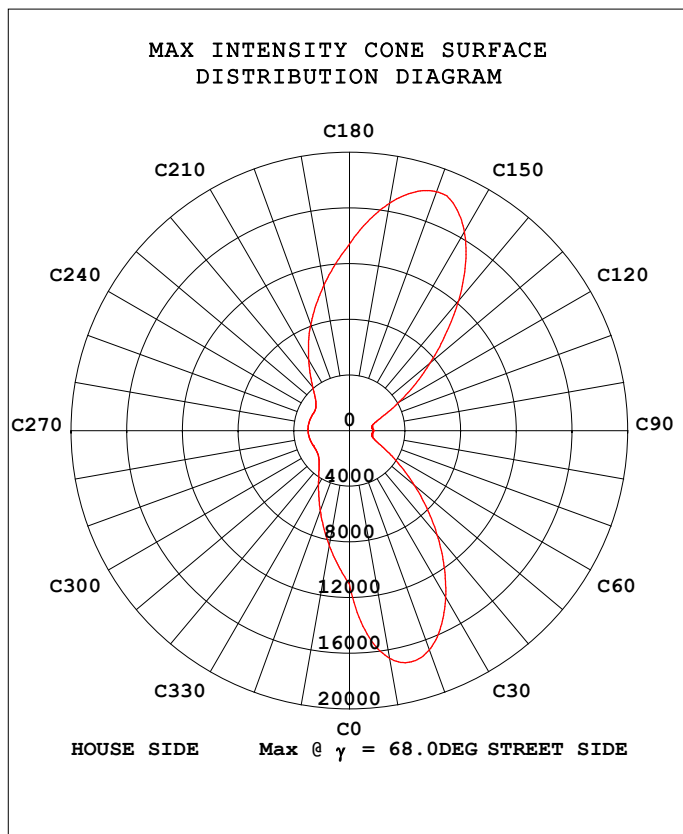
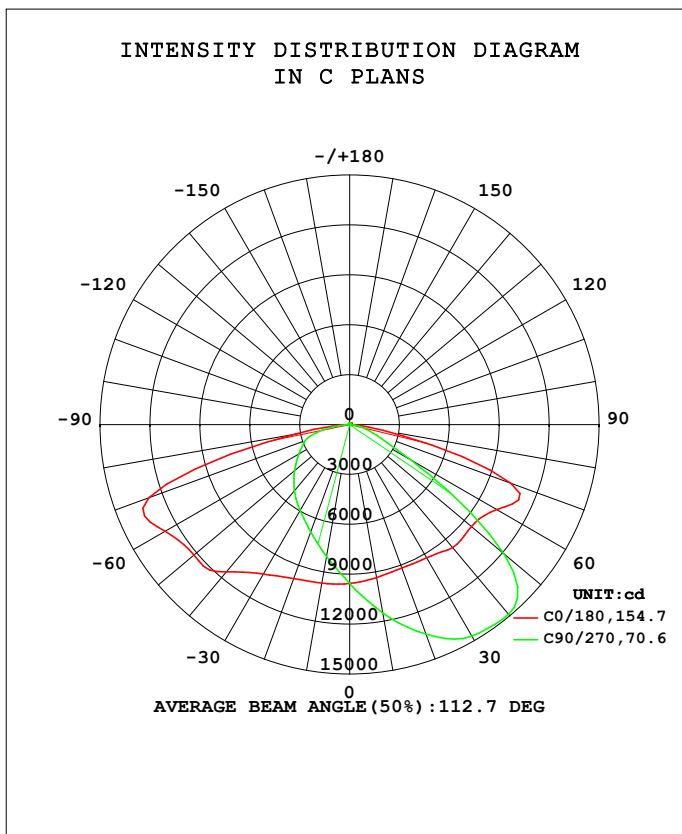


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:277.20V I:1.1352A P:312.15W PF:0.9920 Freq:50.00Hz		
UTHDi:1.50% ITHDi:2.67% KDisp:0.9982 Lamp Flux:44821.9x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.59 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-HV-XX	Imax (cd)	18266	η street_up (%)	0.3
NOMINAL POWER (W)	300	LOR (%)	100.0	η street_down (%)	63.9
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	44822	η house_up (%)	0.4
NOMINAL FLUX (lm)	44821.9	MAXIMUM @ (C, γ)	158,68.0	η house_down (%)	35.3
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	277	η down (%)	99.2	SLI	24.514



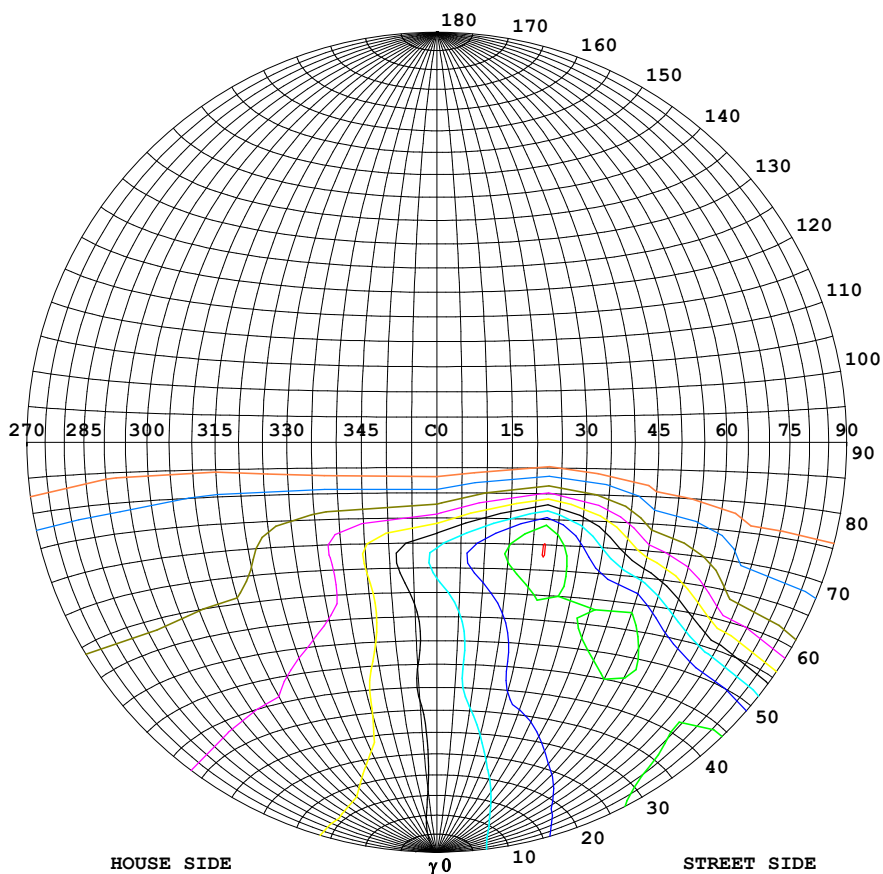
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

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:277.20V I:1.1352A P:312.15W PF:0.9920 Freq:50.00Hz		
UTHDi:1.50% ITHDi:2.67% KDisp:0.9982 Lamp Flux:44821.9x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type III - Medium
 CIE:Average - Intermediate
 IES:Semi cut-off
 CIE:Non-cut-off
 Max.At80:176.5cd/klm
 Max.At90:0.7773cd/klm
 Max.80-90:176.5cd/klm

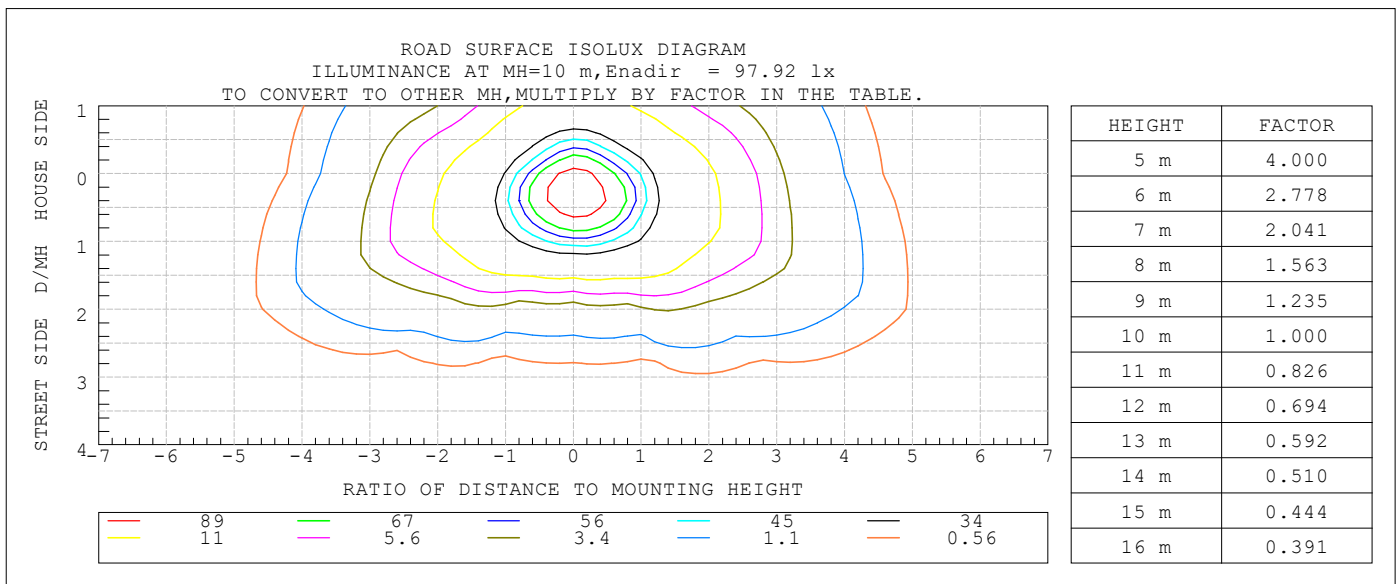
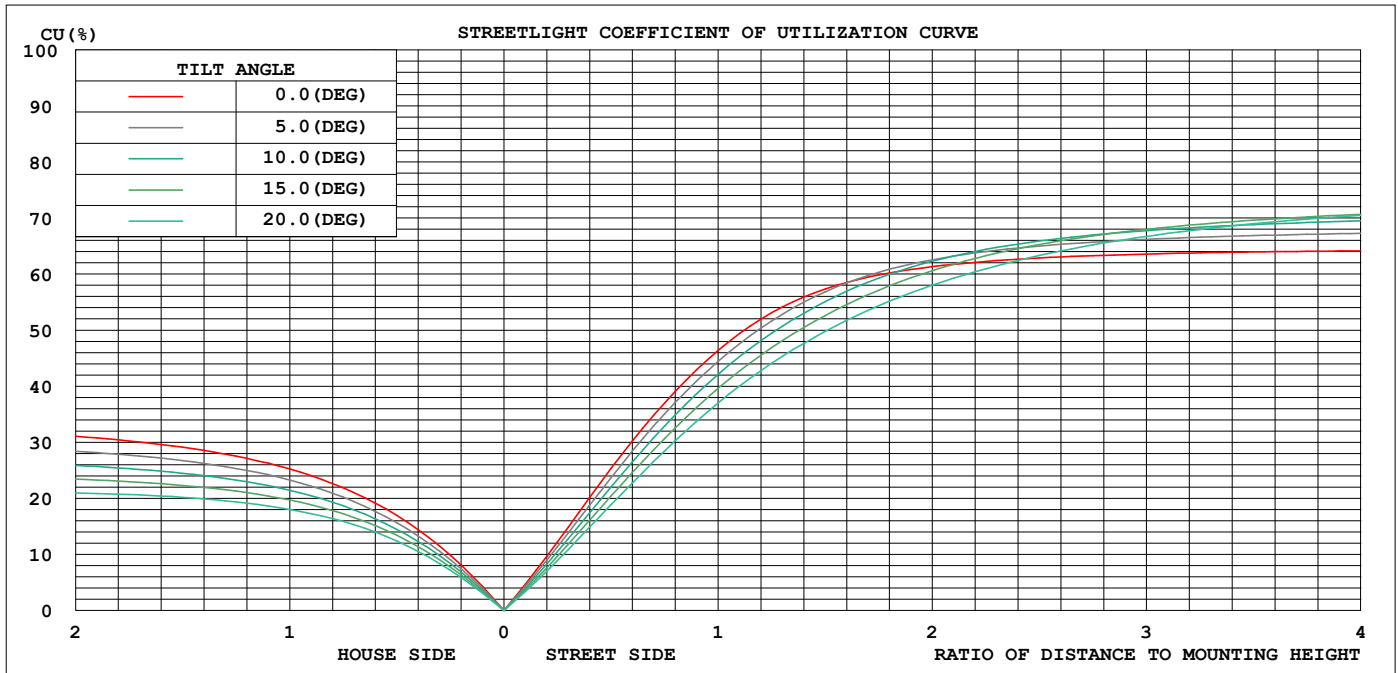
ISOCANDELA DIAGRAM		
UNIT		cd
I _{max} =100%		18266
90%		16439
80%		14613
70%		12786
60%		10959
50%		9133
40%		7306
30%		5480
20%		3653
10%		1827
5%		913

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 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: MEDIUM
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:277.20V I:1.1352A P:312.15W PF:0.9920 Freq:50.00Hz		
UTHDi:1.50% ITHDi:2.67% KDisp:0.9982 Lamp Flux:44821.9x1 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	933.5	1070	1149	1104	967.2	850.0	804.6	832.0	0- 10	916.2	916.2	2.04,2.04
20	918.5	1188	1340	1279	985.8	756.0	686.5	729.4	10- 20	2764	3680	8.21,8.21
30	925.8	1320	1469	1494	1038	676.7	597.1	648.7	20- 30	4646	8326	18.6,18.6
40	964.8	1412	1487	1684	1155	602.4	517.7	572.8	30- 40	6525	14851	33.1,33.1
50	955.3	1493	1214	1757	1221	532.9	433.3	485.9	40- 50	8082	22932	51.2,51.2
60	1023	1376	421.3	1603	1283	426.0	353.9	386.3	50- 60	8327	31259	69.7,69.7
70	1031	622.5	147.6	792.1	1284	336.9	285.3	293.3	60- 70	7401	38660	86.3,86.3
80	205.8	106.9	56.11	141.5	335.1	243.1	134.7	195.9	70- 80	4872	43532	97.1,97.1
90	3.484	1.792	1.033	2.636	2.986	0.5587	0.4456	2.091	80- 90	935.0	44467	99.2,99.2
100	6.480	2.838	1.561	1.537	4.274	1.432	0.9646	4.860	90-100	23.24	44490	99.3,99.3
110	8.804	4.159	2.277	2.210	6.259	3.037	2.593	7.049	100-110	37.59	44528	99.3,99.3
120	11.13	5.617	3.092	2.969	8.273	4.808	4.994	9.106	110-120	50.79	44579	99.5,99.5
130	12.36	6.708	3.761	3.555	9.798	6.752	7.219	10.69	120-130	59.47	44638	99.6,99.6
140	12.13	7.339	4.409	4.073	10.41	8.523	9.354	10.67	130-140	59.31	44697	99.7,99.7
150	11.55	8.028	5.234	4.602	10.17	9.911	10.48	9.648	140-150	51.64	44749	99.8,99.8
160	11.08	8.855	6.179	5.223	10.15	10.75	10.70	8.736	150-160	39.46	44788	99.9,99.9
170	10.85	9.766	7.368	6.033	10.42	10.99	10.13	8.010	160-170	24.92	44813	100,100
180	10.64	10.52	8.758	6.950	10.66	10.54	8.786	6.972	170-180	8.550	44822	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

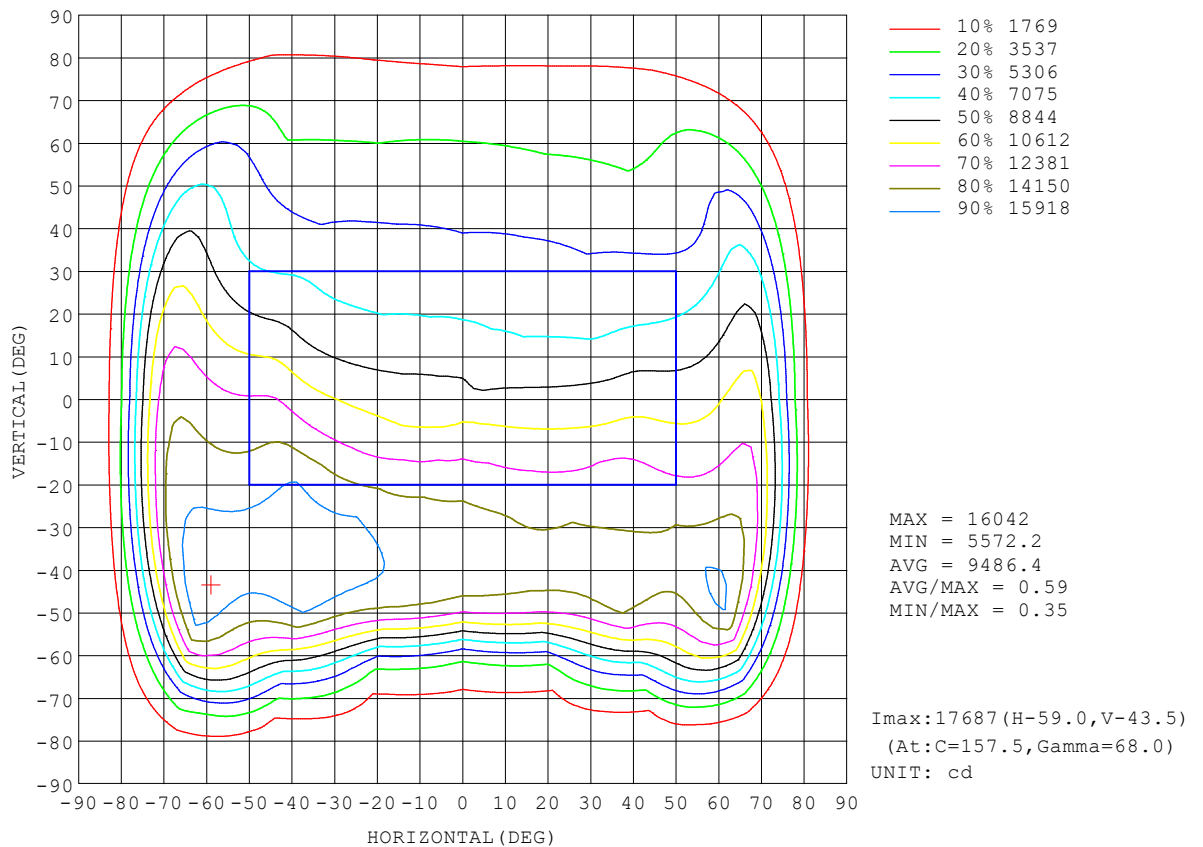
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

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

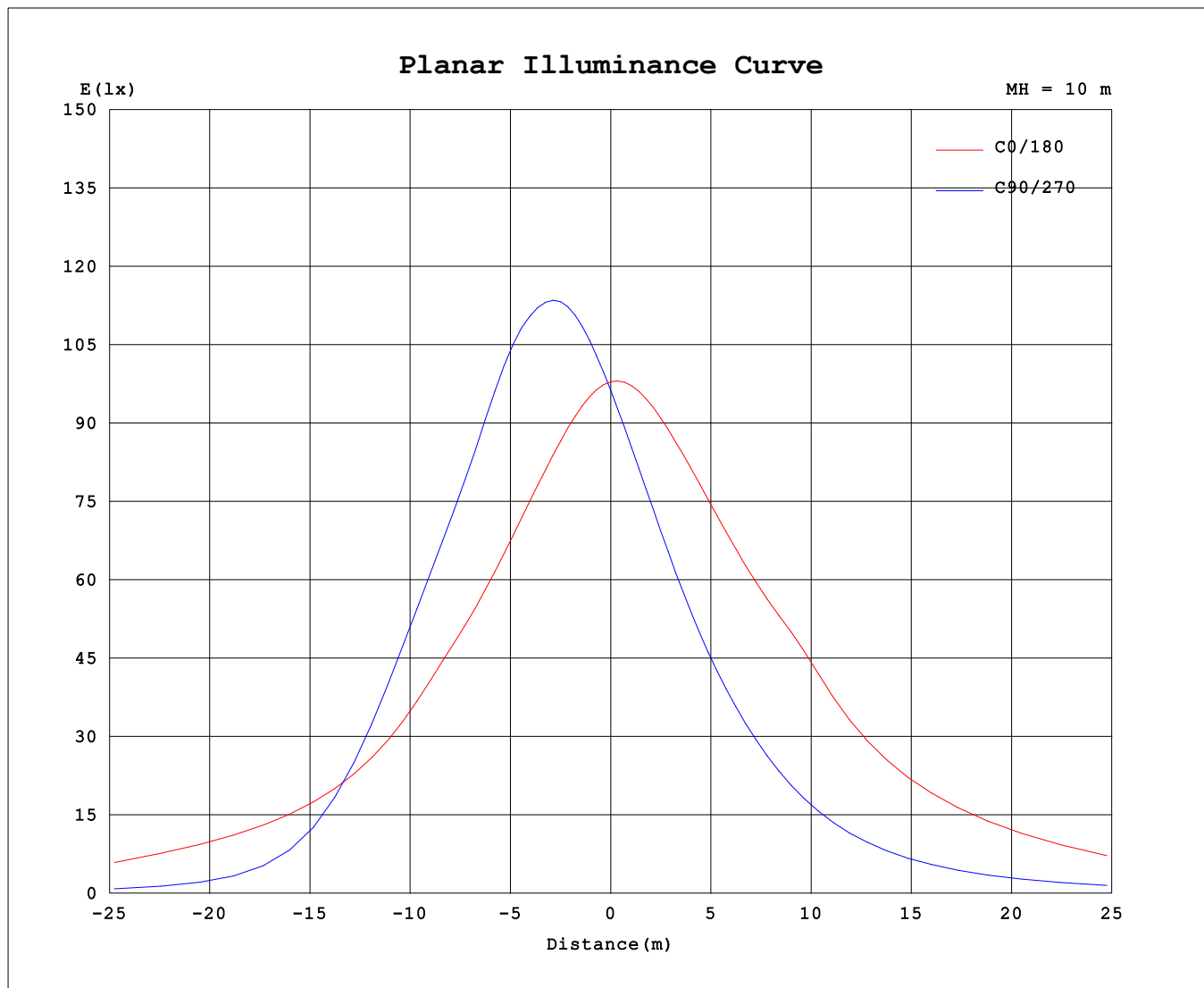
Test:U:277.20V I:1.1352A P:312.15W PF:0.9920 Freq:50.00Hz		
UTHDi:1.50% ITHDi:2.67% KDisp:0.9982 Lamp Flux:44821.9x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3°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: MEDIUM

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]

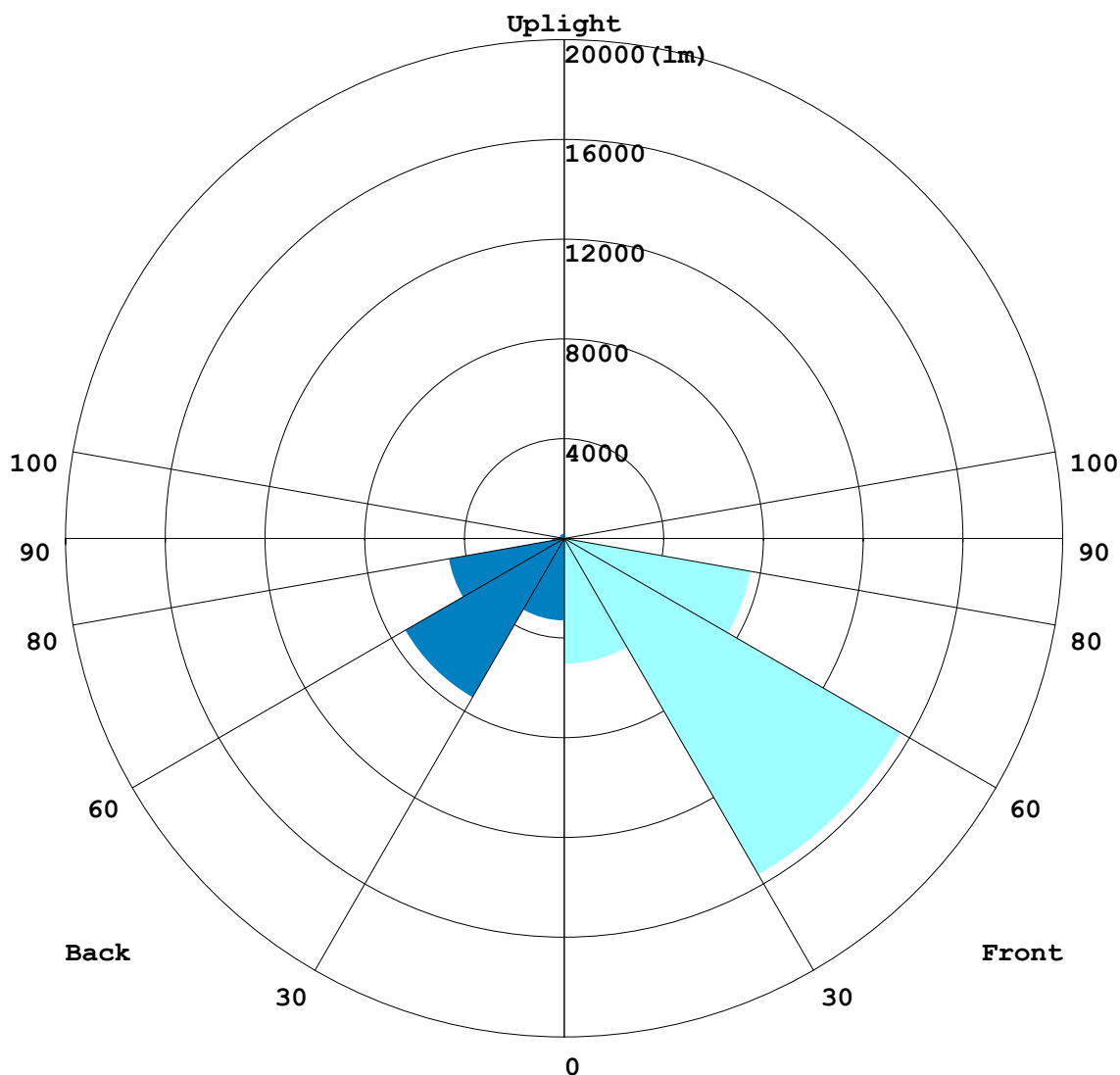
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:277.20V I:1.1352A P:312.15W PF:0.9920 Freq:50.00Hz		
UTHDi:1.50% ITHDi:2.67% KDisp:0.9982 Lamp Flux:44821.9x1 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: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:277.20V I:1.1352A P:312.15W PF:0.9920 Freq:50.00Hz UTHDi:1.50% ITHDi:2.67% KDisp:0.9982 Lamp Flux:44821.9x1 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)	5030.2	11.2
FM - Front-Medium(30-60)	15571	34.7
FH - Front-High(60-80)	7582.5	16.9
FVH - Front-Very High(80-90)	441.65	1.0
Total Forward Light	28781	64.2

BL - Back-Low(0-30)	3295.9	7.4
BM - Back-Medium(30-60)	7362.4	16.4
BH - Back-High(60-80)	4690.1	10.5
BVH - Back-Very High(80-90)	493.31	1.1
Total Back Light	16041	35.8

UL - Uplight-Low(90-100)	23.237	0.1
UH - Uplight-High(100-180)	331.73	0.7
Total Up Light	354.97	0.8

BUG(Back,Up,Glare) Rating	B4-U3-G4
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	15842	199.5	16041
Street Side	28625	155.47	28781

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

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]

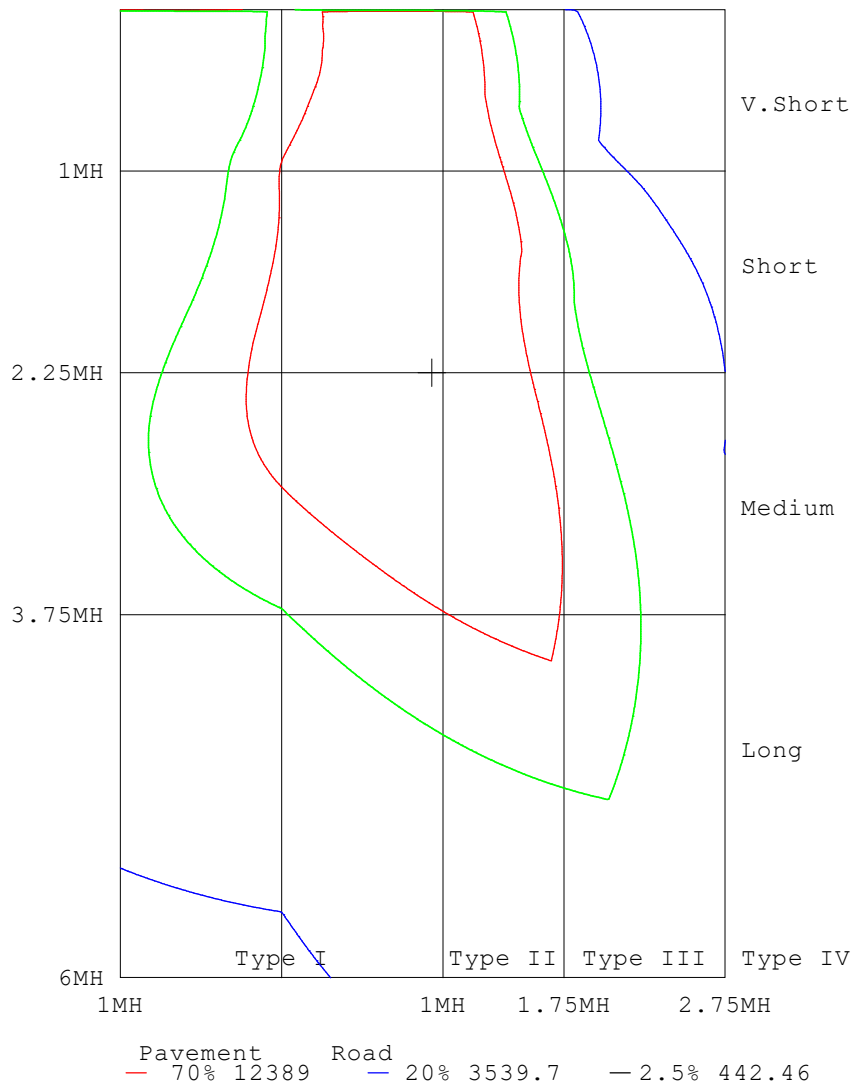
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:277.20V I:1.1352A P:312.15W PF:0.9920 Freq:50.00Hz		
UTHDi:1.50% ITHDi:2.67% KDisp:0.9982 Lamp Flux:44821.9x1 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: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:277.20V I:1.1352A P:312.15W PF:0.9920 Freq:50.00Hz		
UTHDi:1.50% ITHDi:2.67% KDisp:0.9982 Lamp Flux:44821.9x1 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	955	955	955	955	955	955	955	955	955	955	955	955	955	955	955	955			
5	948	975	1000	1019	1028	1026	1012	988	961	934	912	897	890	892	903	923			
10	933	1004	1070	1123	1149	1145	1104	1039	967	900	850	818	805	809	832	875			
15	925	1024	1118	1191	1230	1227	1171	1078	972	877	811	771	754	759	788	844			
20	918	1062	1188	1285	1340	1345	1279	1149	986	846	756	707	687	693	729	803			
25	919	1095	1237	1342	1407	1422	1357	1208	1002	827	723	669	647	655	695	779			
30	926	1154	1320	1403	1469	1525	1494	1318	1038	804	677	621	597	608	649	746			
35	936	1208	1370	1415	1480	1560	1591	1409	1073	792	647	593	566	581	619	727			
40	965	1299	1412	1430	1487	1586	1684	1582	1155	789	602	551	518	539	573	702			
45	964	1323	1437	1433	1453	1590	1712	1662	1215	797	576	518	484	505	542	674			
50	955	1343	1493	1323	1214	1476	1757	1667	1221	753	533	462	433	448	486	621			
55	965	1373	1514	1094	897	1237	1766	1683	1230	726	489	426	400	410	446	591			
60	1023	1456	1376	598	421	704	1603	1746	1283	717	426	369	354	353	386	558			
65	1089	1544	1120	342	254	405	1325	1801	1337	738	388	329	325	317	347	553			
70	1031	1625	623	168	148	187	792	1812	1284	748	337	275	285	267	293	568			
75	704	1427	355	113	105	124	466	1637	963	636	306	242	244	235	261	482			
80	206	557	107	58.8	56.1	64.9	142	791	335	295	243	180	135	164	196	222			
85	69.1	131	38.7	30.3	28.7	35.6	57.0	283	105	119	161	119	61.5	96.0	108	79.7			
90	3.48	2.45	1.79	1.31	1.03	2.08	2.64	2.66	2.99	1.61	0.56	0.49	0.45	0.87	2.09	2.12			
95	4.65	3.33	2.10	1.38	1.16	1.11	1.19	1.44	2.73	2.28	0.79	0.55	0.58	1.26	3.18	3.16			
100	6.48	4.68	2.84	1.84	1.56	1.47	1.54	1.90	4.27	3.57	1.43	0.84	0.96	2.44	4.86	4.54			
105	7.50	5.46	3.33	2.15	1.83	1.71	1.78	2.14	5.15	4.27	2.02	1.21	1.44	3.50	5.81	5.15			
110	8.80	6.57	4.16	2.71	2.28	2.14	2.21	2.55	6.26	5.24	3.04	2.10	2.59	5.18	7.05	5.92			
115	9.71	7.31	4.76	3.12	2.60	2.45	2.52	2.86	7.01	6.00	3.74	2.89	3.55	6.27	7.86	6.58			
120	11.1	8.48	5.62	3.70	3.09	2.91	2.97	3.33	8.27	7.18	4.81	4.12	4.99	7.64	9.11	7.55			
125	11.9	9.17	6.12	4.03	3.39	3.20	3.22	3.59	9.02	7.91	5.58	4.95	5.89	8.43	9.91	8.01			
130	12.4	9.86	6.71	4.47	3.76	3.58	3.55	3.88	9.80	8.90	6.75	6.25	7.22	9.52	10.7	8.32			
135	12.4	10.0	7.00	4.77	4.00	3.79	3.77	4.06	10.2	9.44	7.49	7.11	8.13	10.1	10.9	8.34			
140	12.1	10.1	7.34	5.29	4.41	4.14	4.07	4.32	10.4	10.1	8.52	8.30	9.35	10.7	10.7	8.19			
145	11.9	10.1	7.59	5.66	4.74	4.39	4.28	4.48	10.3	10.3	9.13	8.96	9.94	10.9	10.3	7.88			
150	11.5	10.1	8.03	6.23	5.23	4.77	4.60	4.72	10.2	10.5	9.91	9.77	10.5	10.7	9.65	7.36			
155	11.3	10.2	8.35	6.63	5.58	5.05	4.84	4.88	10.1	10.6	10.3	10.2	10.7	10.5	9.25	7.12			
160	11.1	10.3	8.86	7.31	6.18	5.55	5.22	5.13	10.1	10.7	10.7	10.6	10.7	10.13	8.74	6.89			
165	11.0	10.4	9.22	7.81	6.64	5.94	5.51	5.34	10.2	10.8	10.9	10.7	10.5	9.79	8.44	6.78			
170	10.9	10.6	9.77	8.52	7.37	6.55	6.03	5.69	10.4	10.9	11.0	10.7	10.1	9.19	8.01	6.68			
175	10.8	10.7	10.1	9.02	7.92	7.04	6.40	5.93	10.5	10.9	10.9	10.3	9.63	8.66	7.59	6.52			
180	10.6	10.8	10.5	9.73	8.76	7.81	6.95	6.22	10.7	10.8	10.5	9.73	8.79	7.82	6.97	6.22			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

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: