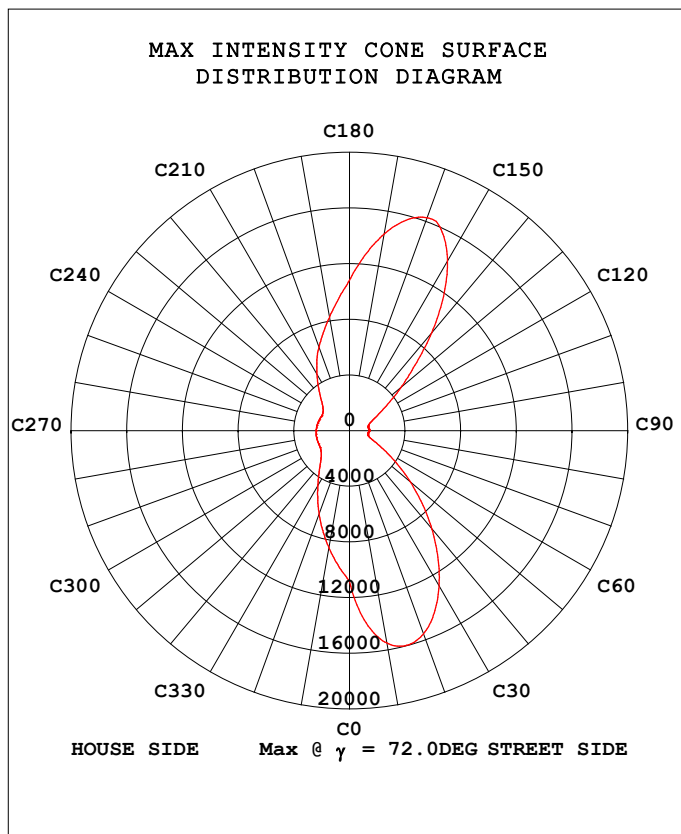
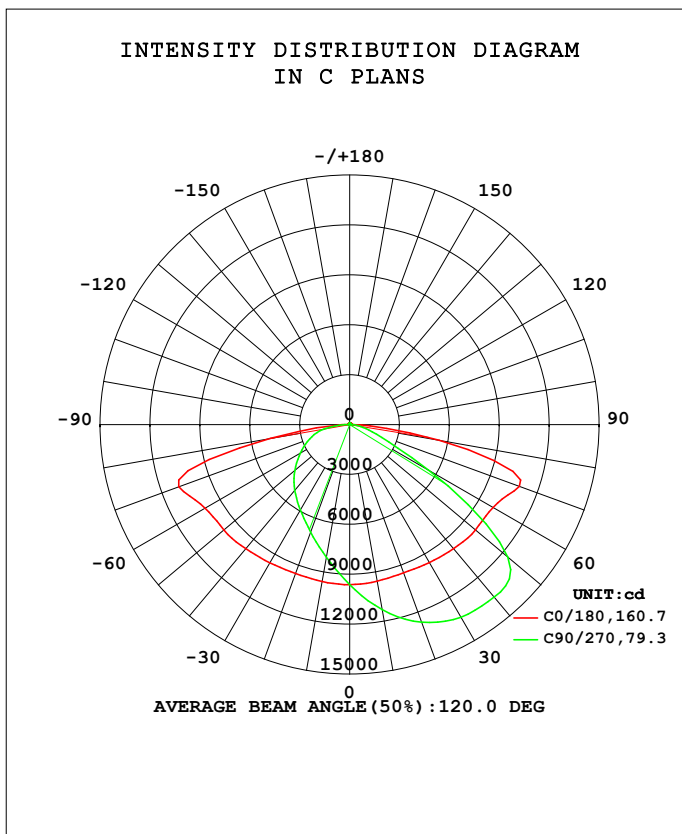


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.50V I:2.6105A P:310.07W PF:0.9940 Freq:60.00Hz		
UTHDi:2.03% ITHDi:8.02% KDisp:0.9981 Lamp Flux:43931.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.68 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-PS-XX	Imax (cd)	16290	$\eta$ street_up (%)	0.4
NOMINAL POWER (W)	300	LOR (%)	100.0	$\eta$ street_down (%)	64.0
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	43932	$\eta$ house_up (%)	0.5
NOMINAL FLUX (lm)	43931.5	MAXIMUM @ (C, $\gamma$ )	158,72.0	$\eta$ house_down (%)	35.1
LAMPS INSIDE	1	$\eta$ up (%)	0.9	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	$\eta$ down (%)	99.1	SLI	25.715



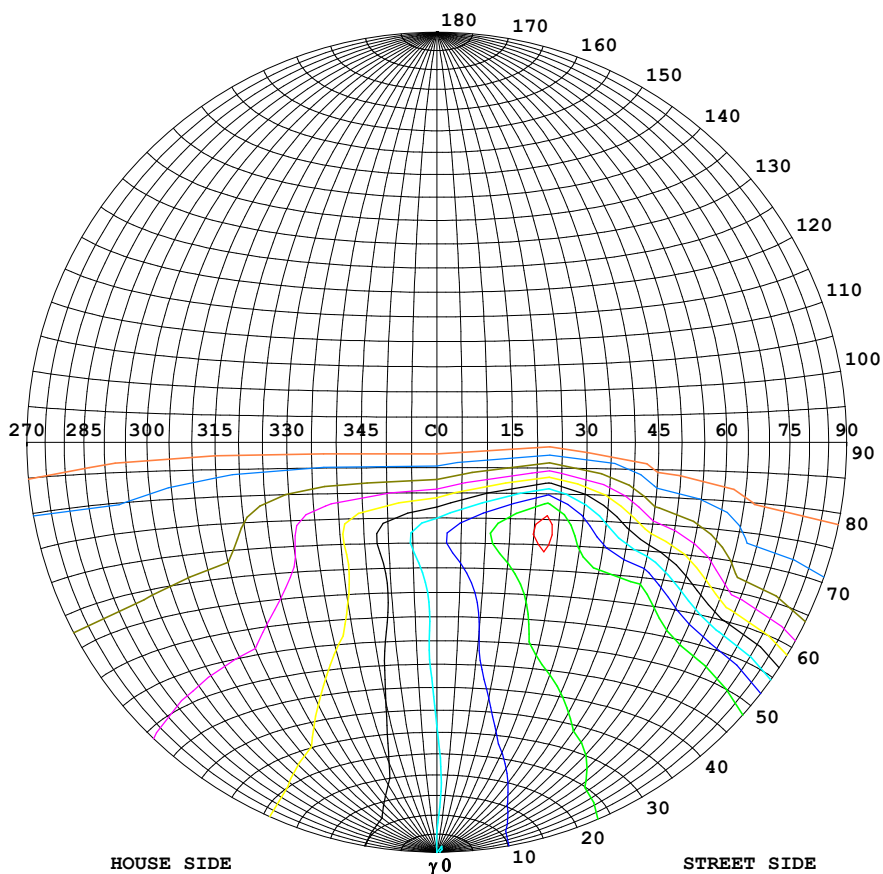
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3 °C  
 Operators: DAMIN  
 Test Date: 21 June 2025

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:119.50V I:2.6105A P:310.07W PF:0.9940 Freq:60.00Hz		
UTHDi:2.03% ITHDi:8.02% KDisp:0.9981 Lamp Flux:43931.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type III - Medium  
CIE:Broad - Long  
IES:None cut-off  
CIE:Non-cut-off  
Max.At80:253.9cd/klm  
Max.At90:13.02cd/klm  
Max.80-90:253.9cd/klm

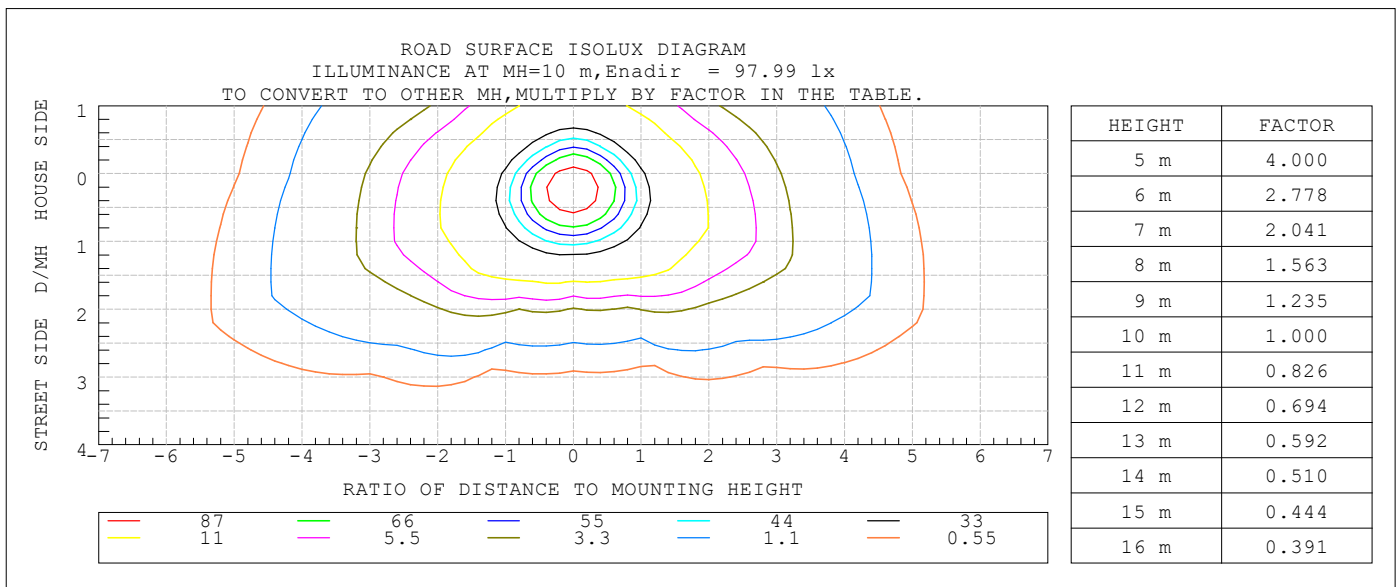
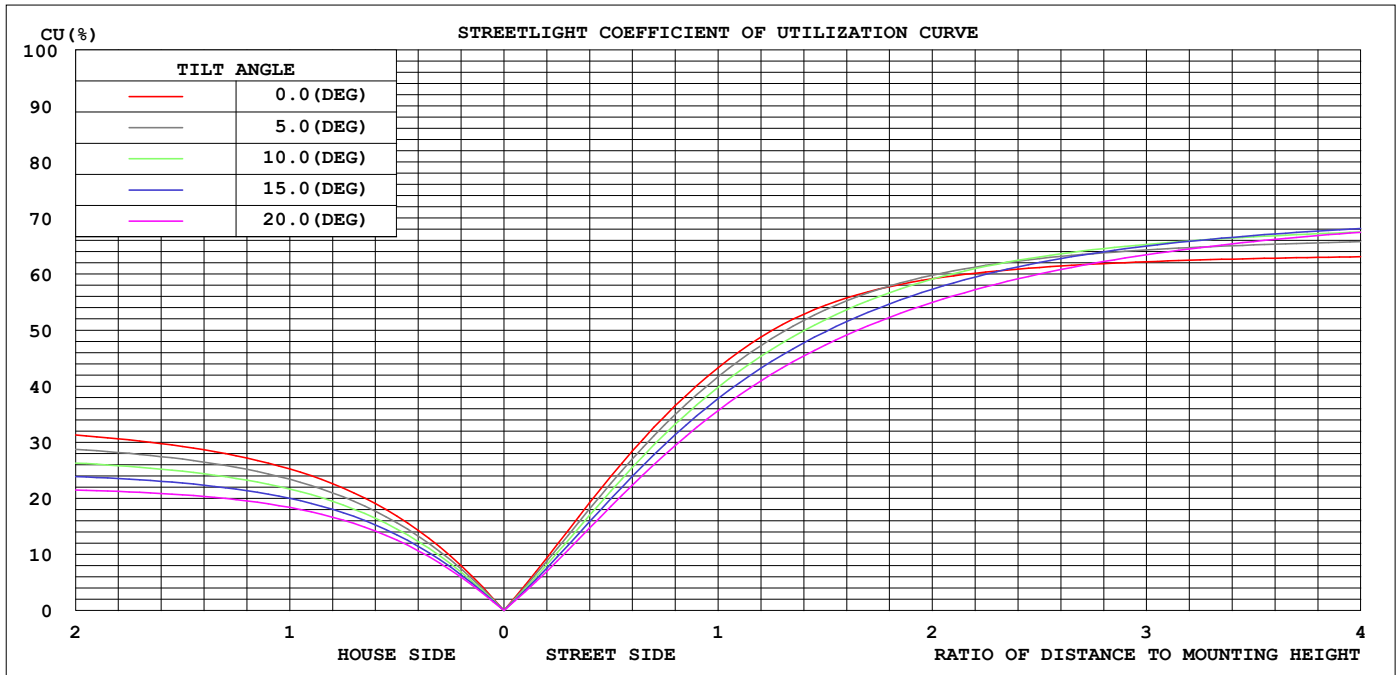
ISOCANDELA DIAGRAM		
UNIT		cd
I <sub>max</sub> =100%		16290
90%		14661
80%		13032
70%		11403
60%		9774
50%		8145
40%		6516
30%		4887
20%		3258
10%		1629
5%		815

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:21 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: 21 June 2025

$\gamma$  Range: 0 - 180DEG

$\gamma$  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:119.50V I:2.6105A P:310.07W PF:0.9940 Freq:60.00Hz UTHDi:2.03% ITHDi:8.02% KDisp:0.9981 Lamp Flux:43931.5x1 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	955.5	1078	1130	1079	957.9	848.4	809.8	849.0	0- 10	919.1	919.1	2.09,2.09
20	949.1	1182	1264	1187	953.0	746.5	687.9	748.1	10- 20	2734	3653	8.31,8.31
30	958.0	1269	1337	1276	959.7	661.6	593.6	666.6	20- 30	4468	8121	18.5,18.5
40	973.2	1345	1353	1355	973.8	582.9	514.9	592.6	30- 40	6058	14179	32.3,32.3
50	986.7	1405	1241	1422	986.8	496.3	430.8	510.0	40- 50	7396	21574	49.1,49.1
60	996.8	1423	548.1	1406	1005	397.8	342.9	413.3	50- 60	7874	29448	67,67
70	1086	896.7	173.0	815.5	1093	297.4	257.0	310.8	60- 70	7044	36492	83.1,83.1
80	547.3	225.6	67.30	184.7	485.4	202.4	156.9	211.5	70- 80	5462	41955	95.5,95.5
90	16.93	9.003	7.433	10.50	5.346	2.301	3.148	37.77	80- 90	1587	43542	99.1,99.1
100	7.602	3.629	2.244	2.428	6.968	3.307	1.995	6.434	90-100	51.83	43594	99.2,99.2
110	9.224	4.698	2.946	3.086	8.645	5.196	4.016	8.177	100-110	51.01	43645	99.3,99.3
120	10.28	5.584	3.588	3.634	9.896	6.569	6.069	9.125	110-120	59.99	43705	99.5,99.5
130	10.04	6.058	4.109	4.049	10.17	7.918	7.379	9.363	120-130	61.56	43766	99.6,99.6
140	9.566	6.518	4.627	4.403	9.756	8.926	8.452	8.570	130-140	56.07	43822	99.8,99.8
150	9.225	7.012	5.193	4.717	9.309	9.279	8.805	7.584	140-150	46.48	43869	99.9,99.9
160	9.014	7.577	5.844	5.091	9.047	9.204	8.478	6.893	150-160	34.28	43903	99.9,99.9
170	9.047	8.252	6.613	5.592	9.100	9.165	8.086	6.615	160-170	21.21	43924	100,100
180	9.106	8.806	7.409	6.138	9.133	8.831	7.435	6.154	170-180	7.293	43932	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

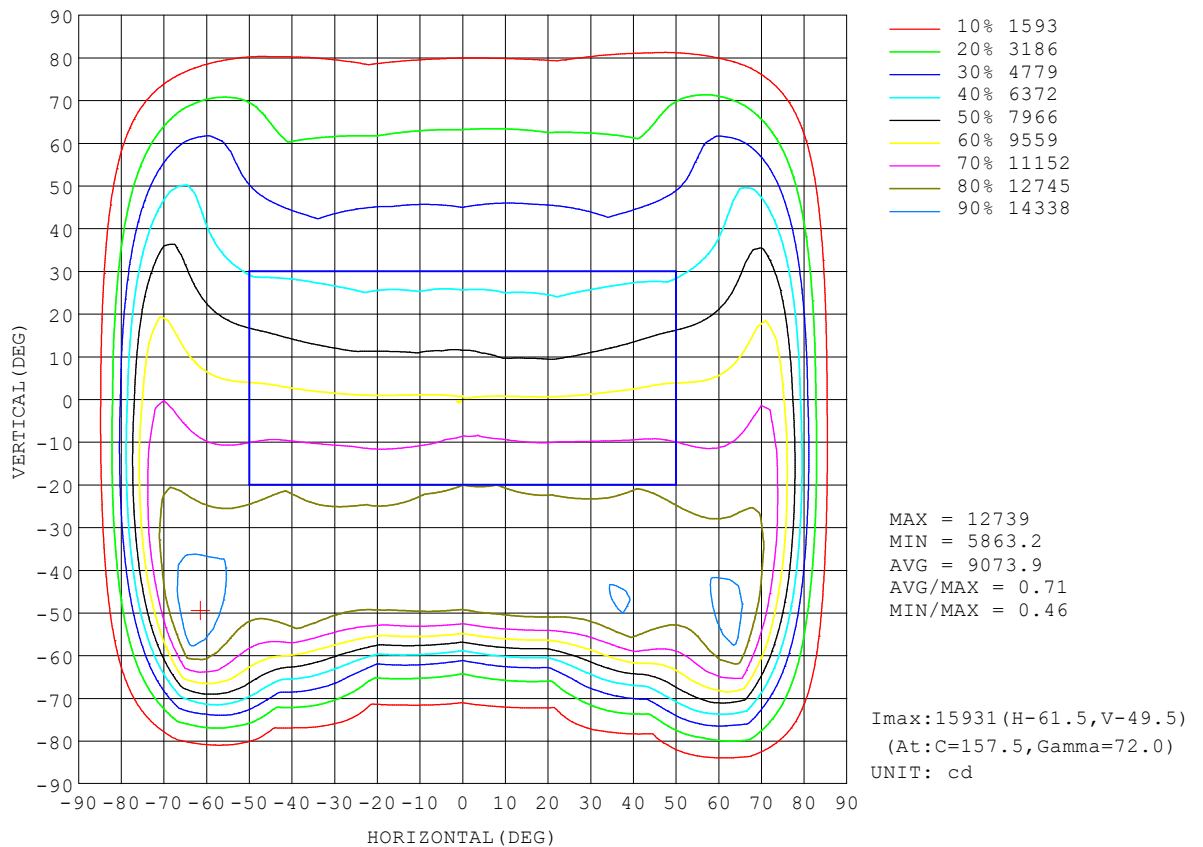
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:21 June 2025

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

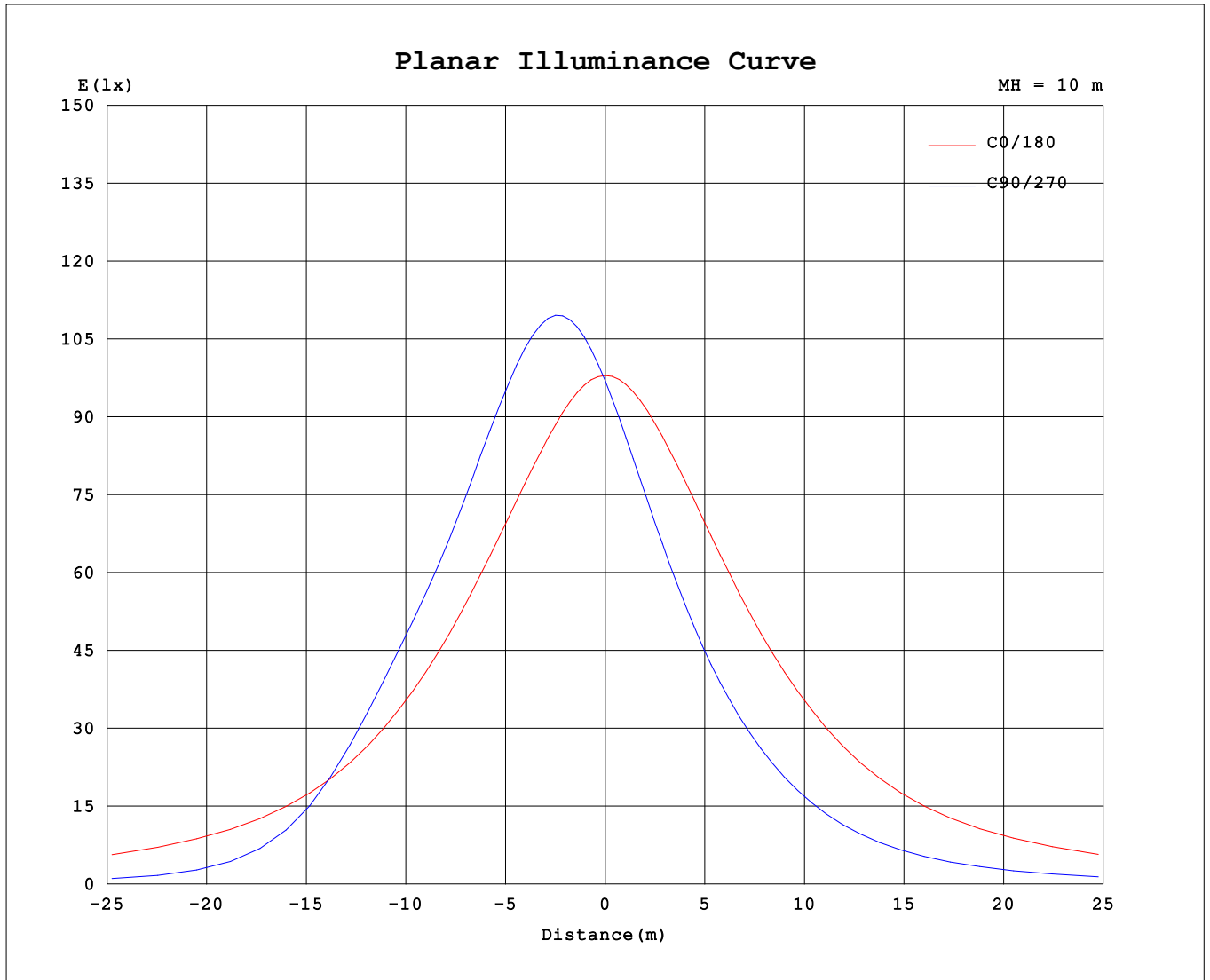
Test:U:119.50V I:2.6105A P:310.07W PF:0.9940 Freq:60.00Hz UTHDi:2.03% ITHDi:8.02% KDisp:0.9981 Lamp Flux:43931.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:21 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: 21 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]

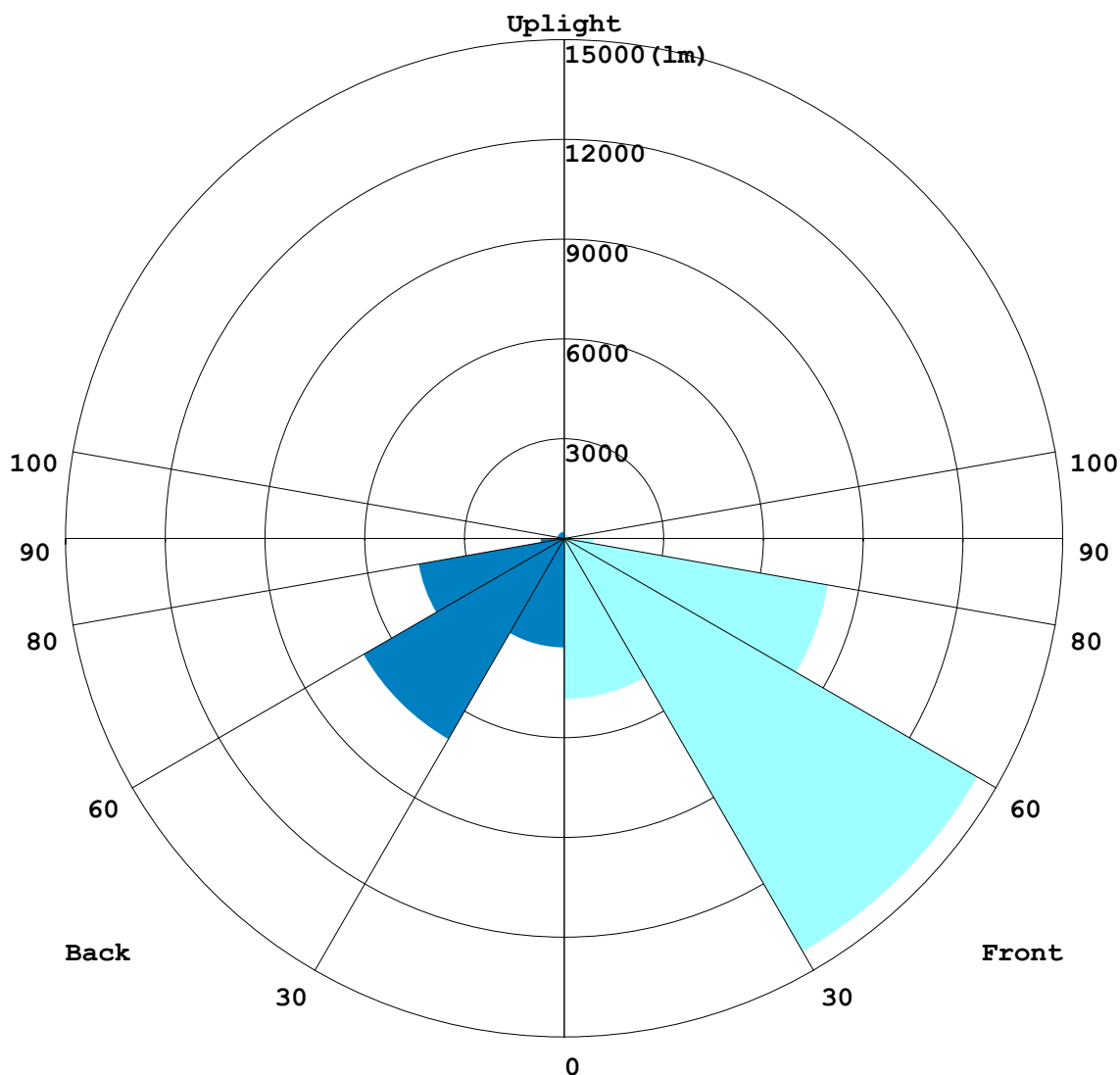
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LCS REPORT

Test:U:119.50V I:2.6105A P:310.07W PF:0.9940 Freq:60.00Hz		
UTHDi:2.03% ITHDi:8.02% KDisp:0.9981 Lamp Flux:43931.5x1 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:21 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:119.50V I:2.6105A P:310.07W PF:0.9940 Freq:60.00Hz UTHDi:2.03% ITHDi:8.02% KDisp:0.9981 Lamp Flux:43931.5x1 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)	4833	11.0
FM - Front-Medium(30-60)	14353	32.7
FH - Front-High(60-80)	8060.4	18.3
FVH - Front-Very High(80-90)	884.03	2.0
Total Forward Light	28297	64.4

BL - Back-Low(0-30)	3287.6	7.5
BM - Back-Medium(30-60)	6974.9	15.9
BH - Back-High(60-80)	4445.8	10.1
BVH - Back-Very High(80-90)	703.05	1.6
Total Back Light	15635	35.6

UL - Uplight-Low(90-100)	51.833	0.1
UH - Uplight-High(100-180)	337.9	0.8
Total Up Light	389.73	0.9

BUG(Back,Up,Glare) Rating	B4-U3-G5
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	15411	223.37	15635
Street Side	28130	166.36	28297

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:21 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:

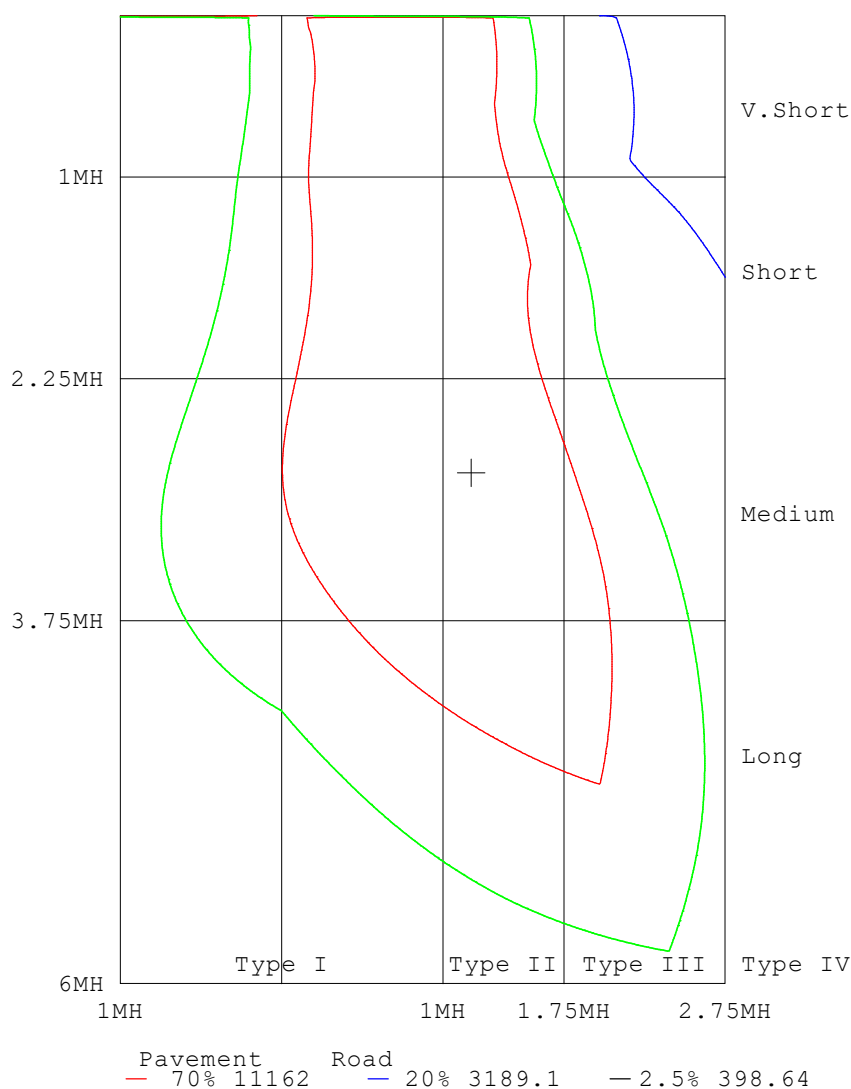


# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ROAD ISOCANDELA REPORT

Test:U:119.50V I:2.6105A P:310.07W PF:0.9940 Freq:60.00Hz UTHDi:2.03% ITHDi:8.02% KDisp:0.9981 Lamp Flux:43931.5x1 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:21 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:119.50V I:2.6105A P:310.07W PF:0.9940 Freq:60.00Hz		
UTHDi:2.03% ITHDi:8.02% KDisp:0.9981 Lamp Flux:43931.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: X10cd

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	962	962	962	962	962	962	962	962	962	962	962	962	962	962	962	962			
5	961	986	1009	1025	1030	1024	1009	987	962	937	916	902	898	902	916	936			
10	956	1020	1078	1118	1130	1115	1079	1023	958	898	848	818	810	819	849	896			
15	951	1043	1122	1176	1190	1172	1124	1047	955	871	806	768	758	769	806	869			
20	949	1078	1182	1248	1264	1241	1187	1086	953	834	746	700	688	701	748	832			
25	951	1105	1218	1285	1301	1277	1224	1114	954	811	711	659	647	662	713	809			
30	958	1149	1269	1327	1337	1317	1276	1161	960	779	662	607	594	611	667	779			
35	964	1179	1301	1345	1347	1333	1310	1194	965	758	630	576	562	581	637	759			
40	973	1227	1345	1359	1353	1346	1355	1249	974	726	583	533	515	540	593	730			
45	981	1261	1368	1370	1349	1354	1378	1288	982	705	549	503	482	511	561	711			
50	987	1296	1405	1351	1241	1317	1422	1323	987	669	496	449	431	459	510	676			
55	986	1310	1436	1232	1015	1173	1455	1346	988	641	458	412	396	421	473	648			
60	997	1343	1423	818	548	757	1406	1405	1005	606	398	351	343	361	413	609			
65	1022	1384	1289	510	325	465	1225	1475	1034	593	357	311	309	322	372	589			
70	1086	1482	897	241	173	221	816	1609	1093	600	297	251	257	261	311	587			
75	1021	1506	592	148	121	138	521	1601	1011	588	261	210	223	221	272	588			
80	547	1115	226	78.3	67.3	72.1	185	984	485	374	202	150	157	160	212	400			
85	226	534	90.6	46.3	38.1	41.5	81.3	358	202	179	143	107	93.7	116	158	210			
90	16.9	57.2	9.00	7.41	7.43	4.46	10.5	3.56	5.35	16.4	2.30	25.7	3.15	14.5	37.8	15.7			
95	6.15	4.56	2.93	2.03	1.82	1.84	2.03	2.66	5.47	4.74	2.15	1.27	1.29	2.38	4.85	5.08			
100	7.60	5.69	3.63	2.52	2.24	2.24	2.43	3.14	6.97	6.12	3.31	1.92	2.00	3.67	6.43	6.33			
105	8.37	6.28	4.06	2.84	2.52	2.50	2.69	3.38	7.75	6.77	4.11	2.58	2.70	4.65	7.28	6.75			
110	9.22	7.00	4.70	3.31	2.95	2.89	3.09	3.71	8.64	7.60	5.20	3.80	4.02	6.13	8.18	7.10			
115	9.72	7.44	5.11	3.63	3.22	3.16	3.33	3.93	9.19	8.18	5.80	4.60	4.93	6.96	8.64	7.35			
120	10.3	8.00	5.58	4.04	3.59	3.52	3.63	4.18	9.90	9.00	6.57	5.65	6.07	7.89	9.12	7.74			
125	10.3	8.19	5.79	4.29	3.81	3.72	3.81	4.30	10.2	9.42	7.09	6.23	6.65	8.29	9.30	7.80			
130	10.0	8.21	6.06	4.64	4.11	3.96	4.05	4.45	10.2	9.81	7.92	7.03	7.38	8.69	9.36	7.62			
135	9.82	8.19	6.24	4.87	4.30	4.12	4.21	4.55	10.0	9.94	8.40	7.57	7.84	8.87	9.15	7.38			
140	9.57	8.21	6.52	5.24	4.63	4.39	4.40	4.68	9.76	9.97	8.93	8.28	8.45	8.98	8.57	6.95			
145	9.42	8.25	6.71	5.51	4.86	4.58	4.53	4.76	9.58	9.90	9.13	8.60	8.72	8.89	8.14	6.68			
150	9.23	8.30	7.01	5.91	5.19	4.85	4.72	4.87	9.31	9.69	9.28	8.83	8.81	8.52	7.58	6.27			
155	9.11	8.36	7.23	6.18	5.43	5.04	4.86	4.94	9.16	9.53	9.27	8.86	8.71	8.20	7.27	6.08			
160	9.01	8.47	7.58	6.63	5.84	5.37	5.09	5.06	9.05	9.35	9.20	8.79	8.48	7.77	6.89	5.89			
165	9.00	8.59	7.83	6.94	6.15	5.62	5.26	5.18	9.04	9.31	9.17	8.73	8.30	7.57	6.74	5.85			
170	9.05	8.85	8.25	7.40	6.61	6.01	5.59	5.39	9.10	9.30	9.17	8.65	8.09	7.33	6.61	5.86			
175	9.11	9.00	8.49	7.71	6.94	6.30	5.83	5.57	9.15	9.27	9.08	8.49	7.89	7.13	6.47	5.83			
180	9.11	9.16	8.81	8.14	7.41	6.72	6.14	5.73	9.13	9.14	8.83	8.13	7.44	6.72	6.15	5.71			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:21 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: