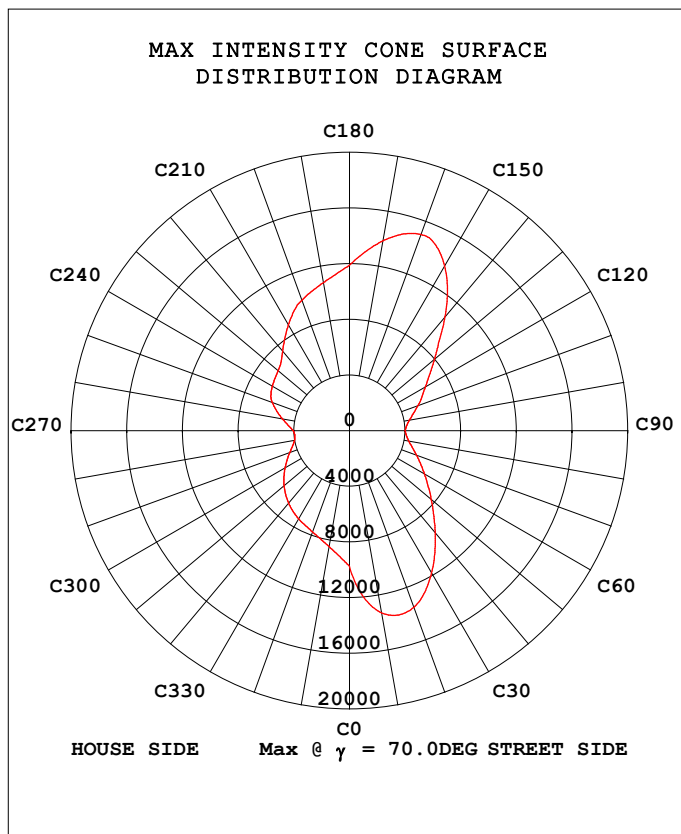
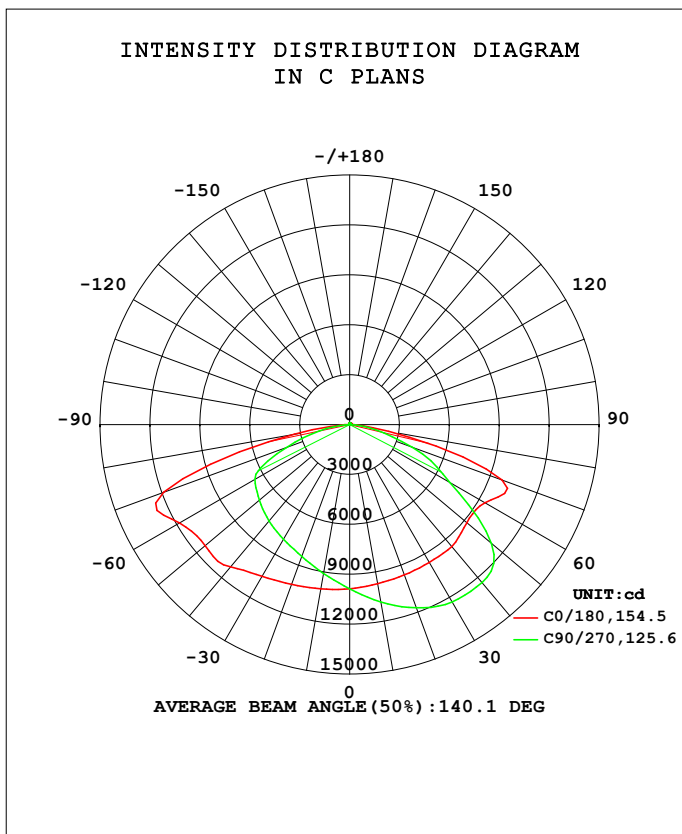


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:277.04V I:1.0887A P:298.64W PF:0.9902 Freq:50.00Hz UTHDi:1.32% ITHDi:3.39% KDisp:0.9980 Lamp Flux:48233.1x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 161.51 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-HV-XX	Imax (cd)	15009	η street_up (%)	0.4
NOMINAL POWER (W)	300	LOR (%)	100.0	η street_down (%)	56.5
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	48233	η house_up (%)	0.4
NOMINAL FLUX (lm)	48233.1	MAXIMUM @ (C, γ)	158,70.0	η house_down (%)	42.8
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	277	η down (%)	99.2	SLI	24.704



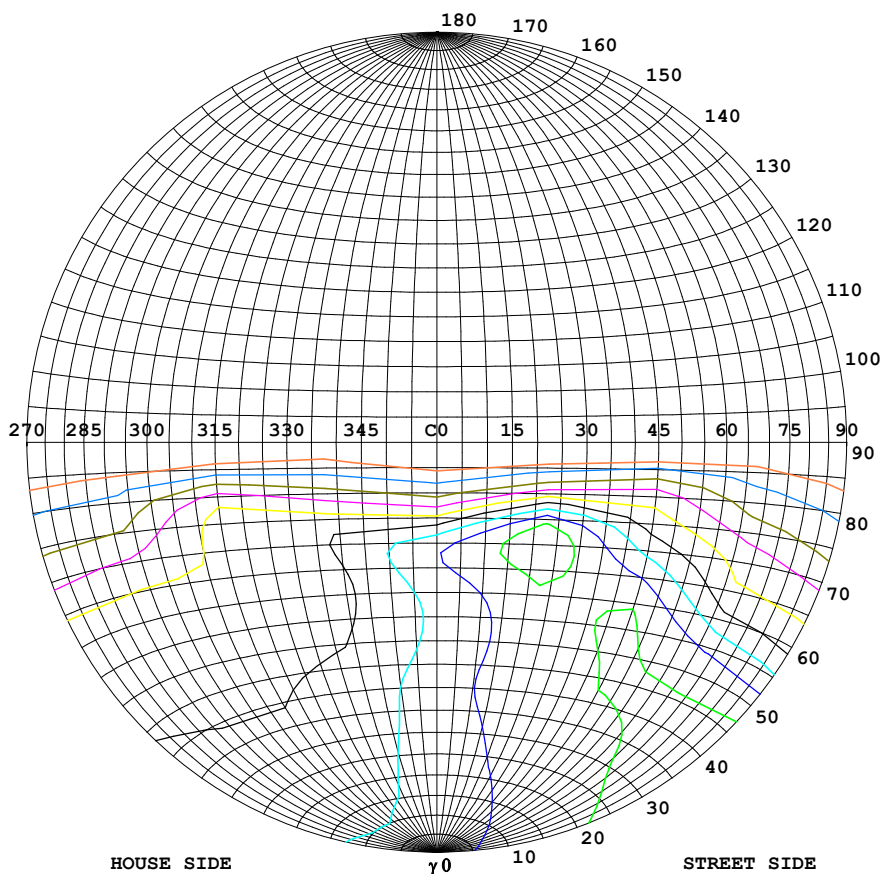
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

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:277.04V I:1.0887A P:298.64W PF:0.9902 Freq:50.00Hz		
UTHDi:1.32% ITHDi:3.39% KDisp:0.9980 Lamp Flux:48233.1x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type IV - Medium
CIE:Average - Long
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:152.3cd/klm
Max.At90:2.374cd/klm
Max.80-90:152.3cd/klm

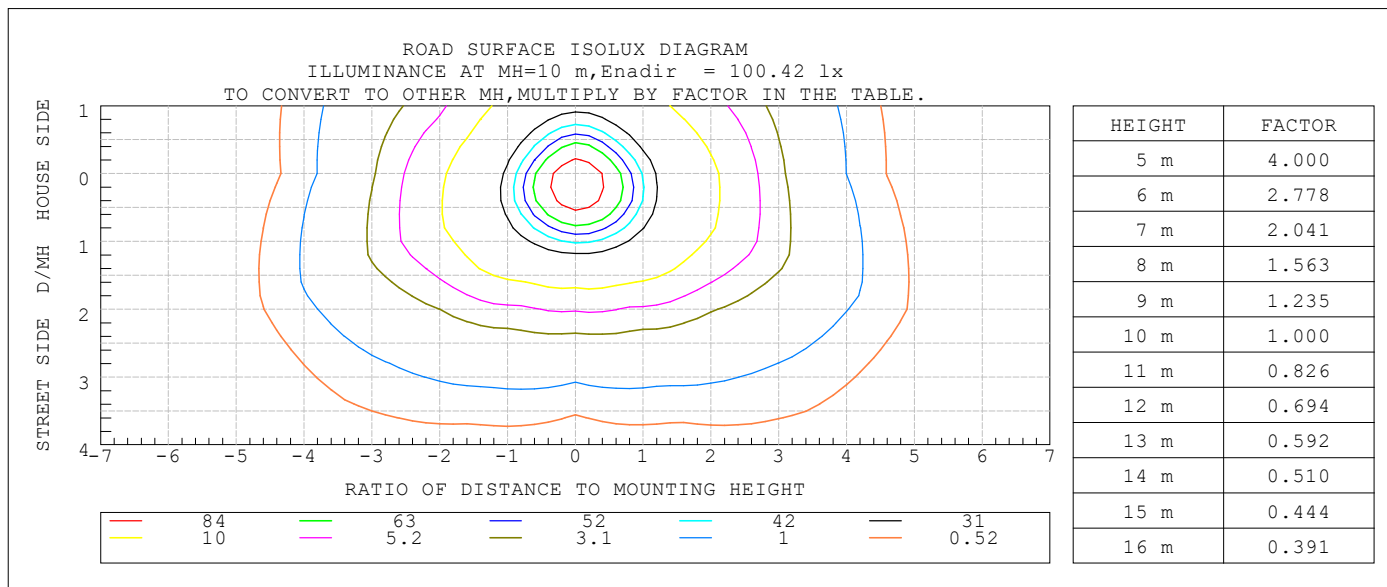
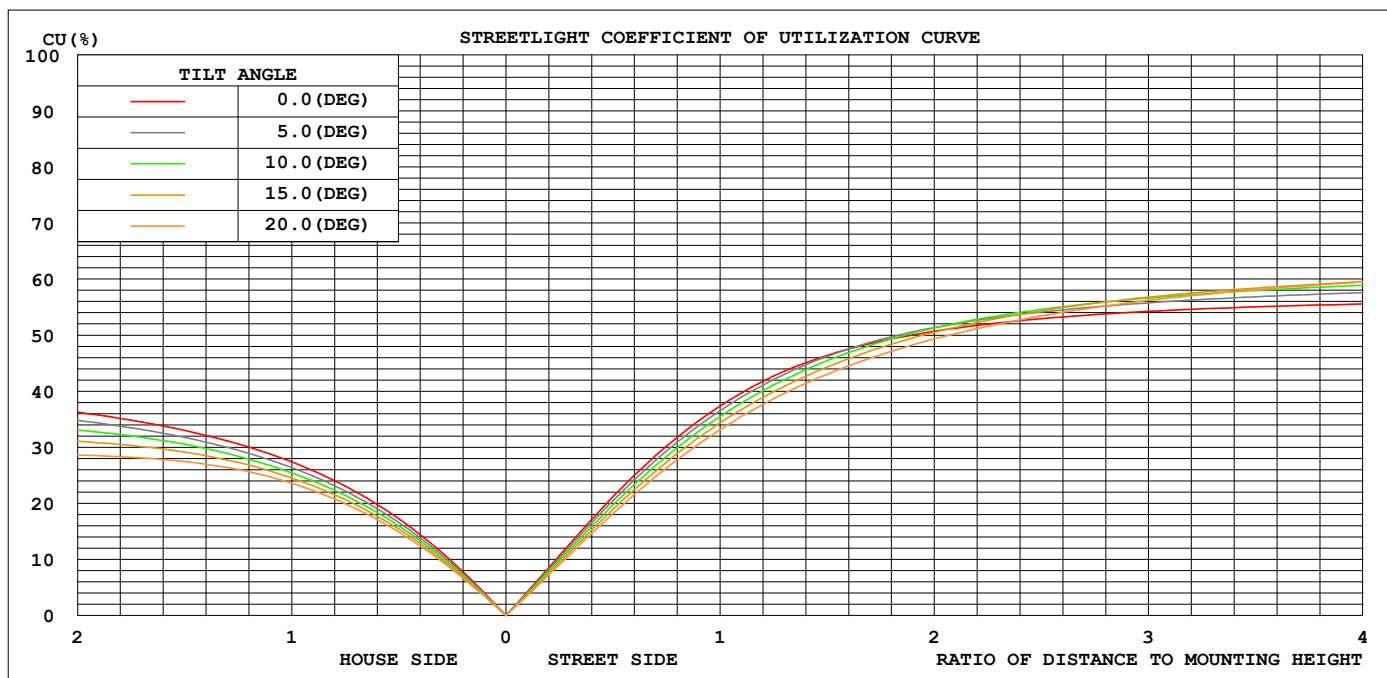
ISOCANDELA DIAGRAM		
UNIT		cd
I _{max} =100%		15009
90%		13508
80%		12007
70%		10506
60%		9005
50%		7504
40%		6003
30%		4503
20%		3002
10%		1501
5%		750

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:277.04V I:1.0887A P:298.64W PF:0.9902 Freq:50.00Hz		
UTHDi:1.32% ITHDi:3.39% KDisp:0.9980 Lamp Flux:48233.1x1 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	971.2	1040	1083	1069	1002	937.7	908.7	918.7	0- 10	944.5	944.5	1.96,1.96
20	961.6	1094	1172	1158	1023	890.6	843.4	859.1	10- 20	2824	3768	7.81,7.81
30	957.5	1150	1232	1258	1054	845.8	796.5	808.7	20- 30	4661	8429	17.5,17.5
40	957.0	1193	1239	1349	1116	803.3	755.8	760.8	30- 40	6402	14832	30.7,30.7
50	919.2	1215	1114	1382	1134	763.4	708.4	701.1	40- 50	7854	22685	47,47
60	940.4	1183	696.2	1287	1183	700.3	659.5	640.3	50- 60	8505	31190	64.7,64.7
70	976.2	856.3	401.8	911.3	1190	696.1	405.3	649.6	60- 70	8527	39716	82.3,82.3
80	239.3	529.8	125.9	623.0	338.8	677.5	142.1	513.2	70- 80	6518	46234	95.9,95.9
90	3.234	3.048	1.620	6.969	2.090	1.397	0.9103	2.466	80- 90	1625	47859	99.2,99.2
100	5.755	3.961	2.682	2.637	3.959	2.599	2.030	4.530	90-100	30.51	47889	99.3,99.3
110	7.661	5.306	3.935	3.552	5.628	4.055	3.625	6.292	100-110	43.83	47933	99.4,99.4
120	9.506	6.833	4.986	4.660	7.346	5.666	5.480	8.051	110-120	56.04	47989	99.5,99.5
130	10.44	7.707	5.739	5.429	8.540	7.133	7.120	9.236	120-130	62.72	48052	99.6,99.6
140	10.28	7.940	6.183	5.881	9.046	8.188	8.495	9.234	130-140	60.01	48112	99.7,99.7
150	9.925	8.247	6.656	6.173	8.909	8.923	9.087	8.685	140-150	50.67	48163	99.9,99.9
160	9.701	8.723	7.182	6.578	9.030	9.453	9.290	8.349	150-160	38.18	48201	99.9,99.9
170	9.691	9.302	7.837	7.138	9.394	9.793	9.195	8.197	160-170	24.11	48225	100,100
180	9.618	9.681	8.559	7.695	9.618	9.685	8.571	7.700	170-180	8.317	48233	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:23 June 2025

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471

Humidity:65.0%

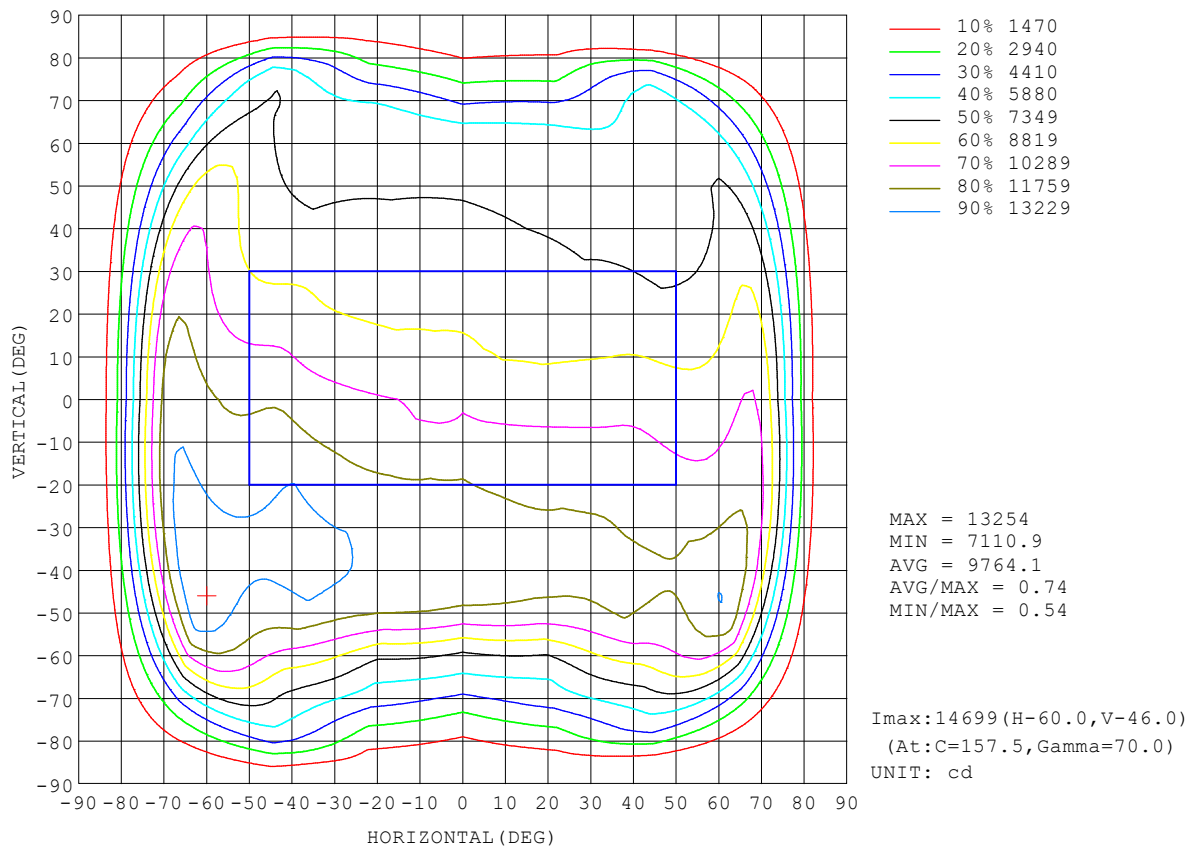
Test Distance:6.895m [K=1.0000]

Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

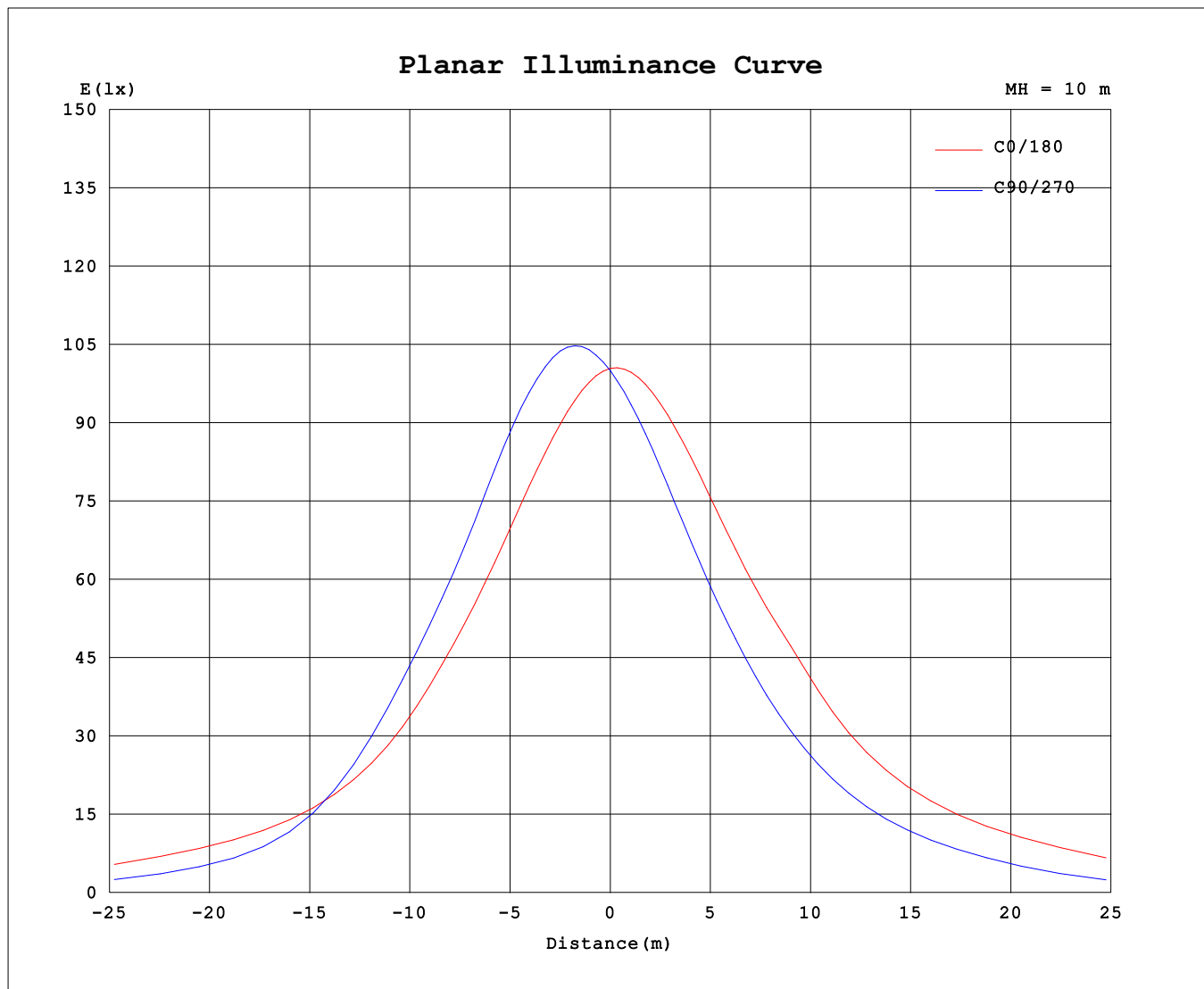
Test:U:277.04V I:1.0887A P:298.64W PF:0.9902 Freq:50.00Hz		
UTHDi:1.32% ITHDi:3.39% KDisp:0.9980 Lamp Flux:48233.1x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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=1.0000]
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]

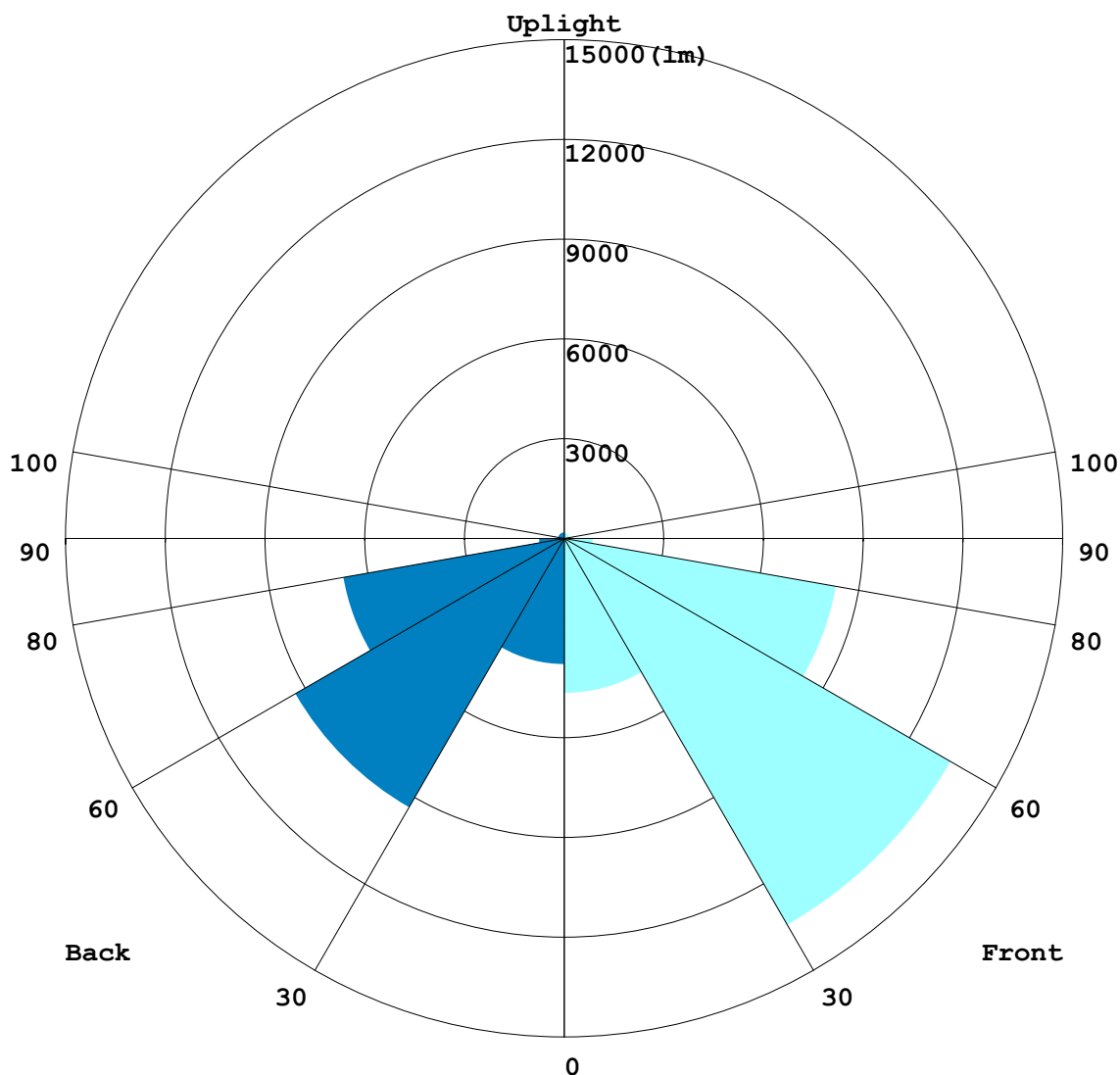
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:277.04V I:1.0887A P:298.64W PF:0.9902 Freq:50.00Hz		
UTHDi:1.32% ITHDi:3.39% KDisp:0.9980 Lamp Flux:48233.1x1 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:277.04V I:1.0887A P:298.64W PF:0.9902 Freq:50.00Hz UTHDi:1.32% ITHDi:3.39% KDisp:0.9980 Lamp Flux:48233.1x1 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)	4648.5	9.6
FM - Front-Medium(30-60)	13421	27.8
FH - Front-High(60-80)	8301.3	17.2
FVH - Front-Very High(80-90)	866.37	1.8
Total Forward Light	27418	56.8

BL - Back-Low(0-30)	3780.8	7.8
BM - Back-Medium(30-60)	9339.2	19.4
BH - Back-High(60-80)	6743	14.0
BVH - Back-Very High(80-90)	758.17	1.6
Total Back Light	20815	43.2

UL - Uplight-Low(90-100)	30.51	0.1
UH - Uplight-High(100-180)	343.88	0.7
Total Up Light	374.39	0.8

BUG(Back,Up,Glare) Rating	B5-U3-G5
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	20621	193.86	20815
Street Side	27238	180.52	27418

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

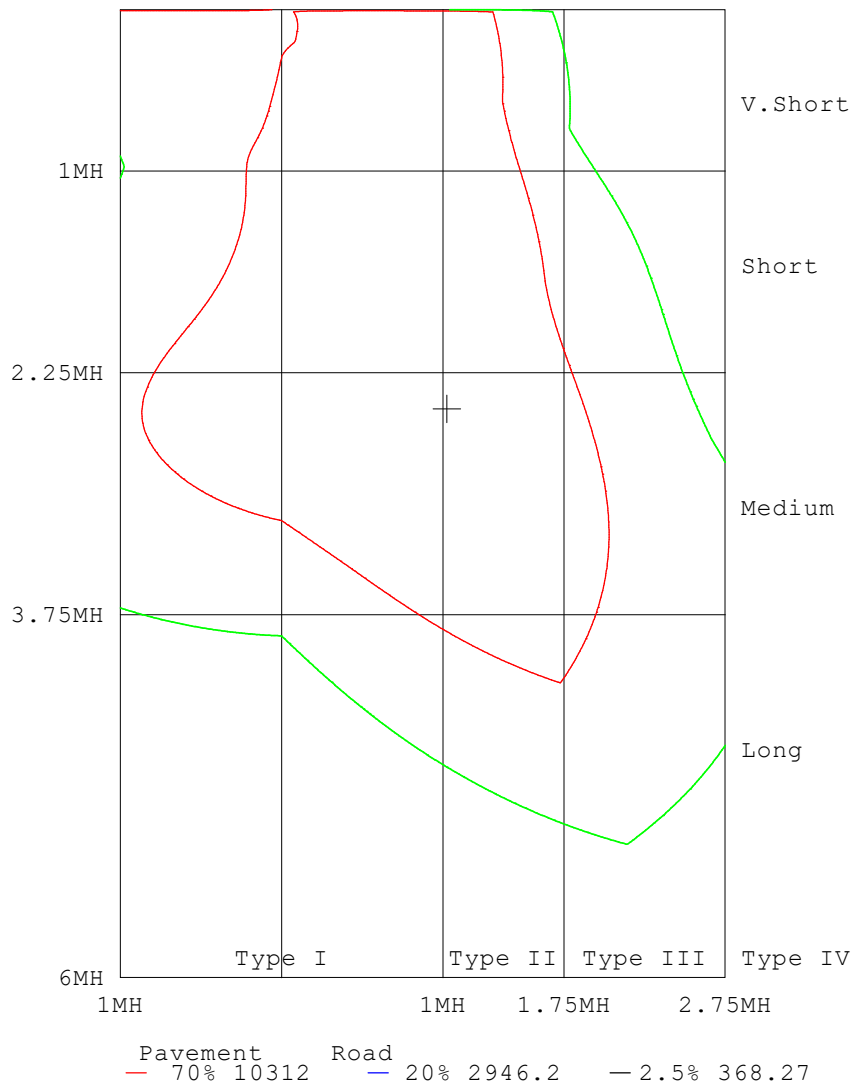
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:277.04V I:1.0887A P:298.64W PF:0.9902 Freq:50.00Hz UTHDi:1.32% ITHDi:3.39% KDisp:0.9980 Lamp Flux:48233.1x1 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:277.04V I:1.0887A P:298.64W PF:0.9902 Freq:50.00Hz		
UTHDi:1.32% ITHDi:3.39% KDisp:0.9980 Lamp Flux:48233.1x1 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	987	987	987	987	987	987	987	987	987	987	987	987	987	987	987	987			
5	981	995	1008	1018	1024	1025	1018	1007	994	979	967	959	954	953	959	969			
10	971	1007	1040	1067	1083	1086	1069	1038	1002	965	938	919	909	908	919	941			
15	966	1017	1062	1098	1122	1127	1104	1061	1009	957	919	894	881	879	894	924			
20	962	1035	1094	1140	1172	1185	1158	1101	1023	945	891	860	843	841	859	901			
25	960	1049	1115	1164	1202	1220	1196	1131	1033	936	872	838	822	819	838	886			
30	957	1074	1150	1193	1232	1268	1258	1185	1054	925	846	812	796	793	809	864			
35	957	1095	1173	1198	1237	1286	1303	1229	1072	918	829	796	780	777	790	849			
40	957	1132	1193	1200	1239	1298	1349	1313	1116	919	803	772	756	751	761	828			
45	943	1136	1200	1199	1225	1299	1363	1354	1142	924	791	754	738	730	741	804			
50	919	1130	1215	1152	1114	1241	1382	1350	1134	892	763	724	708	694	701	760			
55	913	1136	1226	1047	956	1122	1377	1355	1138	879	735	704	689	672	674	736			
60	940	1171	1183	797	696	851	1287	1392	1183	893	700	681	659	648	640	713			
65	994	1225	1079	653	584	694	1152	1439	1244	938	686	676	599	625	628	718			
70	976	1323	856	538	402	550	911	1501	1190	979	696	612	405	476	650	763			
75	708	1208	720	426	267	421	780	1377	871	822	730	482	292	343	677	712			
80	239	532	530	226	126	220	623	735	339	399	677	276	142	183	513	374			
85	84.4	164	238	118	61.5	117	394	291	117	163	341	159	59.9	84.5	152	138			
90	3.23	2.76	3.05	2.52	1.62	5.81	6.97	3.99	2.09	11.4	1.40	0.90	0.91	1.75	2.47	2.22			
95	4.19	3.39	3.14	2.72	1.89	1.53	2.08	2.56	2.62	2.85	1.84	1.16	1.30	2.28	3.33	2.95			
100	5.75	4.70	3.96	3.49	2.68	2.22	2.64	3.19	3.96	4.01	2.60	1.78	2.03	3.36	4.53	4.12			
105	6.61	5.40	4.44	3.93	3.20	2.68	2.97	3.52	4.69	4.60	3.14	2.26	2.60	4.15	5.21	4.63			
110	7.66	6.39	5.31	4.65	3.94	3.36	3.55	4.09	5.63	5.49	4.06	3.14	3.63	5.42	6.29	5.37			
115	8.38	7.04	5.96	5.19	4.37	3.82	4.00	4.54	6.28	6.19	4.72	3.83	4.38	6.26	7.04	6.01			
120	9.51	8.07	6.83	5.92	4.99	4.47	4.66	5.22	7.35	7.21	5.67	4.88	5.48	7.31	8.05	6.97			
125	10.1	8.67	7.28	6.23	5.35	4.87	5.04	5.55	7.94	7.75	6.28	5.55	6.16	7.84	8.65	7.44			
130	10.4	9.23	7.71	6.43	5.74	5.36	5.43	5.73	8.54	8.42	7.13	6.54	7.12	8.56	9.24	7.88			
135	10.4	9.37	7.85	6.52	5.92	5.62	5.64	5.80	8.83	8.73	7.60	7.15	7.73	8.90	9.37	8.01			
140	10.3	9.35	7.94	6.76	6.18	5.96	5.88	5.92	9.05	9.04	8.19	7.90	8.49	9.20	9.23	8.02			
145	10.2	9.29	8.04	6.96	6.38	6.14	6.00	6.01	9.01	9.12	8.50	8.29	8.81	9.24	9.01	7.84			
150	9.93	9.25	8.25	7.28	6.66	6.34	6.17	6.14	8.91	9.20	8.92	8.75	9.09	9.19	8.68	7.52			
155	9.79	9.28	8.42	7.50	6.84	6.50	6.31	6.24	8.92	9.27	9.16	9.00	9.21	9.10	8.52	7.41			
160	9.70	9.38	8.72	7.89	7.18	6.80	6.58	6.44	9.03	9.41	9.45	9.30	9.29	9.00	8.35	7.36			
165	9.67	9.47	8.96	8.20	7.45	7.04	6.77	6.62	9.15	9.52	9.61	9.43	9.28	8.92	8.28	7.37			
170	9.69	9.67	9.30	8.56	7.84	7.39	7.14	6.91	9.39	9.70	9.79	9.53	9.19	8.74	8.20	7.46			
175	9.72	9.76	9.47	8.81	8.14	7.67	7.38	7.08	9.53	9.79	9.79	9.42	8.97	8.51	8.01	7.42			
180	9.62	9.79	9.68	9.16	8.56	8.08	7.70	7.26	9.62	9.80	9.68	9.16	8.57	8.09	7.70	7.26			

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: