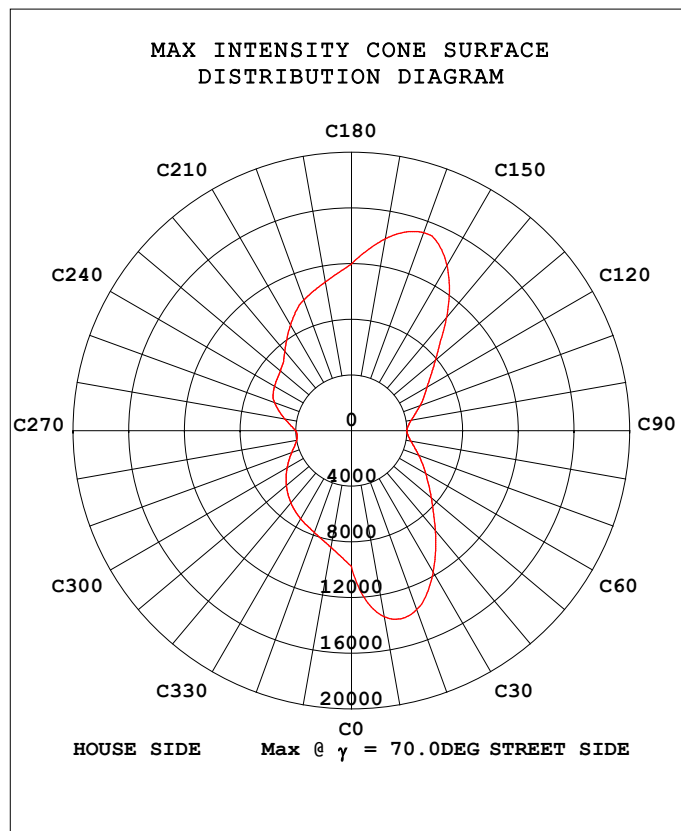
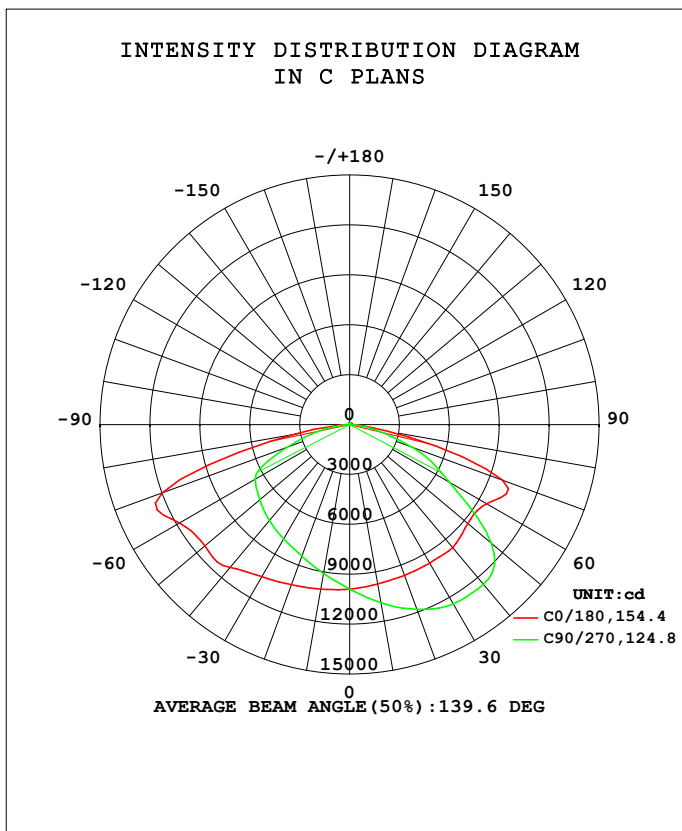


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:277.04V I:1.0596A P:290.49W PF:0.9896 Freq:50.00Hz		
UTHDi:1.28% ITHDi:3.65% KDisp:0.9979 Lamp Flux:48378.4x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 166.54 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-HV-XX	Imax (cd)	15139	η street_up (%)	0.4
NOMINAL POWER (W)	300	LOR (%)	100.0	η street_down (%)	56.6
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	48378	η house_up (%)	0.4
NOMINAL FLUX (lm)	48378.4	MAXIMUM @ (C, γ)	158,70.0	η house_down (%)	42.6
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	277	η down (%)	99.2	SLI	24.668



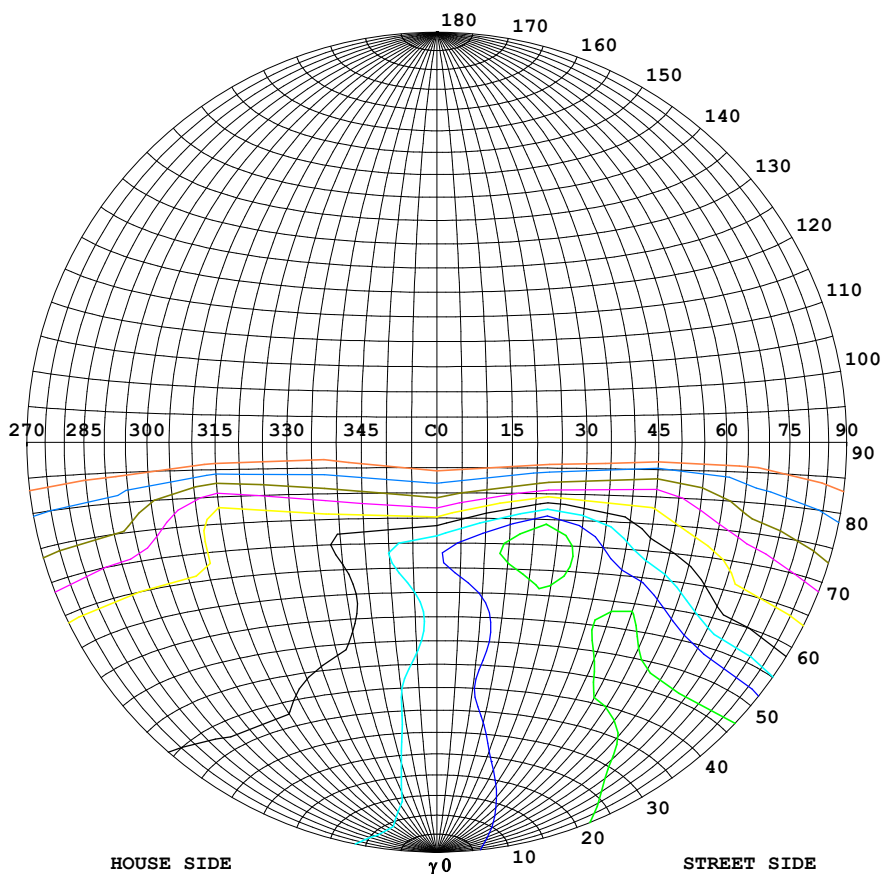
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

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:277.04V I:1.0596A P:290.49W PF:0.9896 Freq:50.00Hz		
UTHDi:1.28% ITHDi:3.65% KDisp:0.9979 Lamp Flux:48378.4x1 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.At80:151.7cd/klm
Max.At90:14.70cd/klm
Max.80-90:151.7cd/klm

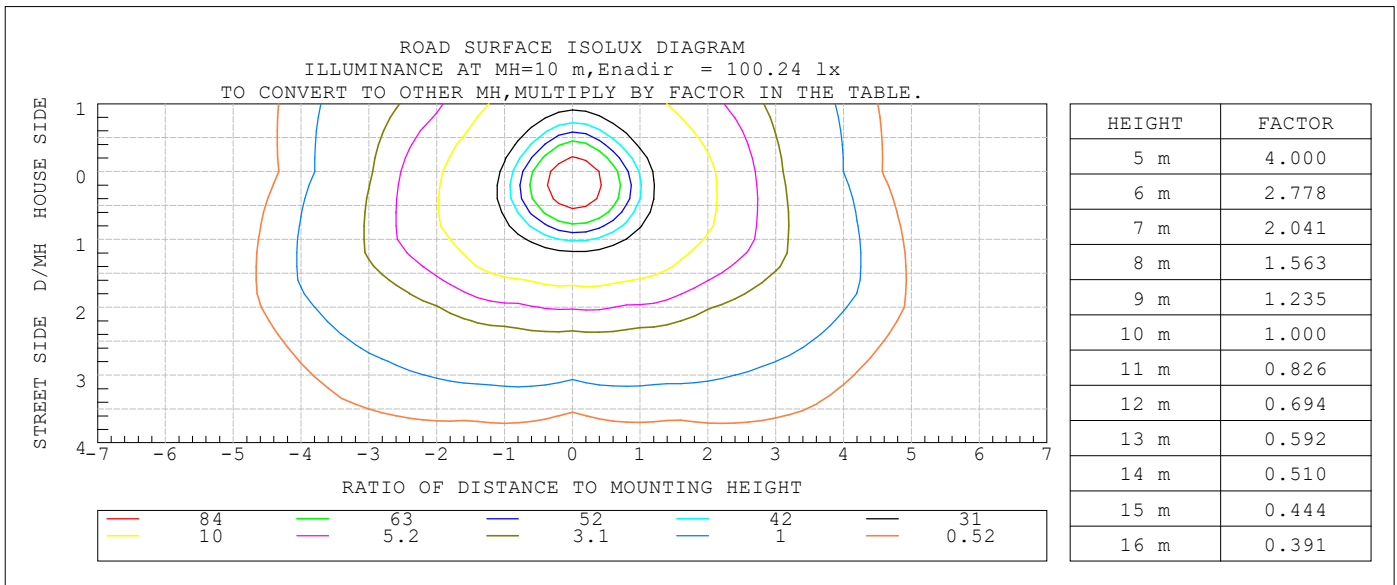
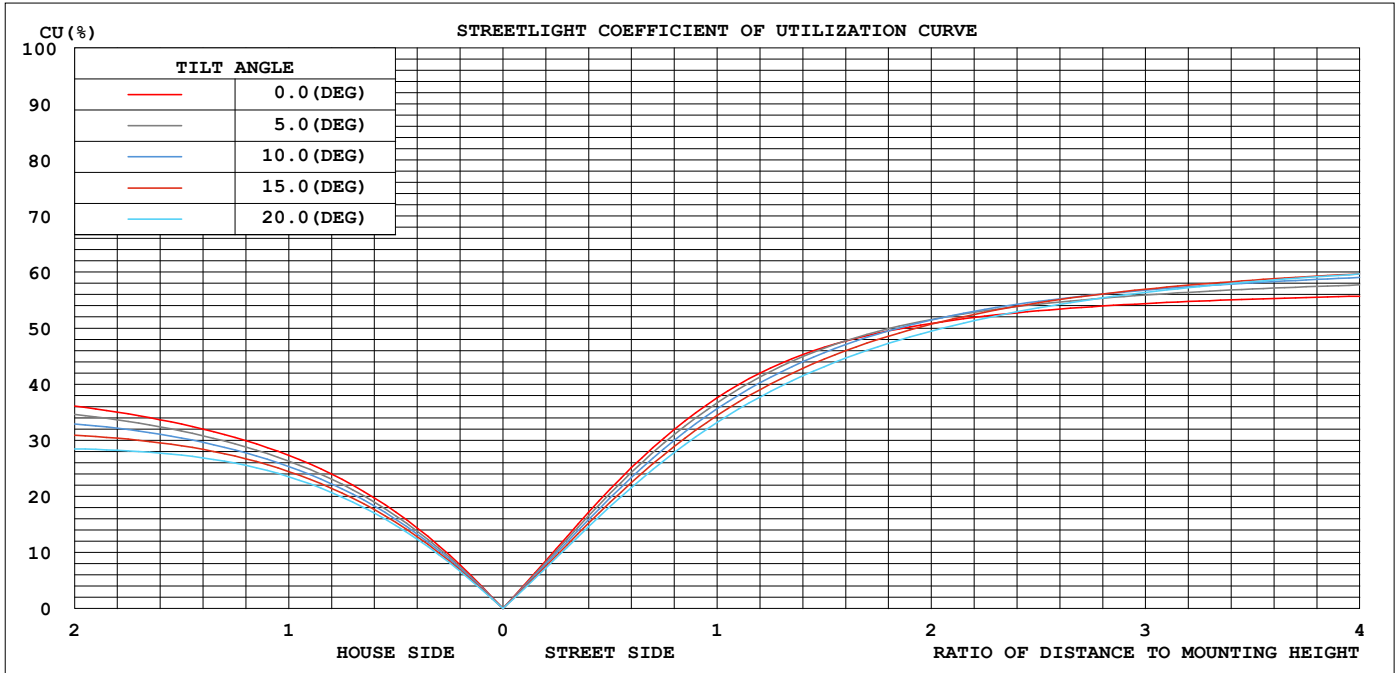
ISOCANDELA DIAGRAM		
UNIT		cd
I _{max} =100%		15139
90%		13625
80%		12112
70%		10598
60%		9084
50%		7570
40%		6056
30%		4542
20%		3028
10%		1514
5%		757

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:277.04V I:1.0596A P:290.49W PF:0.9896 Freq:50.00Hz		
UTHDi:1.28% ITHDi:3.65% KDisp:0.9979 Lamp Flux:48378.4x1 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	972.5	1043	1088	1072	1004	937.8	908.5	918.9	0- 10	945.9	945.9	1.96,1.96
20	964.2	1100	1182	1166	1025	889.8	841.6	858.2	10- 20	2830	3776	7.81,7.81
30	961.7	1161	1245	1271	1057	844.2	793.4	807.4	20- 30	4679	8455	17.5,17.5
40	964.9	1205	1253	1364	1121	800.9	752.5	759.3	30- 40	6435	14890	30.8,30.8
50	927.1	1229	1114	1399	1137	761.2	705.7	699.4	40- 50	7896	22786	47.1,47.1
60	951.4	1183	690.9	1298	1183	696.8	657.1	639.0	50- 60	8527	31313	64.7,64.7
70	978.1	833.7	397.7	902.8	1199	693.8	402.0	646.4	60- 70	8534	39847	82.4,82.4
80	236.0	534.0	123.6	637.1	328.4	682.1	140.7	516.5	70- 80	6519	46366	95.8,95.8
90	3.255	3.051	1.618	71.14	2.098	1.403	0.9088	2.460	80- 90	1633	47999	99.2,99.2
100	5.810	3.966	2.672	2.634	3.959	2.578	2.029	4.546	90-100	34.87	48034	99.3,99.3
110	7.729	5.310	3.927	3.542	5.653	4.027	3.620	6.338	100-110	43.87	48077	99.4,99.4
120	9.606	6.843	4.982	4.645	7.378	5.647	5.495	8.110	110-120	56.13	48134	99.5,99.5
130	10.56	7.708	5.733	5.401	8.602	7.125	7.161	9.303	120-130	62.88	48196	99.6,99.6
140	10.39	7.941	6.181	5.849	9.124	8.203	8.557	9.300	130-140	60.20	48257	99.7,99.7
150	10.03	8.267	6.661	6.144	8.990	8.959	9.172	8.737	140-150	50.86	48308	99.9,99.9
160	9.787	8.756	7.197	6.552	9.103	9.511	9.379	8.379	150-160	38.34	48346	99.9,99.9
170	9.768	9.345	7.867	7.125	9.460	9.853	9.276	8.209	160-170	24.22	48370	100,100
180	9.688	9.735	8.615	7.688	9.685	9.737	8.625	7.693	170-180	8.351	48378	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

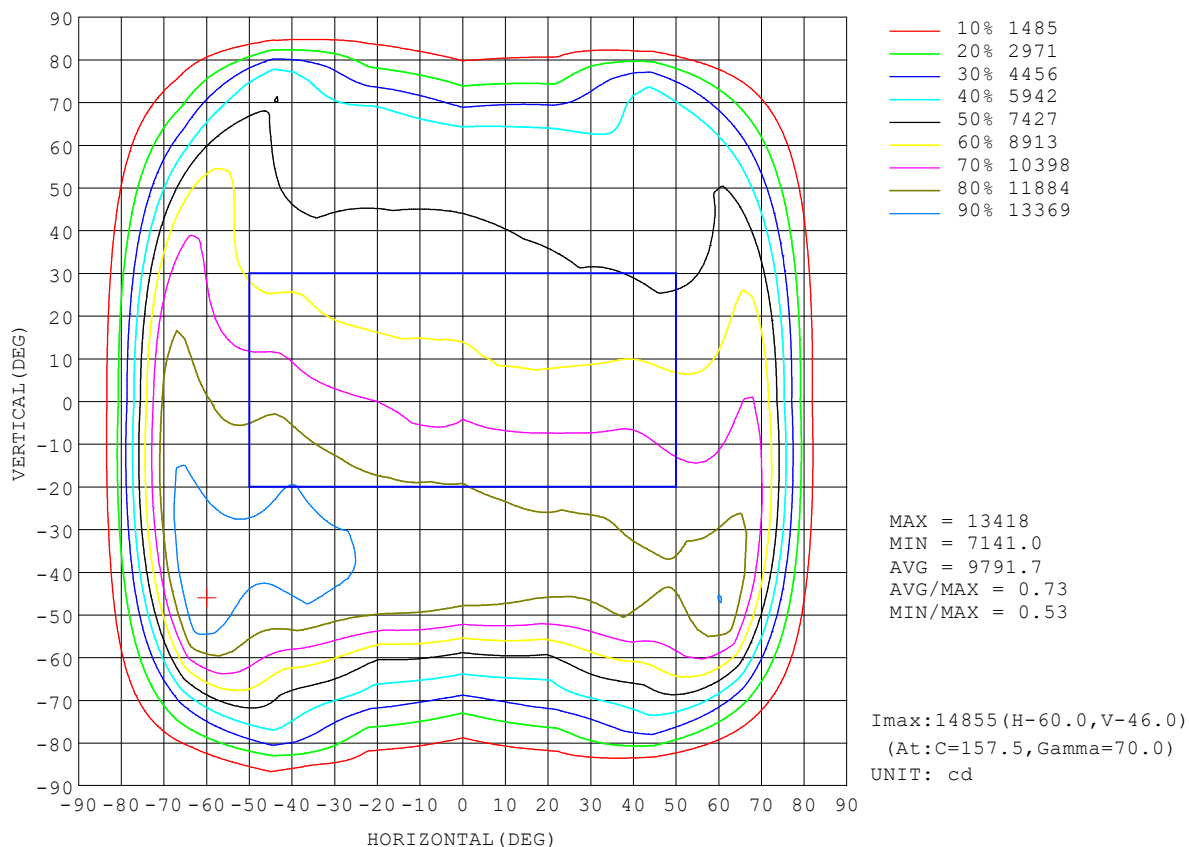
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

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

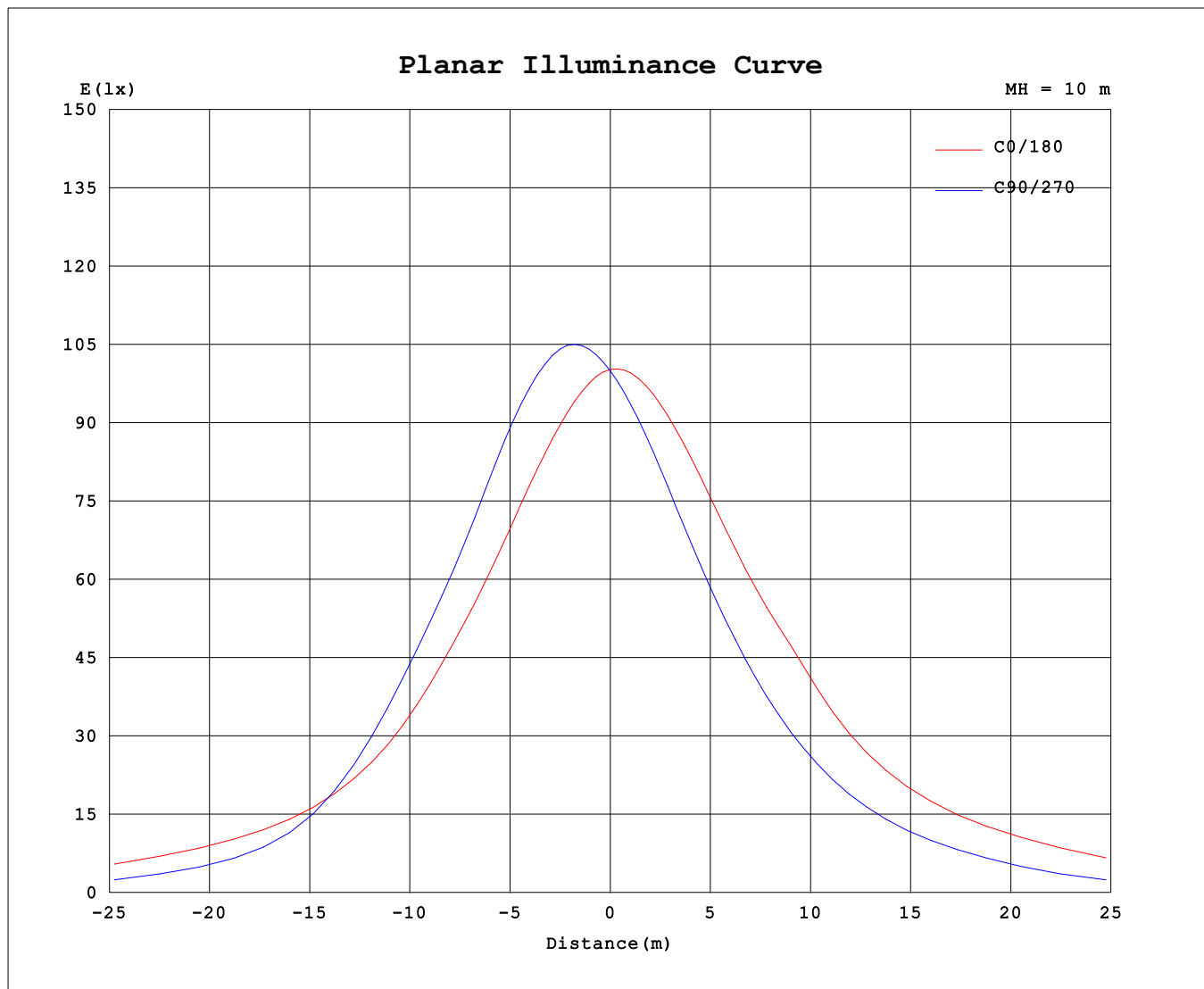
Test:U:277.04V I:1.0596A P:290.49W PF:0.9896 Freq:50.00Hz UTHDi:1.28% ITHDi:3.65% KDisp:0.9979 Lamp Flux:48378.4x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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

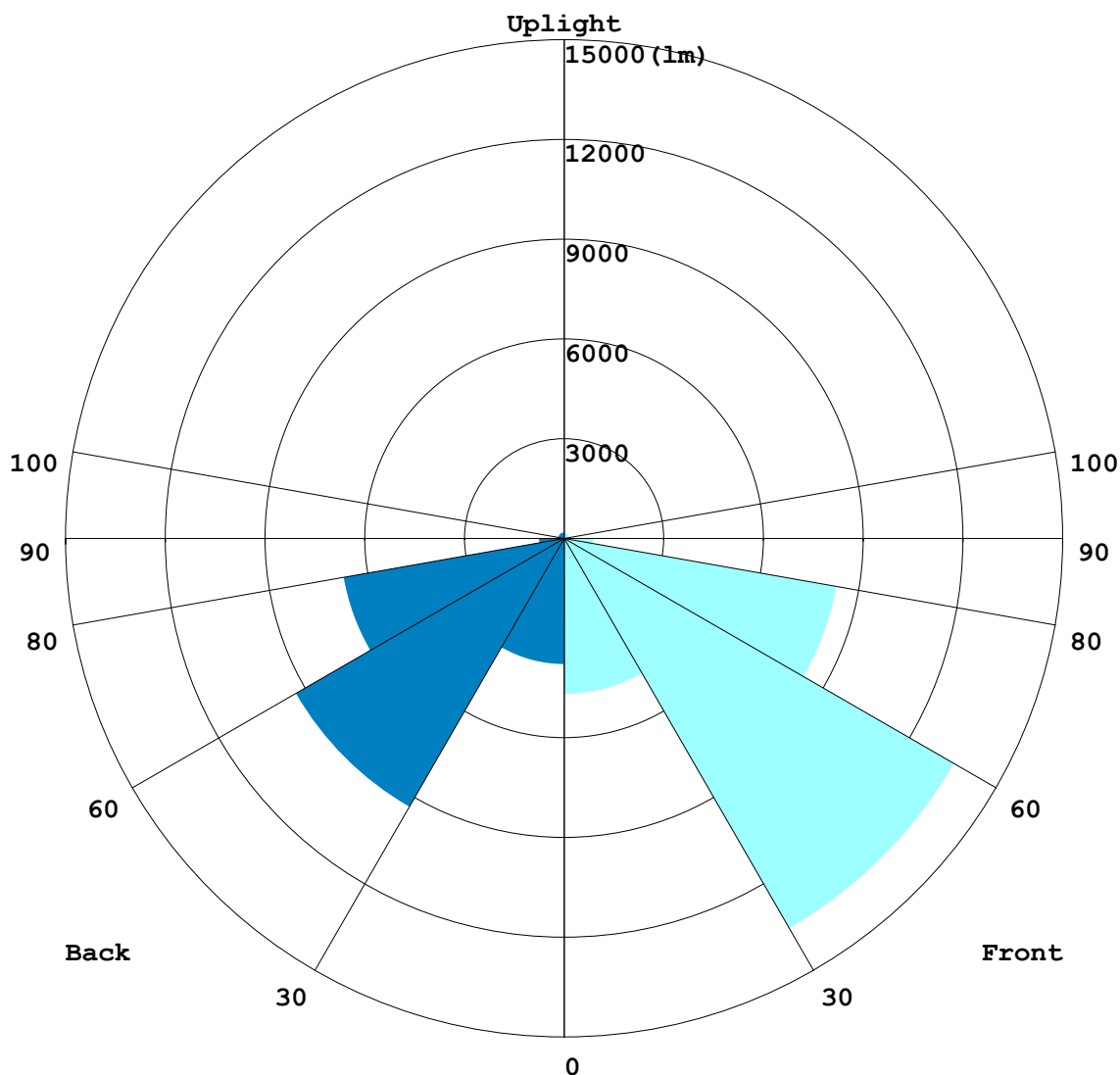
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:277.04V I:1.0596A P:290.49W PF:0.9896 Freq:50.00Hz		
UTHDi:1.28% ITHDi:3.65% KDisp:0.9979 Lamp Flux:48378.4x1 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:277.04V I:1.0596A P:290.49W PF:0.9896 Freq:50.00Hz UTHDi:1.28% ITHDi:3.65% KDisp:0.9979 Lamp Flux:48378.4x1 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)	4675.6	9.7
FM - Front-Medium(30-60)	13534	28.0
FH - Front-High(60-80)	8313.6	17.2
FVH - Front-Very High(80-90)	875.5	1.8
Total Forward Light	27584	57.0

BL - Back-Low(0-30)	3779.2	7.8
BM - Back-Medium(30-60)	9324.9	19.3
BH - Back-High(60-80)	6738.9	13.9
BVH - Back-Very High(80-90)	757.22	1.6
Total Back Light	20795	43.0

UL - Uplight-Low(90-100)	34.867	0.1
UH - Uplight-High(100-180)	344.85	0.7
Total Up Light	379.72	0.8

BUG(Back,Up,Glare) Rating	B5-U3-G5
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	20600	194.59	20795
Street Side	27398	185.13	27584

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]

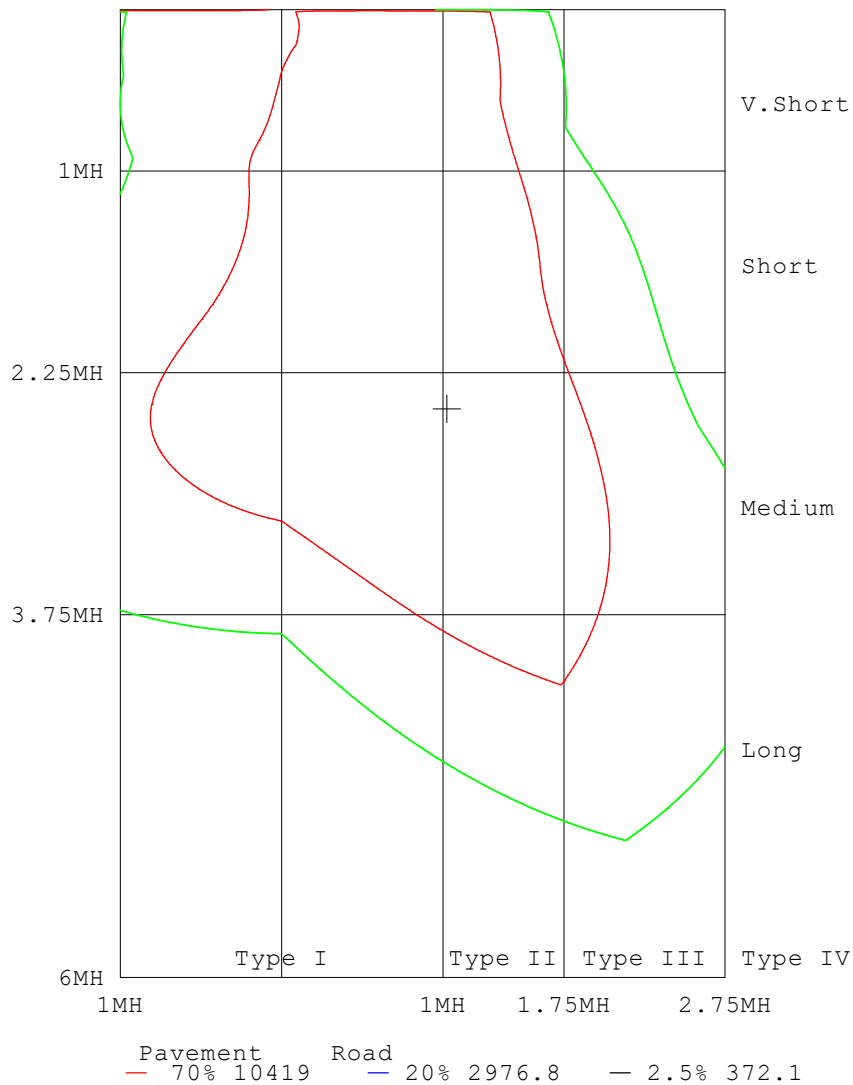
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:277.04V I:1.0596A P:290.49W PF:0.9896 Freq:50.00Hz UTHDi:1.28% ITHDi:3.65% KDisp:0.9979 Lamp Flux:48378.4x1 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:277.04V I:1.0596A P:290.49W PF:0.9896 Freq:50.00Hz		
UTHDi:1.28% ITHDi:3.65% KDisp:0.9979 Lamp Flux:48378.4x1 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	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989	989			
5	982	997	1010	1020	1027	1027	1020	1009	995	980	968	959	954	954	959	969			
10	973	1010	1043	1071	1088	1090	1072	1041	1004	966	938	919	908	907	919	942			
15	968	1020	1066	1103	1128	1133	1109	1064	1011	958	918	894	880	879	894	925			
20	964	1039	1100	1147	1182	1193	1166	1105	1025	946	890	858	842	839	858	901			
25	963	1054	1122	1174	1214	1230	1205	1137	1036	937	871	836	820	817	837	886			
30	962	1081	1161	1204	1245	1281	1271	1193	1057	925	844	809	793	790	807	864			
35	963	1105	1186	1209	1250	1298	1318	1238	1075	918	827	794	777	774	788	850			
40	965	1147	1205	1212	1253	1310	1364	1326	1121	919	801	769	753	748	759	830			
45	951	1151	1214	1211	1235	1310	1379	1368	1148	925	789	752	734	727	739	805			
50	927	1145	1229	1156	1114	1247	1399	1363	1137	891	761	721	706	692	699	762			
55	922	1152	1238	1043	949	1122	1394	1368	1139	876	732	701	686	670	673	738			
60	951	1189	1183	785	691	844	1298	1408	1183	889	697	680	657	646	639	715			
65	1006	1245	1068	648	584	691	1155	1457	1244	932	683	675	596	624	626	720			
70	978	1337	834	539	398	552	903	1514	1199	980	694	610	402	477	646	767			
75	702	1208	707	421	263	421	774	1397	883	842	727	478	289	342	675	711			
80	236	531	534	219	124	218	637	734	328	400	682	270	141	183	516	372			
85	84.5	161	241	114	60.3	116	401	308	112	160	344	156	60.0	84.3	161	136			
90	3.26	2.77	3.05	2.59	1.62	5.88	71.1	3.82	2.10	11.2	1.40	0.88	0.91	1.76	2.46	2.20			
95	4.22	3.41	3.16	2.71	1.89	1.52	2.09	2.55	2.61	2.83	1.84	1.15	1.29	2.30	3.34	2.96			
100	5.81	4.72	3.97	3.48	2.67	2.21	2.63	3.18	3.96	4.00	2.58	1.77	2.03	3.36	4.55	4.14			
105	6.67	5.42	4.45	3.93	3.19	2.66	2.96	3.51	4.70	4.59	3.11	2.24	2.60	4.16	5.25	4.65			
110	7.73	6.41	5.31	4.65	3.93	3.35	3.54	4.07	5.65	5.48	4.03	3.12	3.62	5.44	6.34	5.40			
115	8.46	7.07	5.97	5.18	4.36	3.80	3.99	4.53	6.31	6.18	4.69	3.81	4.38	6.31	7.09	6.04			
120	9.61	8.12	6.84	5.90	4.98	4.44	4.64	5.20	7.38	7.22	5.65	4.87	5.49	7.36	8.11	7.00			
125	10.2	8.73	7.29	6.22	5.34	4.84	5.02	5.53	7.98	7.75	6.27	5.55	6.19	7.90	8.72	7.48			
130	10.6	9.29	7.71	6.41	5.73	5.33	5.40	5.71	8.60	8.44	7.13	6.55	7.16	8.63	9.30	7.91			
135	10.6	9.43	7.85	6.51	5.92	5.60	5.61	5.77	8.90	8.76	7.60	7.16	7.78	8.97	9.44	8.03			
140	10.4	9.41	7.94	6.76	6.18	5.93	5.85	5.90	9.12	9.07	8.20	7.94	8.56	9.28	9.30	8.04			
145	10.3	9.35	8.04	6.96	6.38	6.11	5.97	5.98	9.09	9.17	8.53	8.33	8.89	9.32	9.07	7.86			
150	10.0	9.31	8.27	7.28	6.66	6.32	6.14	6.12	8.99	9.26	8.96	8.80	9.17	9.26	8.74	7.53			
155	9.89	9.35	8.44	7.50	6.85	6.48	6.28	6.22	8.99	9.33	9.21	9.06	9.30	9.18	8.56	7.42			
160	9.79	9.44	8.76	7.90	7.20	6.78	6.55	6.42	9.10	9.48	9.51	9.36	9.38	9.06	8.38	7.36			
165	9.75	9.53	8.99	8.21	7.47	7.03	6.75	6.59	9.22	9.60	9.67	9.50	9.37	8.97	8.30	7.37			
170	9.77	9.74	9.34	8.59	7.87	7.39	7.13	6.88	9.46	9.77	9.85	9.59	9.28	8.78	8.21	7.45			
175	9.80	9.82	9.52	8.85	8.18	7.67	7.37	7.07	9.60	9.86	9.85	9.49	9.04	8.54	8.01	7.41			
180	9.69	9.86	9.74	9.20	8.62	8.10	7.69	7.25	9.68	9.86	9.74	9.21	8.62	8.11	7.69	7.25			

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: