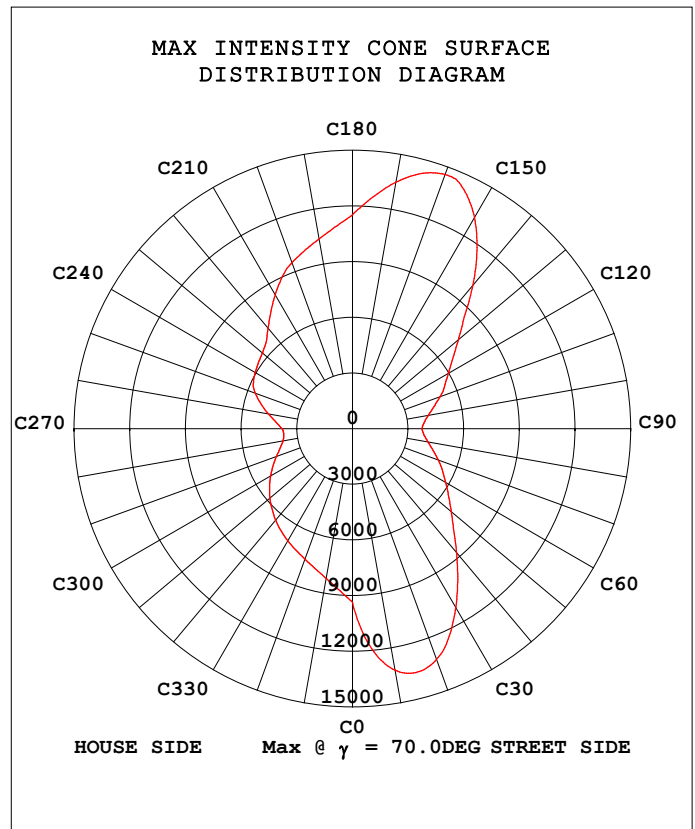
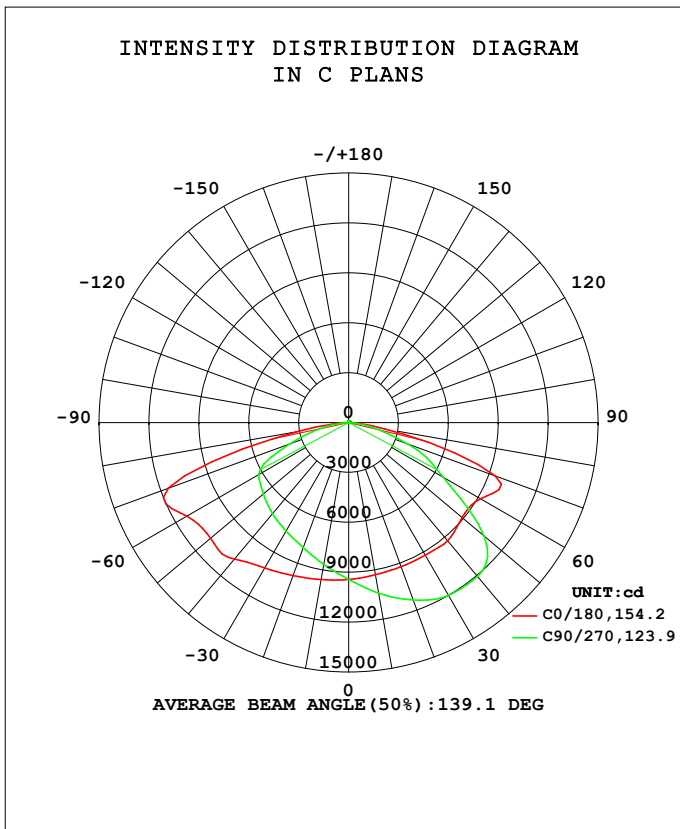


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:277.15V I:1.0867A P:298.21W PF:0.9901 Freq:50.00Hz		
UTHDi:1.33% ITHDi:3.34% KDisp:0.9980 Lamp Flux:46254.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 155.11 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-HV-XX	I _{max} (cd)	14563	η street_up (%)	0.4
NOMINAL POWER (W)	300	LOR (%)	100.0	η street_down (%)	56.8
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	46254	η house_up (%)	0.4
NOMINAL FLUX (lm)	46254.5	MAXIMUM @ (C, γ)	158,70.0	η house_down (%)	42.4
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	277	η down (%)	99.2	SLI	24.566



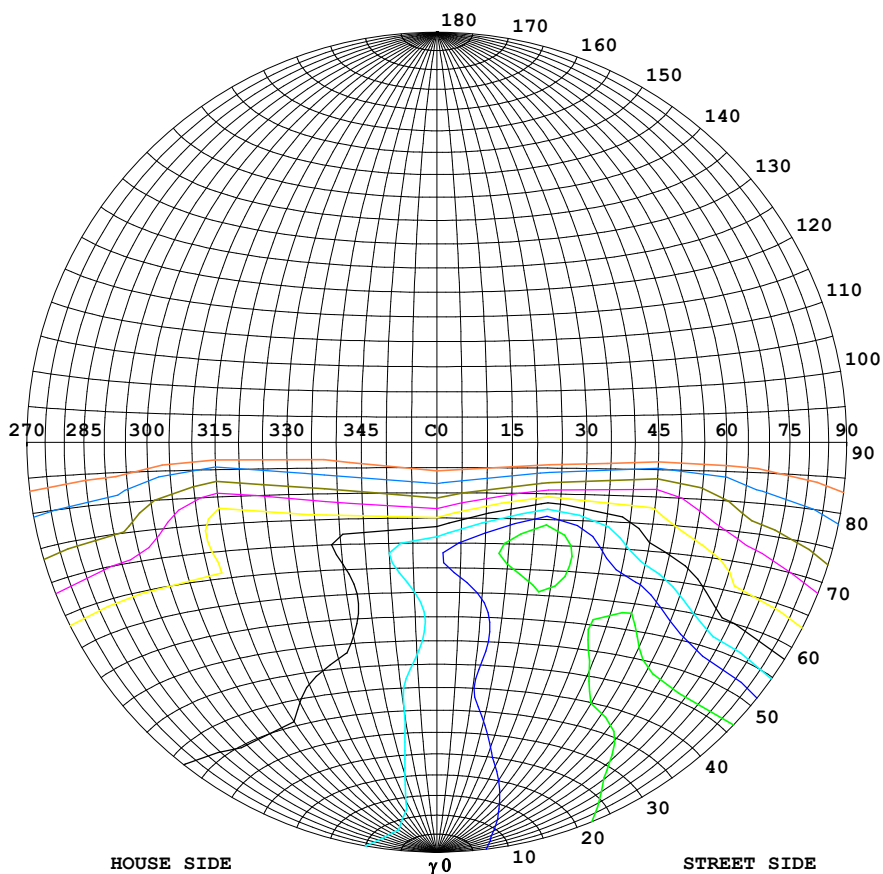
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

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:277.15V I:1.0867A P:298.21W PF:0.9901 Freq:50.00Hz UTHDi:1.33% ITHDi:3.34% KDisp:0.9980 Lamp Flux:46254.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

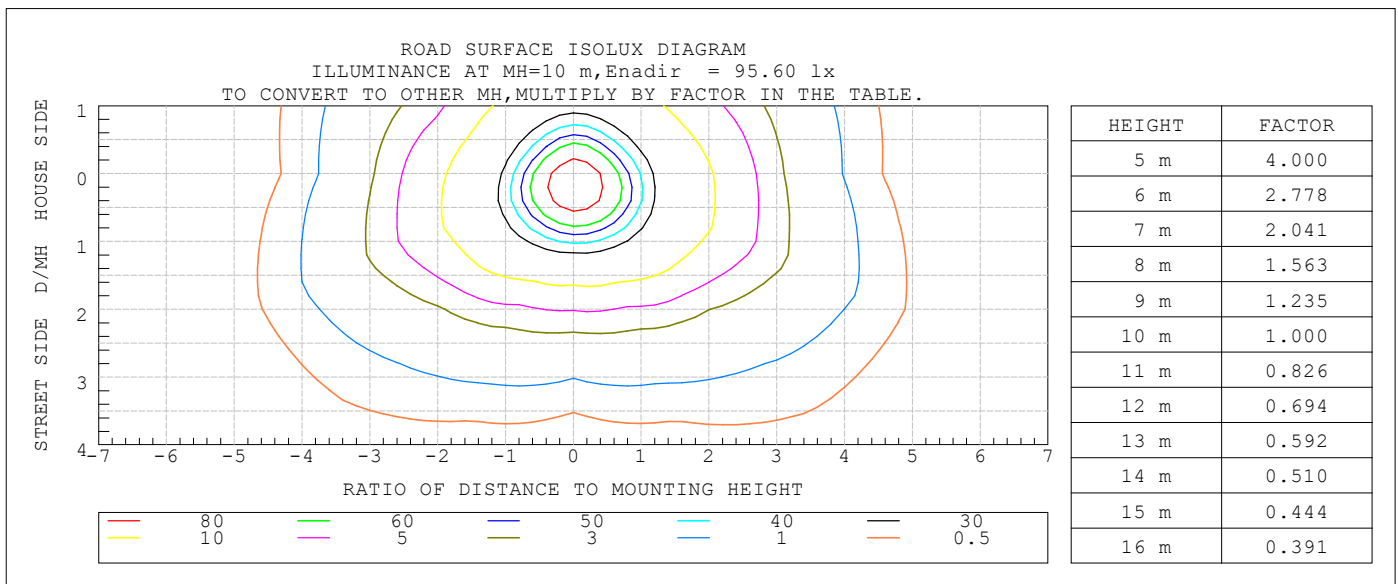
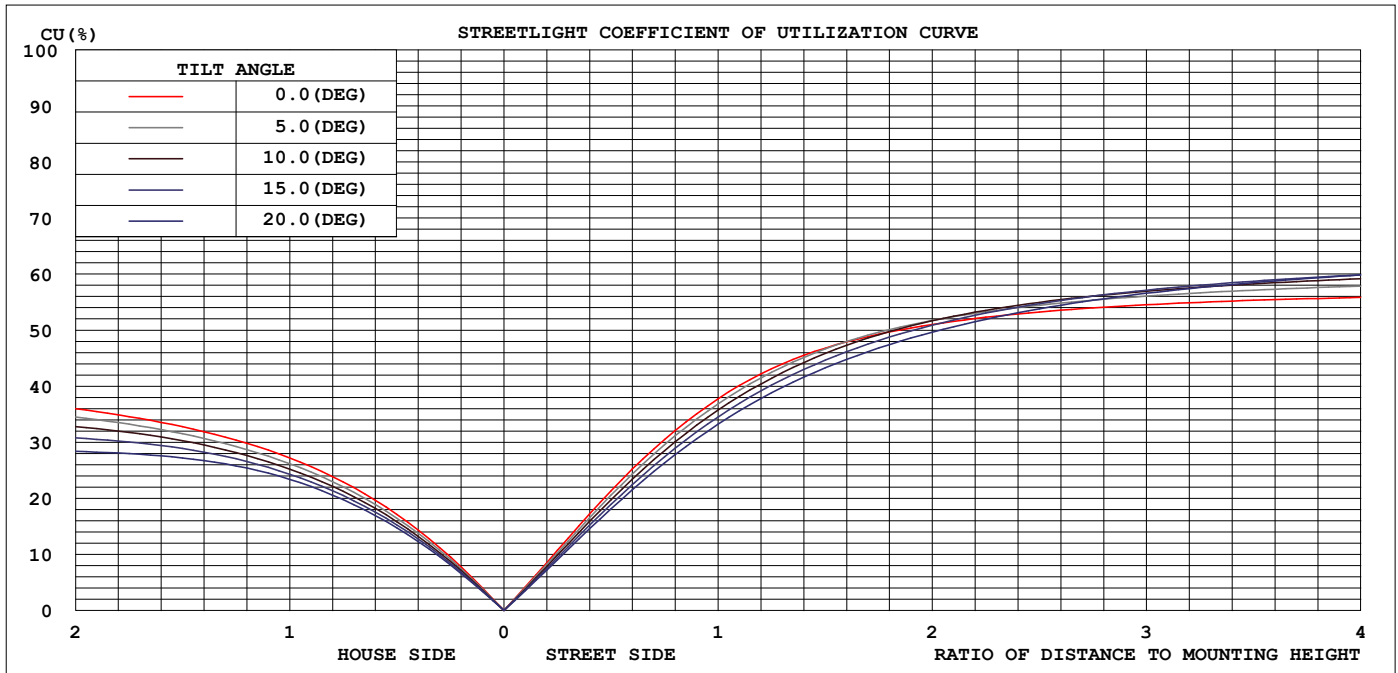
IES:Type IV - Medium
CIE:Average - Long
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:150.7cd/klm
Max.At90:14.56cd/klm
Max.80-90:150.7cd/klm

ISOCANDELA DIAGRAM		
UNIT		cd
Imax=100%		14563
90%		13107
80%		11650
70%		10194
60%		8738
50%		7282
40%		5825
30%		4369
20%		2913
10%		1456
5%		728

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:277.15V I:1.0867A P:298.21W PF:0.9901 Freq:50.00Hz UTHDi:1.33% ITHDi:3.34% KDisp:0.9980 Lamp Flux:46254.5x1 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	928.3	997.3	1041	1025	958.2	894.2	865.6	875.9	0- 10	902.9	902.9	1.95,1.95
20	921.9	1054	1135	1118	979.1	847.4	800.8	817.0	10- 20	2704	3607	7.8,7.8
30	920.8	1117	1199	1224	1010	803.1	753.9	768.0	20- 30	4477	8084	17.5,17.5
40	926.6	1161	1207	1315	1071	761.2	713.6	722.2	30- 40	6165	14249	30.8,30.8
50	890.7	1186	1062	1351	1084	723.1	670.0	665.0	40- 50	7567	21816	47.2,47.2
60	916.3	1127	653.4	1249	1125	660.4	624.2	607.7	50- 60	8147	29964	64.8,64.8
70	935.4	771.9	374.6	852.5	1152	658.5	379.9	613.8	60- 70	8140	38104	82.4,82.4
80	221.7	512.8	115.4	621.3	305.1	655.3	132.8	495.5	70- 80	6218	44322	95.8,95.8
90	3.128	2.912	1.556	67.36	2.036	1.342	0.8638	2.343	80- 90	1570	45892	99.2,99.2
100	5.593	3.790	2.535	2.512	3.778	2.438	1.932	4.354	90-100	33.23	45925	99.3,99.3
110	7.433	5.071	3.735	3.371	5.413	3.806	3.446	6.088	100-110	41.87	45967	99.4,99.4
120	9.250	6.533	4.742	4.414	7.064	5.364	5.253	7.789	110-120	53.62	46020	99.5,99.5
130	10.18	7.346	5.461	5.126	8.258	6.786	6.867	8.936	120-130	60.11	46080	99.6,99.6
140	10.01	7.570	5.891	5.548	8.768	7.833	8.220	8.932	130-140	57.57	46138	99.7,99.7
150	9.649	7.898	6.352	5.827	8.643	8.577	8.826	8.376	140-150	48.67	46187	99.9,99.9
160	9.408	8.378	6.872	6.226	8.747	9.123	9.033	8.016	150-160	36.71	46223	99.9,99.9
170	9.381	8.950	7.527	6.773	9.083	9.454	8.923	7.837	160-170	23.19	46246	100,100
180	9.301	9.331	8.263	7.318	9.299	9.334	8.275	7.323	170-180	7.994	46254	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

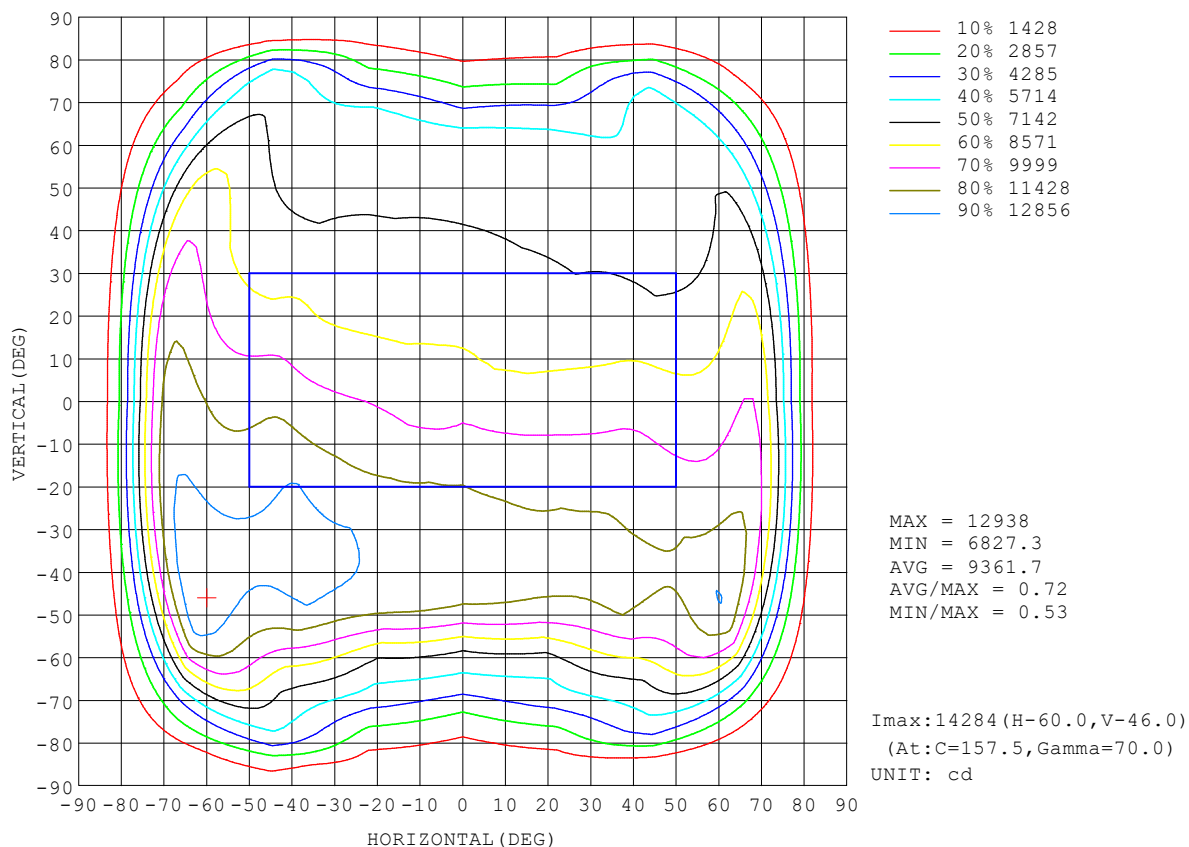
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 June 2025

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

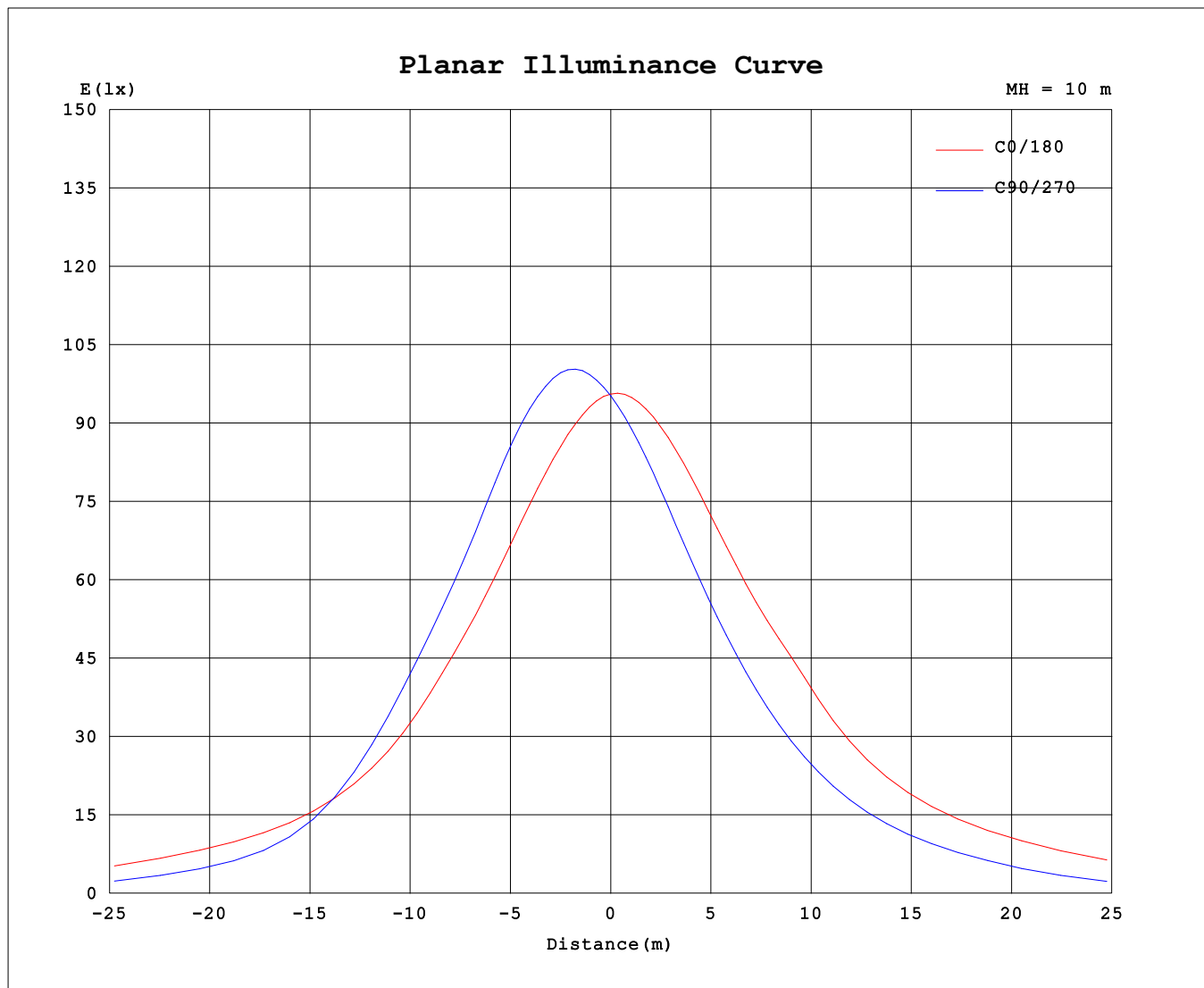
Test:U:277.15V I:1.0867A P:298.21W PF:0.9901 Freq:50.00Hz UTHDi:1.33% ITHDi:3.34% KDisp:0.9980 Lamp Flux:46254.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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

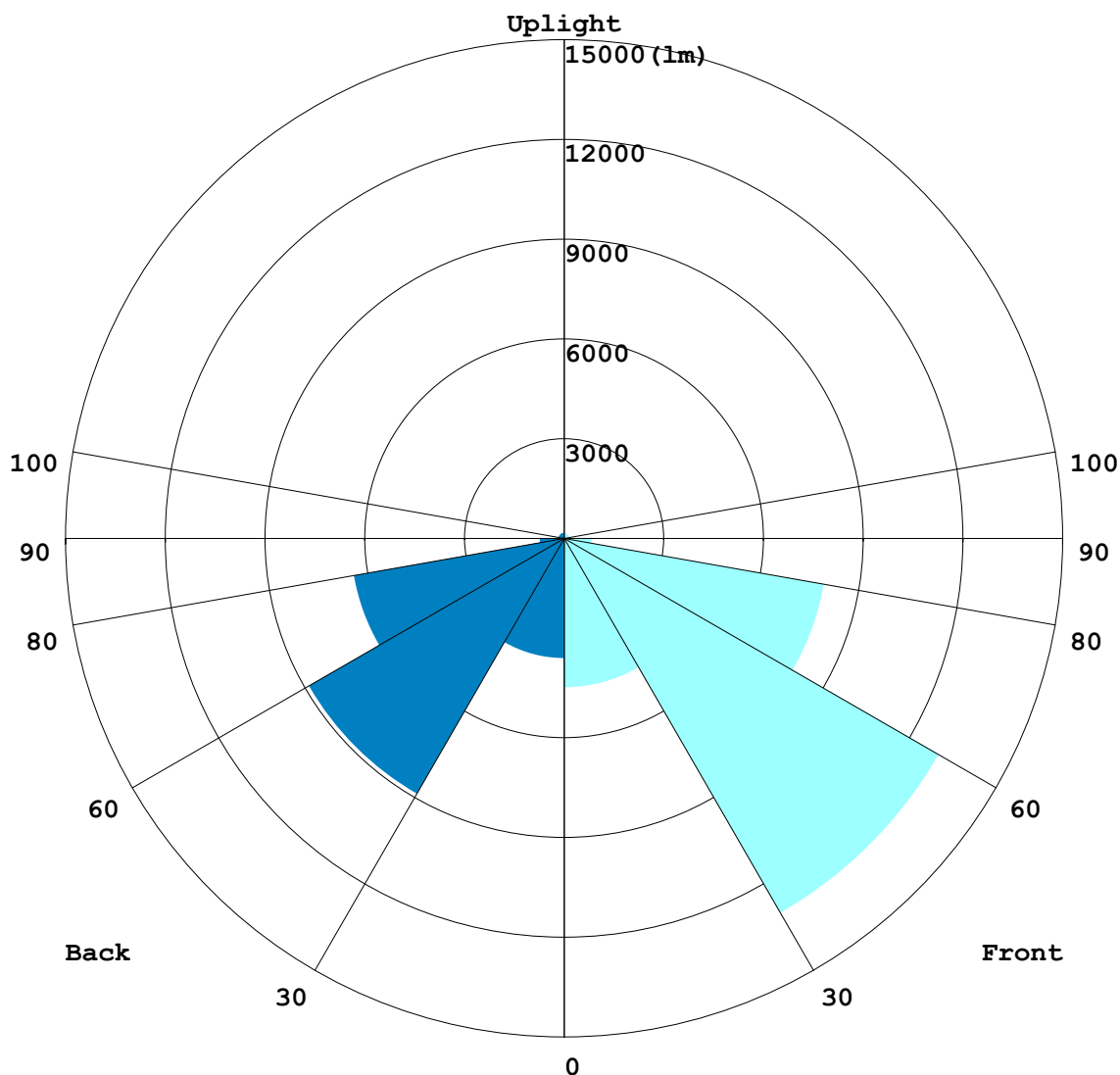
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:277.15V I:1.0867A P:298.21W PF:0.9901 Freq:50.00Hz		
UTHDi:1.33% ITHDi:3.34% KDisp:0.9980 Lamp Flux:46254.5x1 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: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:277.15V I:1.0867A P:298.21W PF:0.9901 Freq:50.00Hz UTHDi:1.33% ITHDi:3.34% KDisp:0.9980 Lamp Flux:46254.5x1 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)	4483	9.7
FM - Front-Medium(30-60)	13007	28.1
FH - Front-High(60-80)	7936.9	17.2
FVH - Front-Very High(80-90)	834.74	1.8
Total Forward Light	26439	57.2

BL - Back-Low(0-30)	3601	7.8
BM - Back-Medium(30-60)	8872.2	19.2
BH - Back-High(60-80)	6421.1	13.9
BVH - Back-Very High(80-90)	735.27	1.6
Total Back Light	19816	42.8

UL - Uplight-Low(90-100)	33.23	0.1
UH - Uplight-High(100-180)	329.73	0.7
Total Up Light	362.96	0.8

BUG(Back,Up,Glare) Rating	B5-U3-G5
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	19630	186.23	19816
Street Side	26262	176.73	26439

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

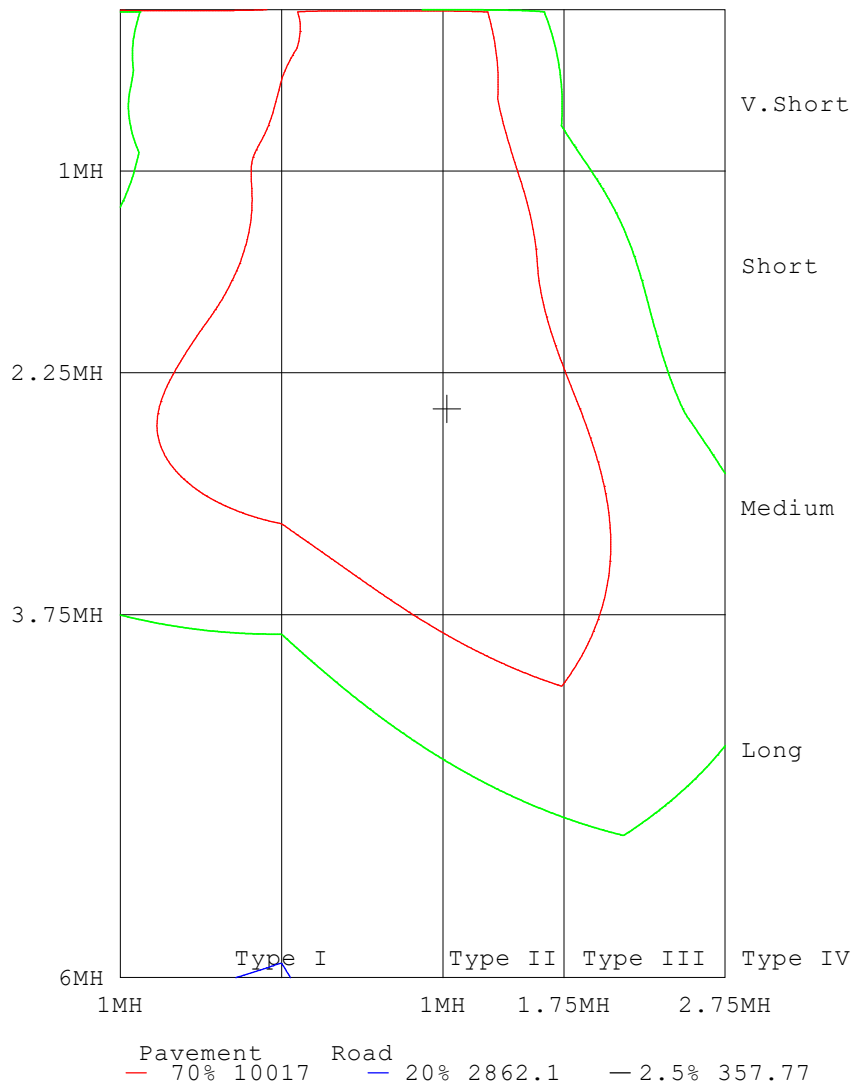
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:277.15V I:1.0867A P:298.21W PF:0.9901 Freq:50.00Hz UTHDi:1.33% ITHDi:3.34% KDisp:0.9980 Lamp Flux:46254.5x1 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: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:277.15V I:1.0867A P:298.21W PF:0.9901 Freq:50.00Hz		
UTHDi:1.33% ITHDi:3.34% KDisp:0.9980 Lamp Flux:46254.5x1 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	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943			
5	937	951	964	974	981	981	974	963	950	935	923	915	910	910	915	925			
10	928	964	997	1024	1041	1043	1025	994	958	922	894	875	866	865	876	898			
15	924	975	1020	1057	1081	1085	1061	1018	965	914	875	851	838	837	851	882			
20	922	994	1054	1101	1135	1145	1118	1058	979	902	847	816	801	799	817	860			
25	921	1010	1077	1128	1168	1183	1157	1090	990	894	829	795	780	777	796	846			
30	921	1038	1117	1158	1199	1233	1224	1145	1010	881	803	769	754	751	768	825			
35	923	1063	1142	1163	1204	1250	1271	1190	1027	874	786	754	737	735	750	812			
40	927	1106	1161	1167	1207	1261	1315	1278	1071	875	761	731	714	710	722	794			
45	914	1110	1171	1166	1187	1261	1329	1320	1097	880	749	714	697	691	703	770			
50	891	1106	1186	1107	1062	1195	1351	1312	1084	847	723	684	670	657	665	728			
55	886	1113	1191	990	898	1068	1346	1317	1084	831	694	666	652	637	640	706			
60	916	1151	1127	736	653	797	1249	1359	1125	841	660	646	624	616	608	685			
65	968	1206	1005	613	556	656	1104	1407	1182	880	648	643	565	595	595	691			
70	935	1288	772	515	375	528	853	1456	1152	932	659	578	380	455	614	735			
75	665	1155	663	396	246	400	732	1354	856	821	689	449	273	326	643	677			
80	222	511	513	203	115	206	621	697	305	383	655	251	133	175	495	355			
85	80.8	150	233	104	56.3	108	388	286	102	149	331	144	55.7	81.7	231	131			
90	3.13	2.63	2.91	2.54	1.56	5.45	67.4	3.68	2.04	10.5	1.34	0.83	0.86	1.68	2.34	2.11			
95	4.06	3.28	3.02	2.58	1.79	1.45	1.99	2.43	2.48	2.68	1.75	1.09	1.23	2.19	3.19	2.84			
100	5.59	4.52	3.79	3.32	2.54	2.09	2.51	3.03	3.78	3.79	2.44	1.67	1.93	3.21	4.35	3.98			
105	6.41	5.18	4.25	3.74	3.03	2.53	2.82	3.35	4.50	4.36	2.94	2.12	2.47	3.98	5.03	4.47			
110	7.43	6.13	5.07	4.43	3.74	3.18	3.37	3.88	5.41	5.21	3.81	2.95	3.45	5.21	6.09	5.17			
115	8.14	6.76	5.70	4.92	4.15	3.61	3.79	4.31	6.04	5.89	4.45	3.61	4.18	6.05	6.80	5.78			
120	9.25	7.78	6.53	5.61	4.74	4.21	4.41	4.95	7.06	6.88	5.36	4.63	5.25	7.07	7.79	6.71			
125	9.83	8.36	6.96	5.91	5.09	4.59	4.76	5.25	7.65	7.39	5.96	5.29	5.92	7.60	8.37	7.16			
130	10.2	8.91	7.35	6.10	5.46	5.06	5.13	5.42	8.26	8.05	6.79	6.24	6.87	8.30	8.94	7.57			
135	10.2	9.03	7.48	6.19	5.64	5.32	5.33	5.48	8.55	8.36	7.24	6.84	7.47	8.63	9.06	7.68			
140	10.0	9.01	7.57	6.43	5.89	5.63	5.55	5.60	8.77	8.68	7.83	7.60	8.22	8.92	8.93	7.69			
145	9.88	8.96	7.67	6.63	6.08	5.80	5.66	5.68	8.74	8.77	8.15	7.98	8.54	8.96	8.70	7.51			
150	9.65	8.93	7.90	6.94	6.35	6.00	5.83	5.81	8.64	8.88	8.58	8.43	8.83	8.91	8.38	7.19			
155	9.51	8.96	8.07	7.15	6.54	6.16	5.96	5.91	8.64	8.95	8.82	8.69	8.95	8.82	8.20	7.08			
160	9.41	9.06	8.38	7.54	6.87	6.45	6.23	6.09	8.75	9.10	9.12	8.99	9.03	8.71	8.02	7.02			
165	9.37	9.14	8.61	7.85	7.14	6.69	6.41	6.26	8.86	9.21	9.28	9.12	9.02	8.60	7.94	7.03			
170	9.38	9.34	8.95	8.22	7.53	7.04	6.77	6.54	9.08	9.38	9.45	9.21	8.92	8.41	7.84	7.10			
175	9.41	9.43	9.12	8.47	7.83	7.32	7.01	6.71	9.21	9.46	9.45	9.10	8.69	8.18	7.64	7.06			
180	9.30	9.46	9.33	8.82	8.26	7.74	7.32	6.89	9.30	9.46	9.33	8.83	8.28	7.75	7.32	6.90			

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: