	120-130	28.10	21348	99.6,99.6
140	53.37	32.34	20.33	19.40	56.14	46.35	45.40	47.12	130-140	28.17	21376	99.7,99.7
150	53.60	36.79	24.44	21.98	56.42	52.24	50.96	43.86	140-150	24.91	21401	99.8,99.8
160	53.80	41.80	29.57	24.91	56.64	55.25	51.51	40.54	150-160	19.29	21420	99.9,99.9
170	55.12	47.64	36.16	28.84	57.12	55.67	49.28	37.84	160-170	12.30	21432	100,100
180	56.74	52.77	43.49	33.78	56.79	52.84	43.60	33.85	170-180	4.275	21437	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

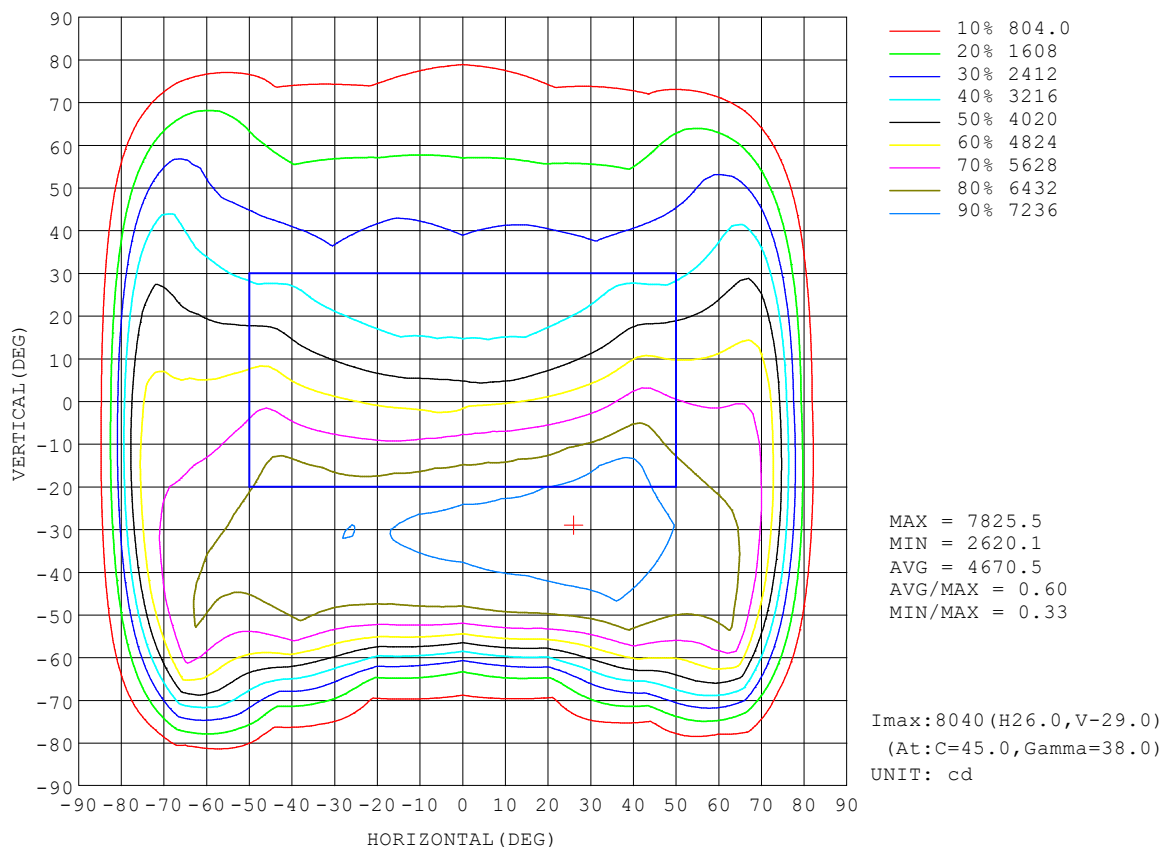
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

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=1.0442]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

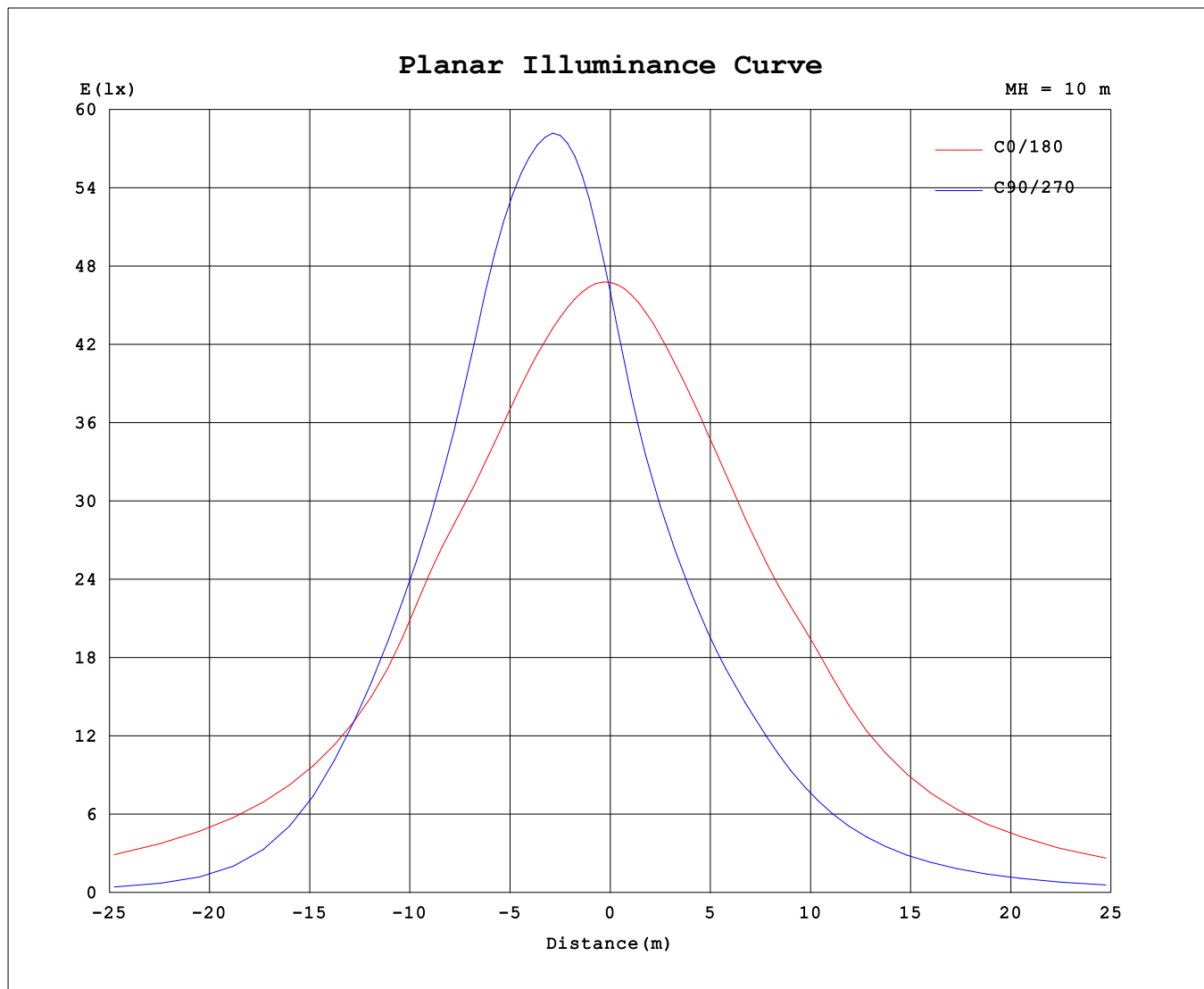
Test:U:119.77V I:1.2674A P:151.45W PF:0.9977 Freq:60.00Hz UTHDi:1.41% ITHDi:3.37% KDisp:0.9994 Lamp Flux:21436.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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=1.0442]
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=1.0442]

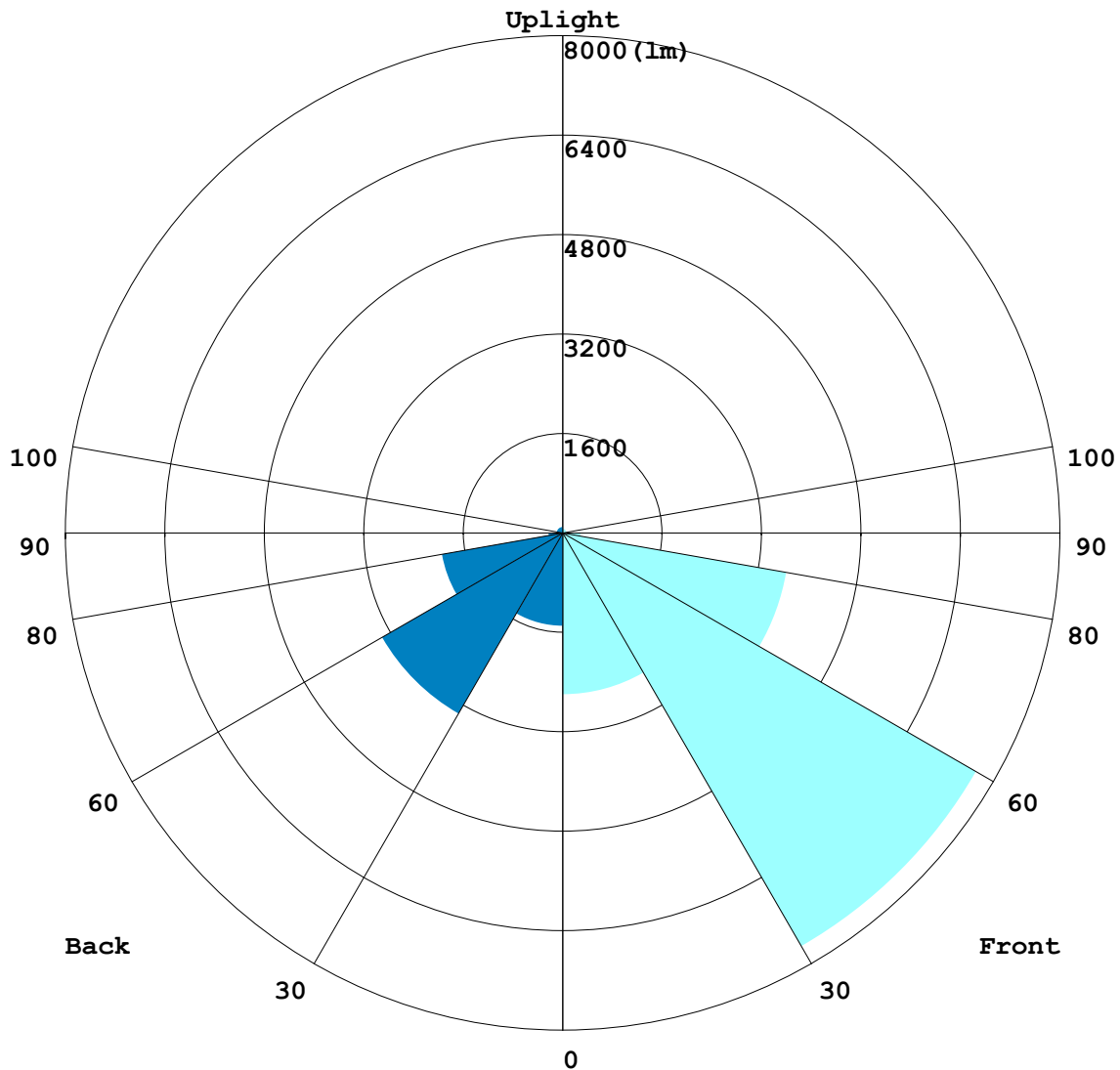
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:119.77V I:1.2674A P:151.45W PF:0.9977 Freq:60.00Hz		
UTHDi:1.41% ITHDi:3.37% KDisp:0.9994 Lamp Flux:21436.6x1 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=1.0442]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:119.77V I:1.2674A P:151.45W PF:0.9977 Freq:60.00Hz UTHDi:1.41% ITHDi:3.37% KDisp:0.9994 Lamp Flux:21436.6x1 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)	2596.1	12.1
FM - Front-Medium(30-60)	7675.6	35.8
FH - Front-High(60-80)	3654.3	17.0
FVH - Front-Very High(80-90)	289.17	1.3
Total Forward Light	14286	66.6

BL - Back-Low(0-30)	1492.1	7.0
BM - Back-Medium(30-60)	3358.1	15.7
BH - Back-High(60-80)	1972.6	9.2
BVH - Back-Very High(80-90)	228.77	1.1
Total Back Light	7151	33.4

UL - Uplight-Low(90-100)	11.5	0.1
UH - Uplight-High(100-180)	158.39	0.7
Total Up Light	169.89	0.8

BUG(Back,Up,Glare) Rating	B3-U3-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	7051.5	99.474	7151
Street Side	14215	70.413	14286

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=1.0442]

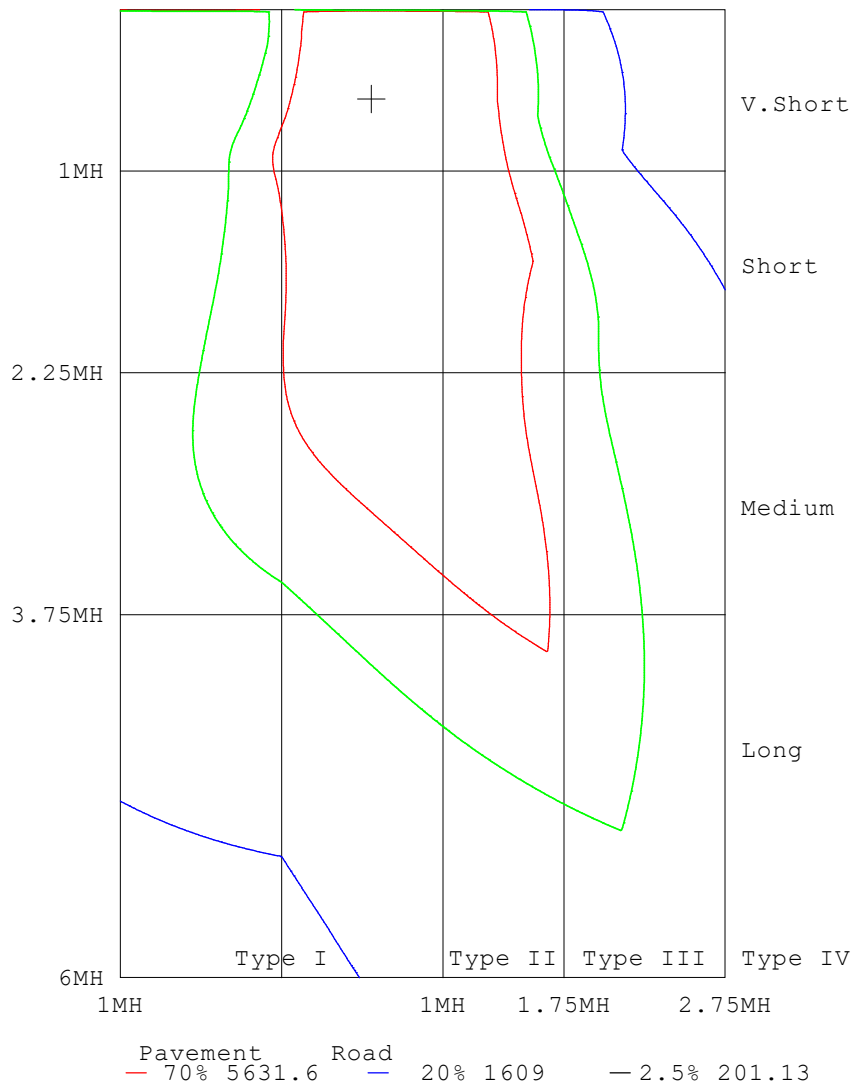
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.77V I:1.2674A P:151.45W PF:0.9977 Freq:60.00Hz UTHDi:1.41% ITHDi:3.37% KDisp:0.9994 Lamp Flux:21436.6x1 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°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=1.0442]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.77V I:1.2674A P:151.45W PF:0.9977 Freq:60.00Hz		
UTHDi:1.41% ITHDi:3.37% KDisp:0.9994 Lamp Flux:21436.6x1 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	4599	4599	4599	4599	4599	4599	4599	4599	4599	4599	4599	4599	4599	4599	4599	4599			
5	4625	4822	4989	5102	5135	5095	4975	4796	4585	4390	4229	4128	4097	4141	4253	4421			
10	4683	5165	5561	5821	5903	5817	5538	5105	4581	4110	3755	3564	3511	3592	3813	4196			
15	4746	5408	5924	6250	6345	6236	5884	5312	4595	3955	3505	3297	3247	3333	3579	4076			
20	4888	5812	6454	6812	6898	6754	6339	5627	4655	3775	3207	3005	2960	3047	3303	3952			
25	5008	6116	6811	7156	7219	7043	6599	5848	4724	3689	3052	2855	2811	2900	3155	3894			
30	5222	6616	7394	7602	7530	7383	6976	6201	4855	3597	2860	2698	2643	2751	2960	3833			
35	5411	7007	7778	7651	7438	7402	7224	6452	4952	3549	2742	2650	2554	2702	2836	3810			
40	5796	7651	7899	7368	7095	7132	7389	6925	5151	3495	2561	2583	2369	2588	2654	3854			
45	5843	7627	7687	7139	6831	6920	7317	7254	5368	3504	2439	2454	2203	2413	2561	3810			
50	5571	7257	7442	6664	6076	6468	7133	7079	5317	3339	2245	2123	1925	2048	2323	3457			
55	5490	7158	7289	5961	4989	5791	7027	6959	5166	3148	2071	1885	1741	1821	2111	3263			
60	5471	7064	6779	3916	2644	3837	6639	6853	5022	2883	1785	1550	1478	1501	1800	3037			
65	5516	7025	5997	2411	1435	2401	5907	6854	5010	2743	1588	1335	1310	1297	1587	2937			
70	5270	6819	4058	884	712	908	3951	6799	5027	2534	1277	1037	1100	1006	1271	2815			
75	4074	6402	2488	522	484	554	2445	6592	4876	2464	1032	847	1038	838	1027	2448			
80	1280	3773	610	242	233	267	858	4952	2775	1733	679	590	711	612	554	1125			
85	249	1076	161	107	110	135	260	2253	924	791	425	429	333	368	200	263			
90	17.0	35.1	8.50	10.2	5.26	12.7	21.0	30.6	18.9	11.8	3.75	3.11	2.19	3.83	10.8	16.9			
95	21.5	15.4	8.43	6.80	5.17	4.78	4.71	6.38	14.4	12.6	4.58	2.65	2.84	6.23	15.2	15.9			
100	28.4	20.5	11.6	7.07	6.45	6.29	6.41	8.64	22.0	18.4	8.41	4.43	5.04	11.6	21.9	20.4			
105	32.4	23.7	13.7	8.47	7.65	7.39	7.62	9.99	26.6	22.2	11.7	6.71	7.69	16.2	25.8	22.8			
110	38.5	28.7	17.4	11.0	9.92	9.45	9.68	12.2	32.9	28.1	17.2	11.8	13.6	23.1	31.4	27.0			
115	43.0	32.3	19.9	12.7	11.7	11.0	11.2	13.8	37.4	32.5	21.0	15.8	18.1	27.5	35.2	30.4			
120	49.0	37.2	23.5	15.4	14.0	13.3	13.4	16.3	44.8	39.2	26.9	22.1	24.7	33.8	40.7	34.5			
125	51.7	39.9	25.5	17.1	15.4	14.7	14.7	17.8	48.7	43.4	30.9	26.4	29.0	37.8	43.5	36.1			
130	53.1	42.1	28.1	19.5	17.3	16.5	16.5	19.3	53.1	48.6	37.3	33.1	35.3	43.2	46.6	36.9			
135	53.2	42.9	29.8	21.1	18.5	17.6	17.7	20.2	54.9	51.4	41.2	37.4	39.6	46.2	47.6	36.8			
140	53.4	44.1	32.3	23.7	20.3	19.2	19.4	21.5	56.1	54.5	46.3	43.3	45.4	49.4	47.1	36.0			
145	53.5	45.1	34.0	25.6	21.8	20.4	20.4	22.4	56.3	55.7	49.1	46.4	48.3	50.3	46.0	35.0			
150	53.6	46.5	36.8	28.8	24.4	22.4	22.0	23.6	56.4	56.7	52.2	49.8	51.0	50.1	43.9	33.6			
155	53.7	47.4	38.7	30.9	26.4	23.8	23.1	24.2	56.4	57.0	53.8	51.5	51.6	49.3	42.5	32.8			
160	53.8	49.1	41.8	34.6	29.6	26.4	24.9	25.2	56.6	57.3	55.3	53.1	51.5	47.7	40.5	32.2			
165	54.2	50.3	44.0	37.5	32.0	28.5	26.3	26.0	56.8	57.4	55.7	53.4	50.9	46.4	39.4	31.9			
170	55.1	52.5	47.6	41.7	36.2	31.9	28.8	27.7	57.1	57.3	55.7	52.9	49.3	44.2	37.8	31.6			
175	55.9	54.1	49.9	44.5	39.0	34.4	30.8	28.9	57.3	57.0	55.0	51.8	47.6	42.3	36.6	31.5			
180	56.7	55.8	52.8	48.4	43.5	38.5	33.8	30.5	56.8	55.8	52.8	48.5	43.6	38.5	33.8	30.6			

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=1.0442]

Remarks: