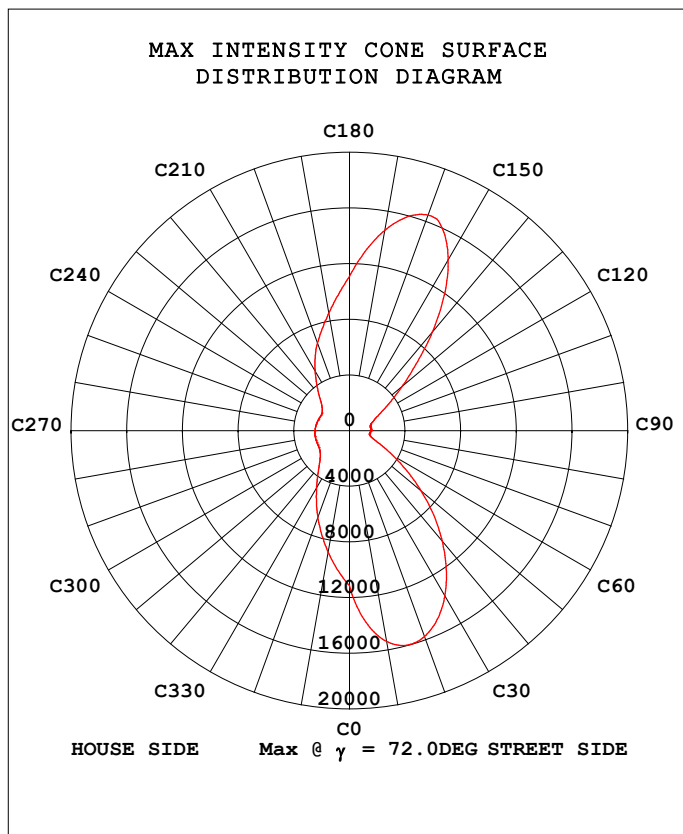
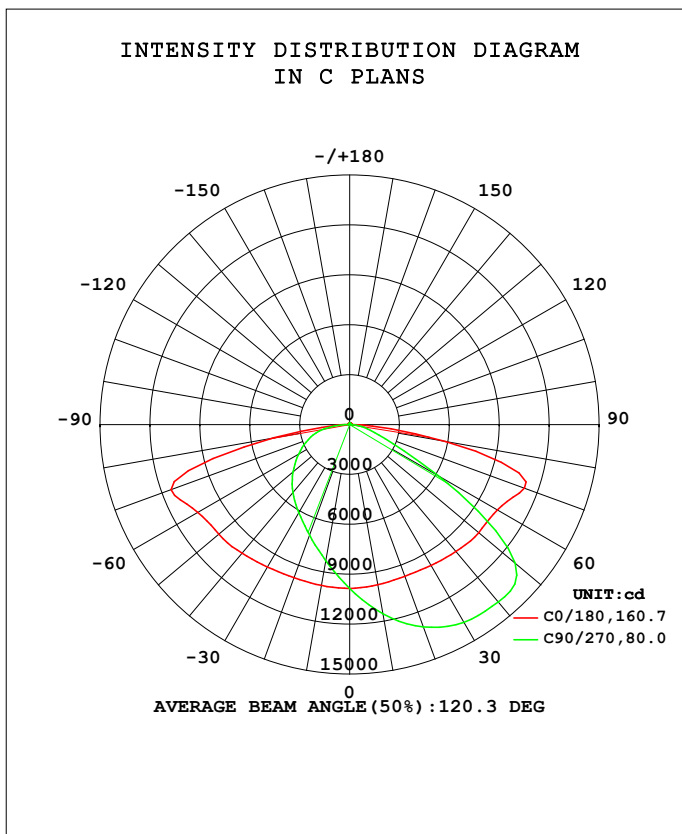


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.48V I:2.5047A P:297.37W PF:0.9937 Freq:60.00Hz		
UTHDi:1.95% ITHDi:8.44% KDisp:0.9979 Lamp Flux:45406.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.69 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-PS-XX	Imax (cd)	16457	$\eta$ street_up (%)	0.4
NOMINAL POWER (W)	300	LOR (%)	100.0	$\eta$ street_down (%)	64.2
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	45406	$\eta$ house_up (%)	0.5
NOMINAL FLUX (lm)	45406.5	MAXIMUM @ (C, $\gamma$ )	158,72.0	$\eta$ house_down (%)	34.9
LAMPS INSIDE	1	$\eta$ up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	$\eta$ down (%)	99.2	SLI	25.787



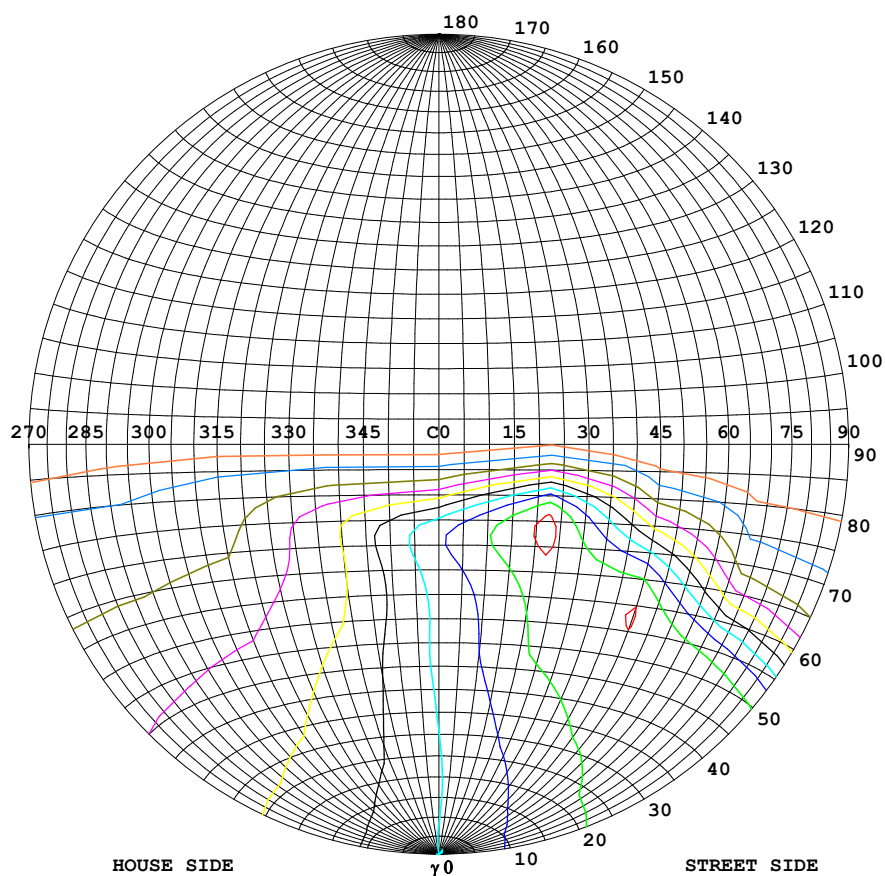
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
Temperature: 25.3 °C  
Operators: DAMIN  
Test Date: 21 June 2025

$\gamma$  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:119.48V I:2.5047A P:297.37W PF:0.9937 Freq:60.00Hz UTHDi:1.95% ITHDi:8.44% KDisp:0.9979 Lamp Flux:45406.5x1 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.At80:264.3cd/klm  
Max.At90:16.95cd/klm  
Max.80-90:264.3cd/klm

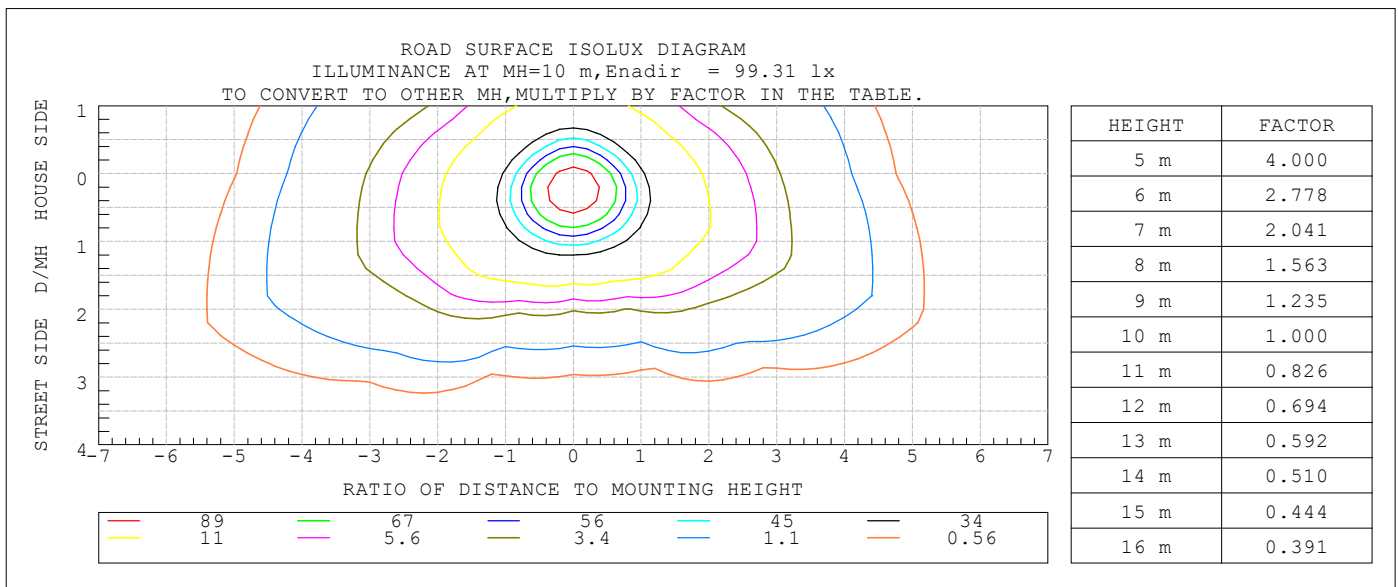
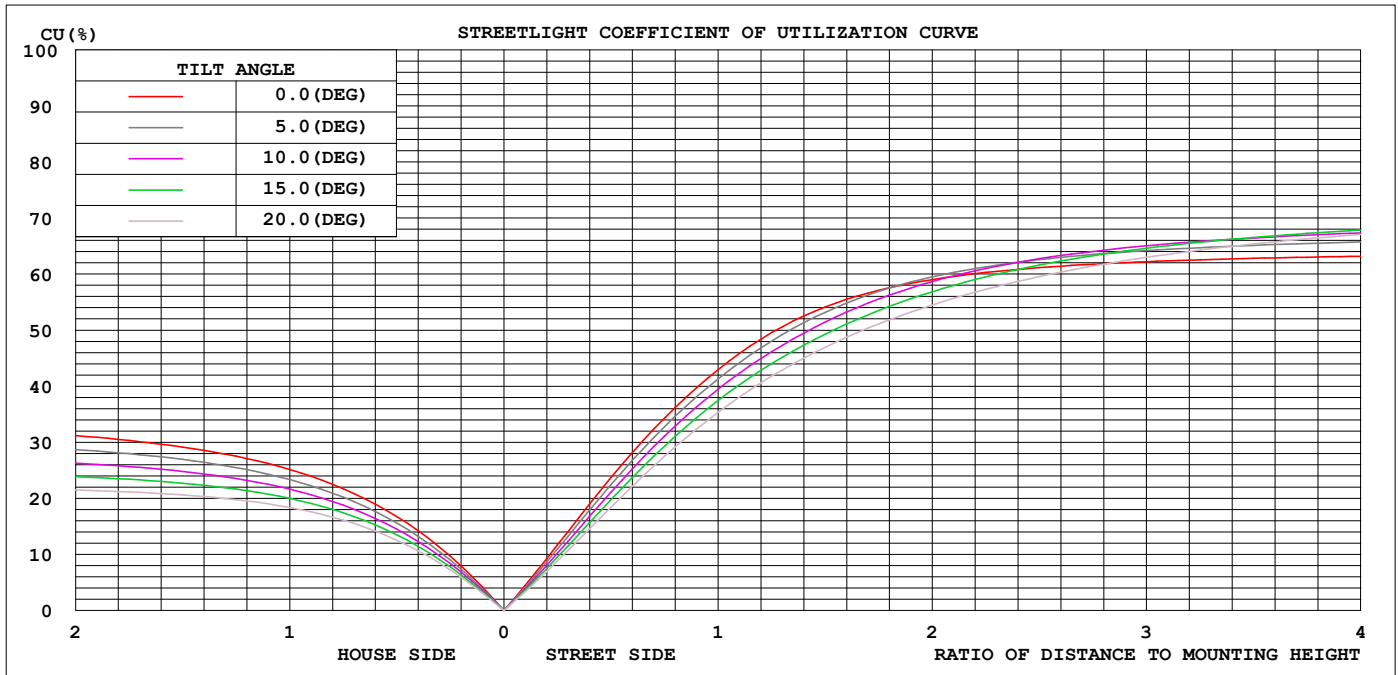
ISOCANDELA DIAGRAM		
UNIT		cd
Imax=100%		16457
90%		14812
80%		13166
70%		11520
60%		9874
50%		8229
40%		6583
30%		4937
20%		3291
10%		1646
5%		823

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
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: MEDIUM  
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:119.48V I:2.5047A P:297.37W PF:0.9937 Freq:60.00Hz		
UTHDi:1.95% ITHDi:8.44% KDisp:0.9979 Lamp Flux:45406.5x1 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	977.4	1103	1155	1103	982.0	870.7	830.8	870.2	0- 10	940.8	940.8	2.07,2.07
20	970.4	1210	1294	1211	979.8	768.6	707.9	768.2	10- 20	2800	3741	8.24,8.24
30	978.0	1300	1373	1300	989.4	682.8	612.7	684.8	20- 30	4582	8323	18.3,18.3
40	994.8	1381	1391	1378	1009	602.2	532.4	609.7	30- 40	6219	14542	32,32
50	1012	1444	1298	1446	1026	513.1	445.1	526.0	40- 50	7607	22149	48.8,48.8
60	1026	1487	613.1	1415	1055	411.4	354.4	426.9	50- 60	8164	30313	66.8,66.8
70	1119	1013	190.0	823.7	1143	308.4	265.7	321.8	60- 70	7356	37670	83,83
80	587.0	285.3	73.69	187.0	463.3	205.1	158.3	219.4	70- 80	5672	43341	95.5,95.5
90	20.50	12.58	8.594	9.976	5.205	1.785	0.7947	39.98	80- 90	1685	45026	99.2,99.2
100	7.392	3.347	1.936	2.148	6.927	3.300	1.807	6.123	90-100	49.76	45076	99.3,99.3
110	9.109	4.462	2.663	2.826	8.631	5.219	3.930	7.932	100-110	49.11	45125	99.4,99.4
120	10.19	5.414	3.335	3.393	9.871	6.618	6.004	8.928	110-120	58.56	45184	99.5,99.5
130	9.990	5.917	3.877	3.824	10.09	8.005	7.322	9.191	120-130	60.46	45244	99.6,99.6
140	9.491	6.377	4.403	4.186	9.655	8.969	8.404	8.406	130-140	55.12	45299	99.8,99.8
150	9.133	6.871	4.982	4.503	9.190	9.259	8.714	7.412	140-150	45.61	45345	99.9,99.9
160	8.897	7.437	5.644	4.885	8.914	9.135	8.353	6.711	150-160	33.56	45379	99.9,99.9
170	8.921	8.124	6.427	5.401	8.959	9.078	7.940	6.433	160-170	20.75	45399	100,100
180	8.985	8.707	7.244	5.959	8.988	8.713	7.259	5.967	170-180	7.134	45406	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

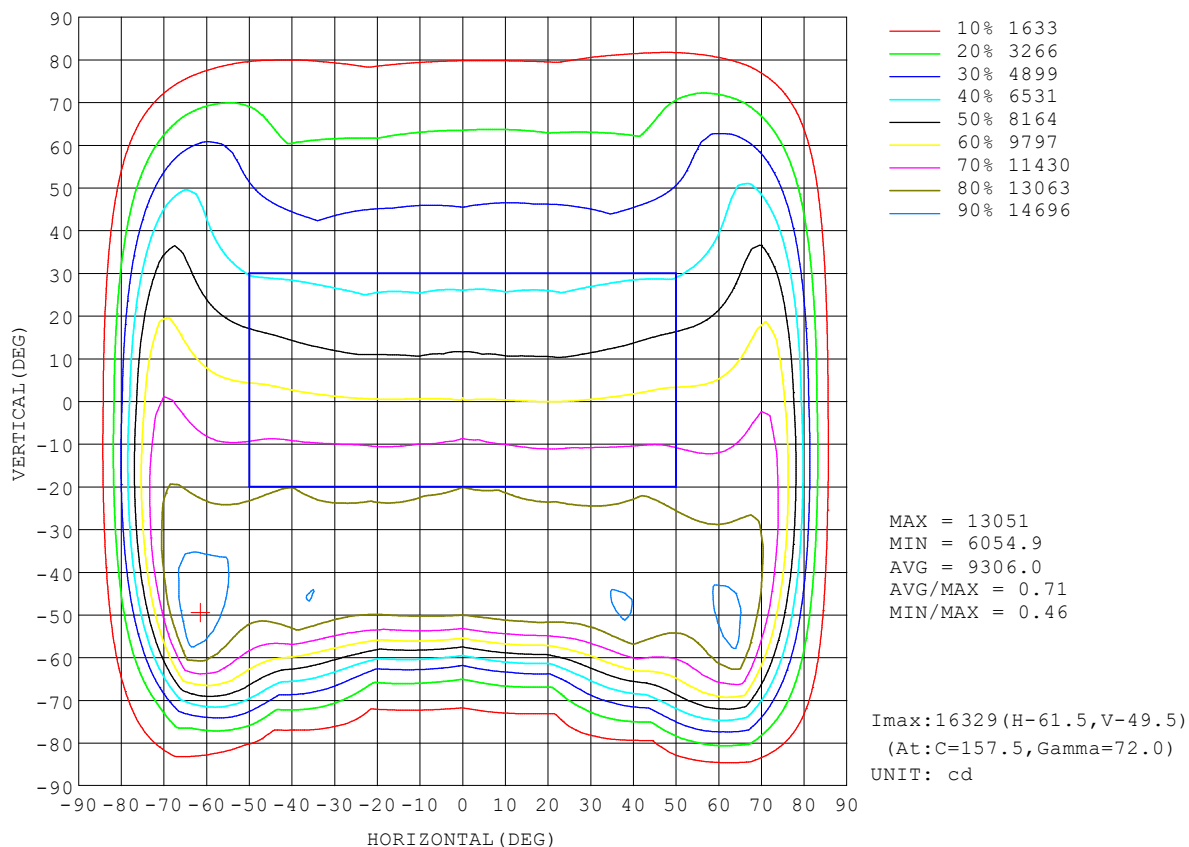
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: MEDIUM  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:21 June 2025

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

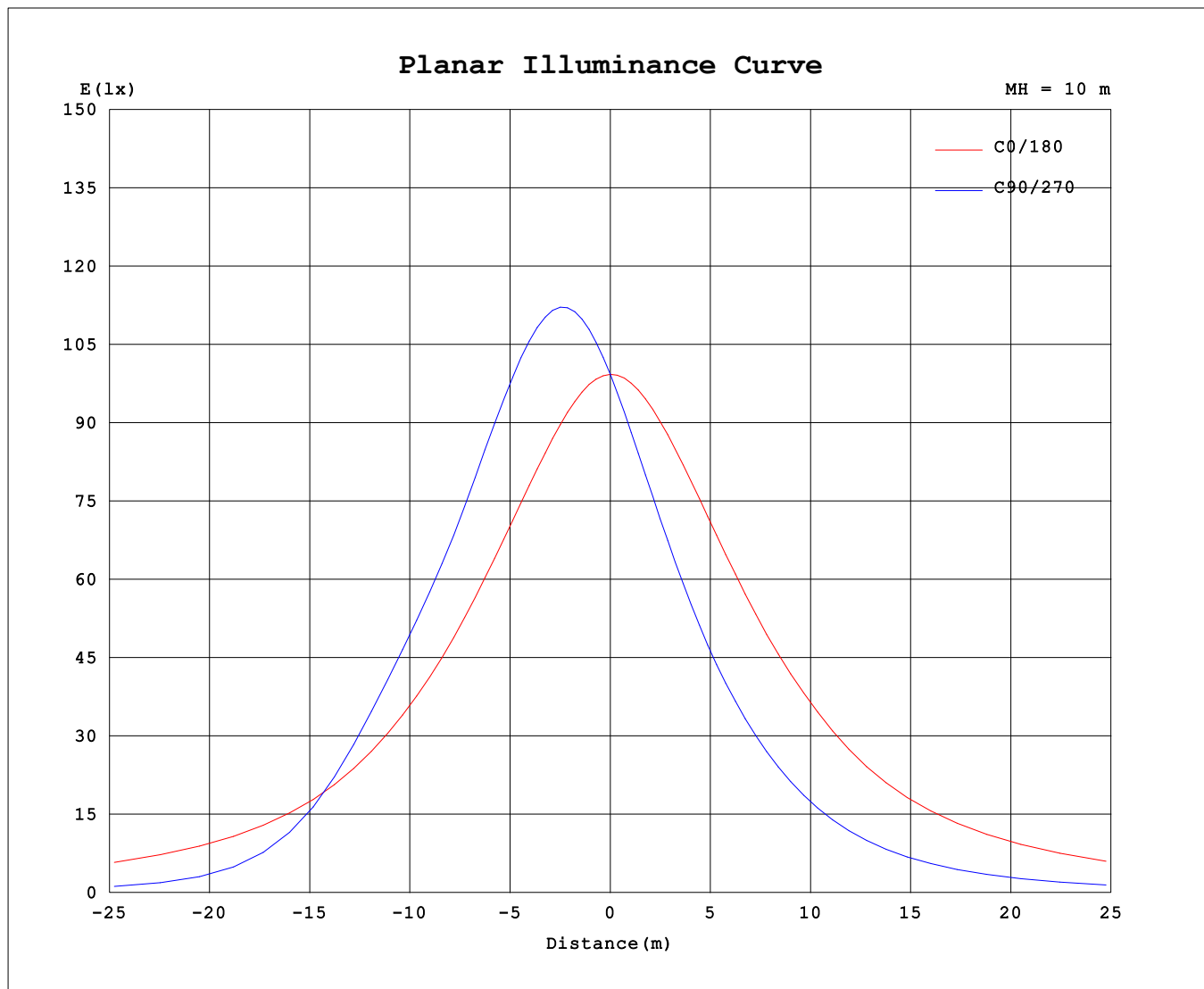
Test:U:119.48V I:2.5047A P:297.37W PF:0.9937 Freq:60.00Hz UTHDi:1.95% ITHDi:8.44% KDisp:0.9979 Lamp Flux:45406.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
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: MEDIUM

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]

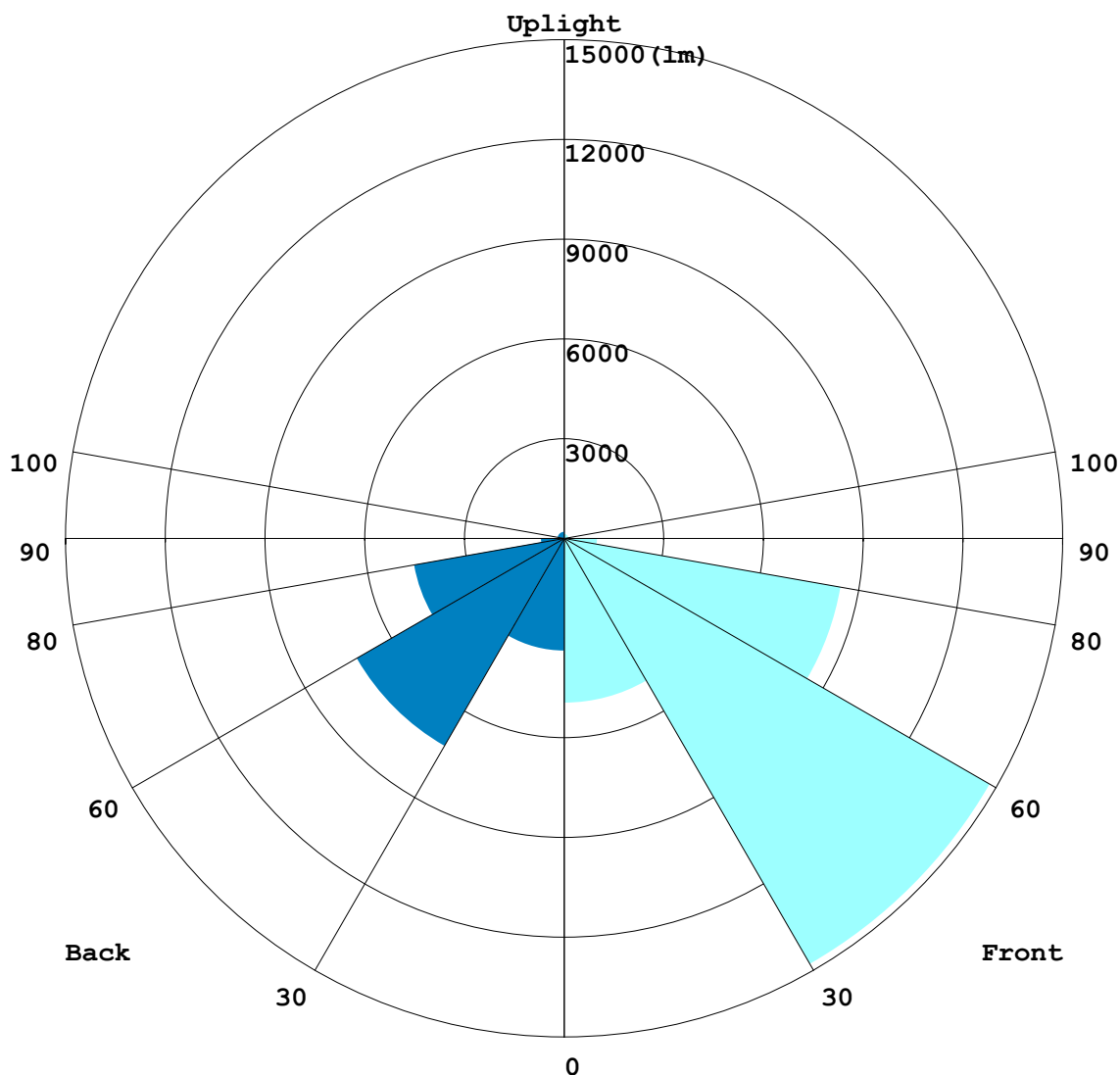
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LCS REPORT

Test:U:119.48V I:2.5047A P:297.37W PF:0.9937 Freq:60.00Hz		
UTHDi:1.95% ITHDi:8.44% KDisp:0.9979 Lamp Flux:45406.5x1 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: MEDIUM  
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:119.48V I:2.5047A P:297.37W PF:0.9937 Freq:60.00Hz UTHDi:1.95% ITHDi:8.44% KDisp:0.9979 Lamp Flux:45406.5x1 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)	4944.7	10.9
FM - Front-Medium(30-60)	14787	32.6
FH - Front-High(60-80)	8444.3	18.6
FVH - Front-Very High(80-90)	989.87	2.2
Total Forward Light	29328	64.6

BL - Back-Low(0-30)	3378	7.4
BM - Back-Medium(30-60)	7203.8	15.9
BH - Back-High(60-80)	4583.8	10.1
BVH - Back-Very High(80-90)	695.04	1.5
Total Back Light	16079	35.4

UL - Uplight-Low(90-100)	49.758	0.1
UH - Uplight-High(100-180)	330.29	0.7
Total Up Light	380.05	0.8

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

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	15861	218.25	16079
Street Side	29166	161.81	29328

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: MEDIUM  
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:

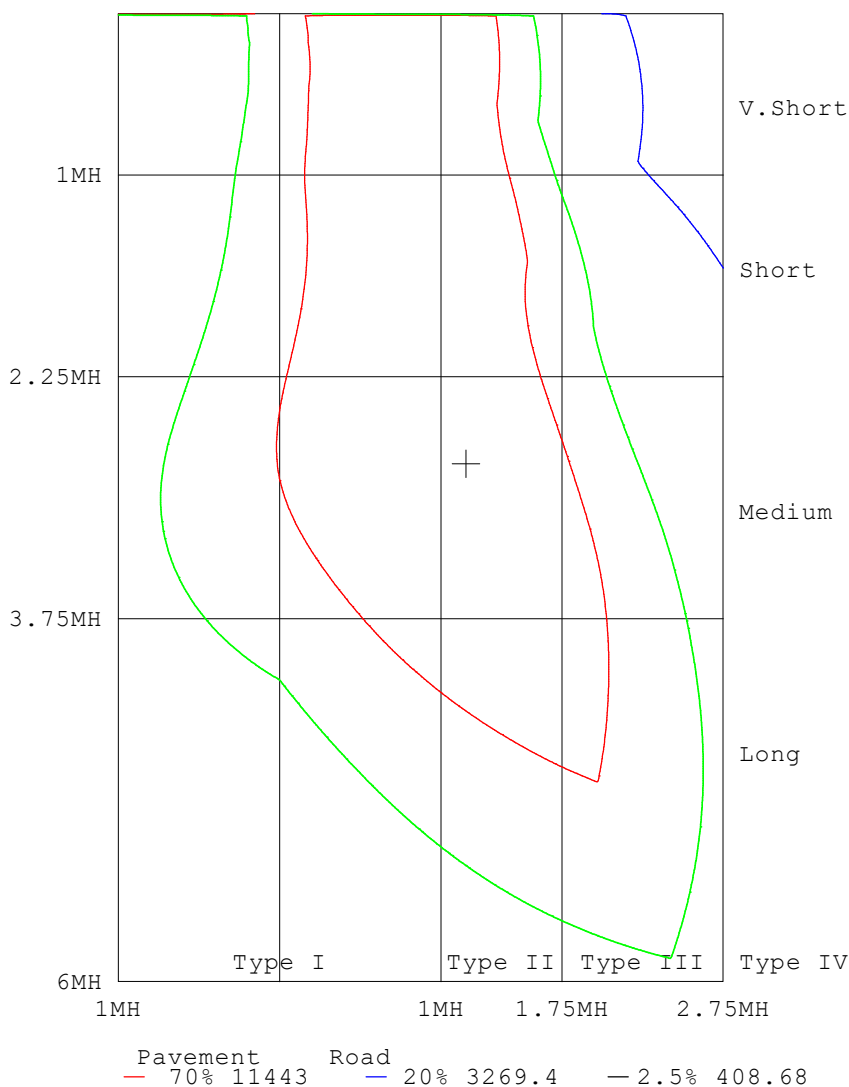


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.48V I:2.5047A P:297.37W PF:0.9937 Freq:60.00Hz UTHDi:1.95% ITHDi:8.44% KDisp:0.9979 Lamp Flux:45406.5x1 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: MEDIUM  
 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:119.48V I:2.5047A P:297.37W PF:0.9937 Freq:60.00Hz		
UTHDi:1.95% ITHDi:8.44% KDisp:0.9979 Lamp Flux:45406.5x1 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	985	985	985	985	985	985	985	985	985	985	985	985	985	985	985	985			
5	983	1009	1032	1048	1053	1047	1033	1011	985	960	938	924	920	925	938	959			
10	977	1043	1103	1143	1155	1140	1103	1047	982	920	871	838	831	840	870	918			
15	973	1066	1148	1202	1218	1198	1149	1072	980	894	828	788	778	791	827	890			
20	970	1101	1210	1277	1294	1270	1211	1111	980	857	769	719	708	722	768	852			
25	972	1129	1248	1317	1333	1308	1249	1141	982	835	732	678	666	682	733	829			
30	978	1173	1300	1361	1373	1350	1300	1188	989	804	683	625	613	631	685	798			
35	985	1204	1333	1381	1384	1367	1333	1221	996	783	651	594	581	602	655	778			
40	995	1255	1381	1397	1391	1381	1378	1277	1009	753	602	549	532	560	610	748			
45	1004	1291	1406	1409	1390	1391	1401	1317	1020	732	568	518	498	529	577	728			
50	1012	1331	1444	1401	1298	1363	1446	1354	1026	695	513	463	445	475	526	692			
55	1012	1347	1479	1301	1085	1229	1478	1377	1030	668	474	423	409	435	488	664			
60	1026	1381	1487	909	613	819	1415	1436	1055	635	411	361	354	374	427	625			
65	1054	1421	1376	588	366	516	1229	1505	1091	624	370	319	319	333	385	608			
70	1119	1518	1013	269	190	238	824	1632	1143	636	308	257	266	271	322	609			
75	1059	1547	701	169	132	151	532	1611	1010	604	271	215	230	228	281	612			
80	587	1200	285	87.1	73.7	78.4	187	1000	463	357	205	153	158	165	219	428			
85	249	616	112	52.0	42.5	45.5	81.8	375	171	161	143	108	91.1	117	165	231			
90	20.5	77.0	12.6	9.99	8.59	5.62	9.98	3.61	5.20	11.1	1.79	20.4	0.79	5.93	40.0	15.6			
95	5.89	4.25	2.62	1.71	1.50	1.53	1.74	2.38	5.39	4.77	2.06	1.02	1.03	2.16	4.52	4.76			
100	7.39	5.43	3.35	2.22	1.94	1.94	2.15	2.90	6.93	6.19	3.30	1.76	1.81	3.53	6.12	6.04			
105	8.21	6.07	3.80	2.55	2.22	2.21	2.42	3.14	7.72	6.86	4.12	2.46	2.56	4.56	6.99	6.49			
110	9.11	6.82	4.46	3.04	2.66	2.61	2.83	3.48	8.63	7.73	5.22	3.75	3.93	6.07	7.93	6.85			
115	9.62	7.27	4.90	3.38	2.95	2.90	3.08	3.71	9.18	8.32	5.83	4.56	4.86	6.90	8.42	7.12			
120	10.2	7.86	5.41	3.81	3.34	3.27	3.39	3.96	9.87	9.15	6.62	5.62	6.00	7.84	8.93	7.51			
125	10.3	8.08	5.64	4.07	3.57	3.47	3.58	4.07	10.1	9.56	7.17	6.21	6.59	8.24	9.12	7.58			
130	9.99	8.13	5.92	4.42	3.88	3.73	3.82	4.23	10.1	9.91	8.01	7.04	7.32	8.64	9.19	7.41			
135	9.76	8.10	6.10	4.66	4.07	3.89	3.98	4.32	9.93	10.00	8.48	7.58	7.79	8.81	8.99	7.18			
140	9.49	8.11	6.38	5.04	4.40	4.17	4.19	4.46	9.66	9.99	8.97	8.29	8.40	8.90	8.41	6.76			
145	9.34	8.14	6.56	5.31	4.65	4.37	4.31	4.54	9.47	9.89	9.15	8.60	8.65	8.79	7.98	6.48			
150	9.13	8.17	6.87	5.72	4.98	4.64	4.50	4.65	9.19	9.64	9.26	8.80	8.71	8.40	7.41	6.06			
155	9.00	8.22	7.09	6.00	5.23	4.84	4.65	4.73	9.03	9.46	9.23	8.80	8.60	8.07	7.09	5.86			
160	8.90	8.33	7.44	6.45	5.64	5.17	4.89	4.85	8.91	9.28	9.14	8.71	8.35	7.63	6.71	5.66			
165	8.88	8.45	7.70	6.77	5.95	5.42	5.06	4.96	8.90	9.23	9.09	8.64	8.17	7.43	6.55	5.62			
170	8.92	8.71	8.12	7.24	6.43	5.81	5.40	5.19	8.96	9.21	9.08	8.54	7.94	7.18	6.43	5.65			
175	8.98	8.87	8.38	7.55	6.77	6.11	5.64	5.33	9.01	9.18	8.98	8.38	7.73	6.97	6.28	5.63			
180	8.99	9.04	8.71	7.99	7.24	6.54	5.96	5.49	8.99	9.04	8.71	7.99	7.26	6.55	5.97	5.49			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

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: