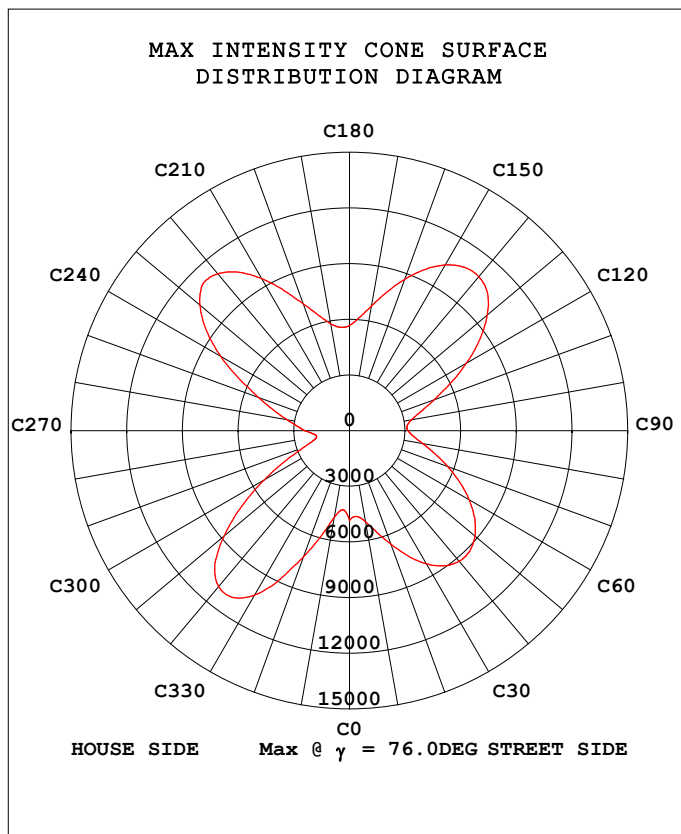
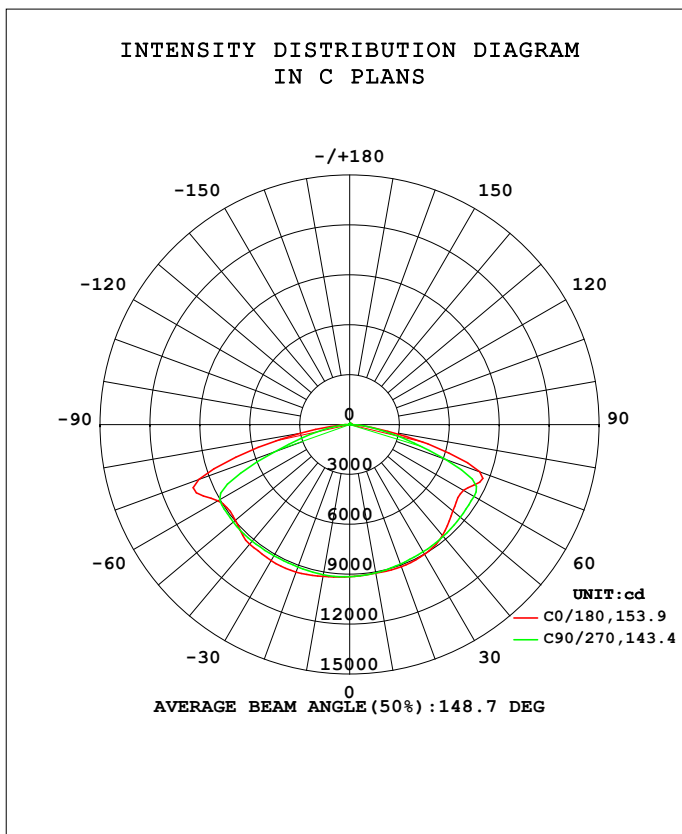


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:277.05V I:1.1378A P:312.26W PF:0.9905 Freq:50.00Hz		
UTHDi:1.51% ITHDi:3.44% KDisp:0.9982 Lamp Flux:46579.2x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 149.17 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-HV-XX	I _{max} (cd)	11189	η street_up (%)	0.4
NOMINAL POWER (W)	300	LOR (%)	100.0	η street_down (%)	49.3
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	46579	η house_up (%)	0.4
NOMINAL FLUX (lm)	46579.2	MAXIMUM @ (C, γ)	225,76.0	η house_down (%)	50.0
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	277	η down (%)	99.2	SLI	24.639



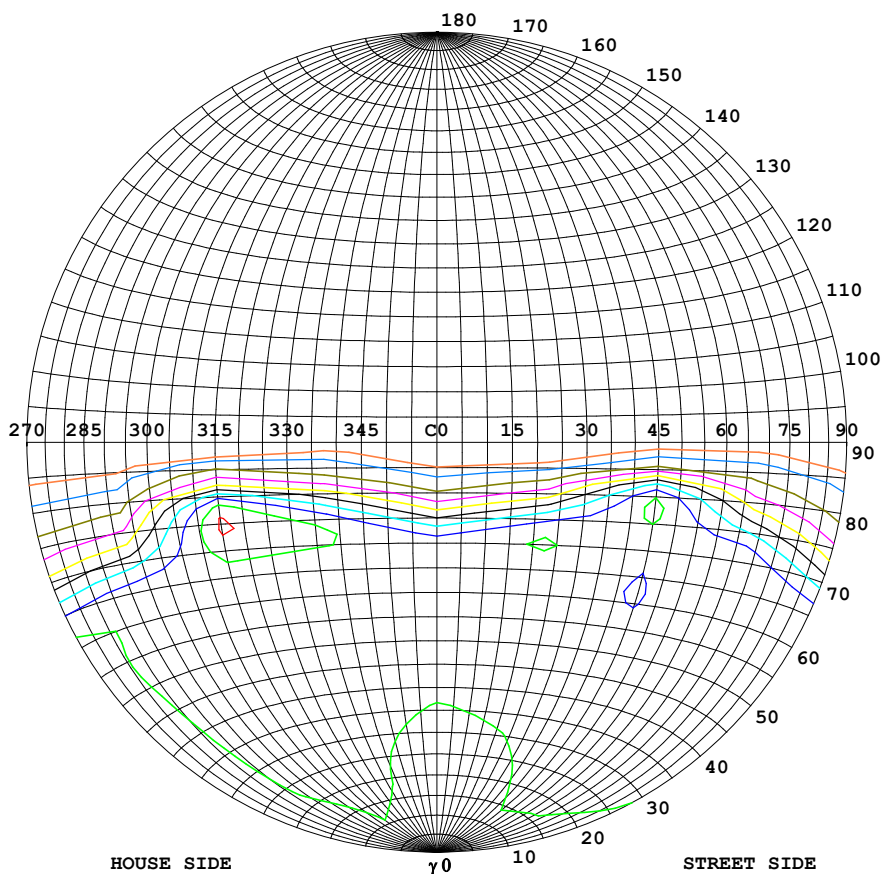
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 June 2025

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=1.0152]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:277.05V I:1.1378A P:312.26W PF:0.9905 Freq:50.00Hz		
UTHDi:1.51% ITHDi:3.44% KDisp:0.9982 Lamp Flux:46579.2x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type VS - Medium
 CIE:Broad - Long
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:225.5cd/klm
 Max.At90:6.334cd/klm
 Max.80-90:225.5cd/klm

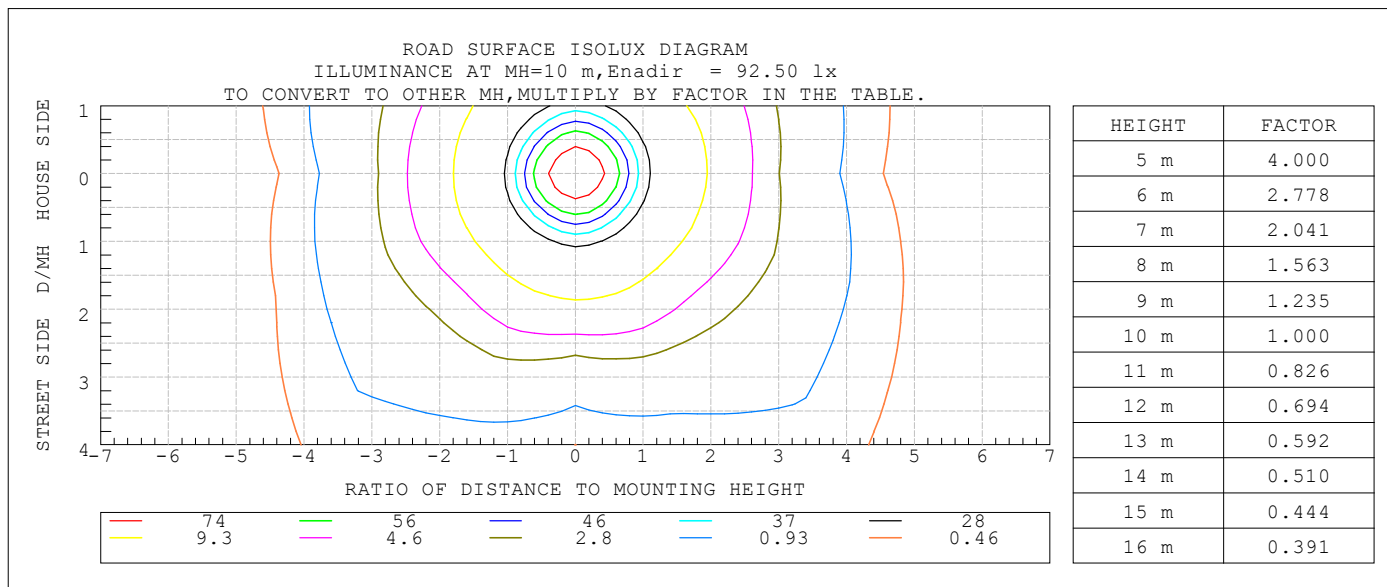
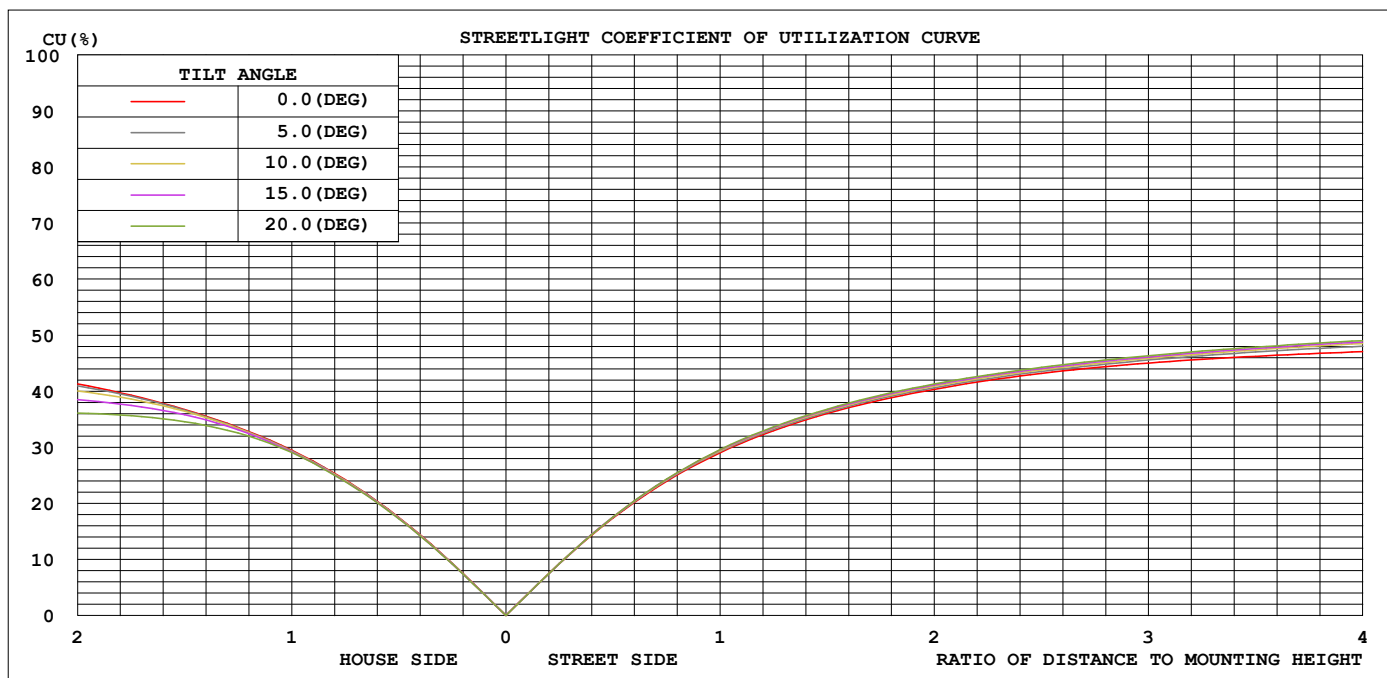
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	11189
90%	10070
80%	8951
70%	7832
60%	6713
50%	5595
40%	4476
30%	3357
20%	2238
10%	1119
5%	559

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 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=1.0152]
 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=1.0152]

Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:277.05V I:1.1378A P:312.26W PF:0.9905 Freq:50.00Hz		
UTHDi:1.51% ITHDi:3.44% KDisp:0.9982 Lamp Flux:46579.2x1 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	907.6	902.0	905.8	919.9	927.3	924.2	916.7	908.2	0- 10	872.7	872.7	1.87,1.87
20	909.0	891.1	892.6	920.6	943.5	928.4	911.0	897.0	10- 20	2588	3461	7.43,7.43
30	900.2	875.8	883.6	911.4	944.9	923.0	910.7	883.0	20- 30	4203	7664	16.5,16.5
40	870.3	857.6	876.5	899.4	937.9	917.1	914.3	869.3	30- 40	5647	13311	28.6,28.6
50	810.7	820.5	868.3	890.2	897.2	913.4	912.8	845.1	40- 50	6842	20153	43.3,43.3
60	791.6	783.7	863.9	865.7	915.7	901.2	903.2	834.9	50- 60	7744	27897	59.9,59.9
70	831.3	816.0	615.5	914.5	964.5	983.7	484.3	956.3	60- 70	8679	36576	78.5,78.5
80	233.0	894.6	182.4	1050	300.9	1042	131.5	766.9	70- 80	7442	44018	94.5,94.5
90	2.714	4.539	9.846	9.411	1.707	2.140	1.260	2.570	80- 90	2207	46224	99.2,99.2
100	4.536	4.614	3.604	3.456	3.127	3.347	2.845	3.759	90-100	35.93	46260	99.3,99.3
110	5.821	5.811	5.268	4.496	4.332	4.460	4.205	4.949	100-110	45.22	46305	99.4,99.4
120	7.030	7.215	6.428	5.821	5.567	5.745	5.371	6.214	110-120	55.13	46361	99.5,99.5
130	7.549	7.750	7.175	6.705	6.399	6.562	6.298	6.880	120-130	59.14	46420	99.7,99.7
140	7.445	7.568	7.328	7.039	6.813	6.817	6.799	6.890	130-140	54.22	46474	99.8,99.8
150	7.337	7.498	7.374	7.053	6.818	6.894	6.843	6.833	140-150	44.33	46518	99.9,99.9
160	7.355	7.611	7.419	7.183	7.042	7.160	7.022	7.070	150-160	32.91	46551	99.9,99.9
170	7.563	7.833	7.474	7.436	7.443	7.588	7.382	7.481	160-170	20.81	46572	100,100
180	7.624	7.820	7.493	7.569	7.623	7.818	7.497	7.567	170-180	7.220	46579	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

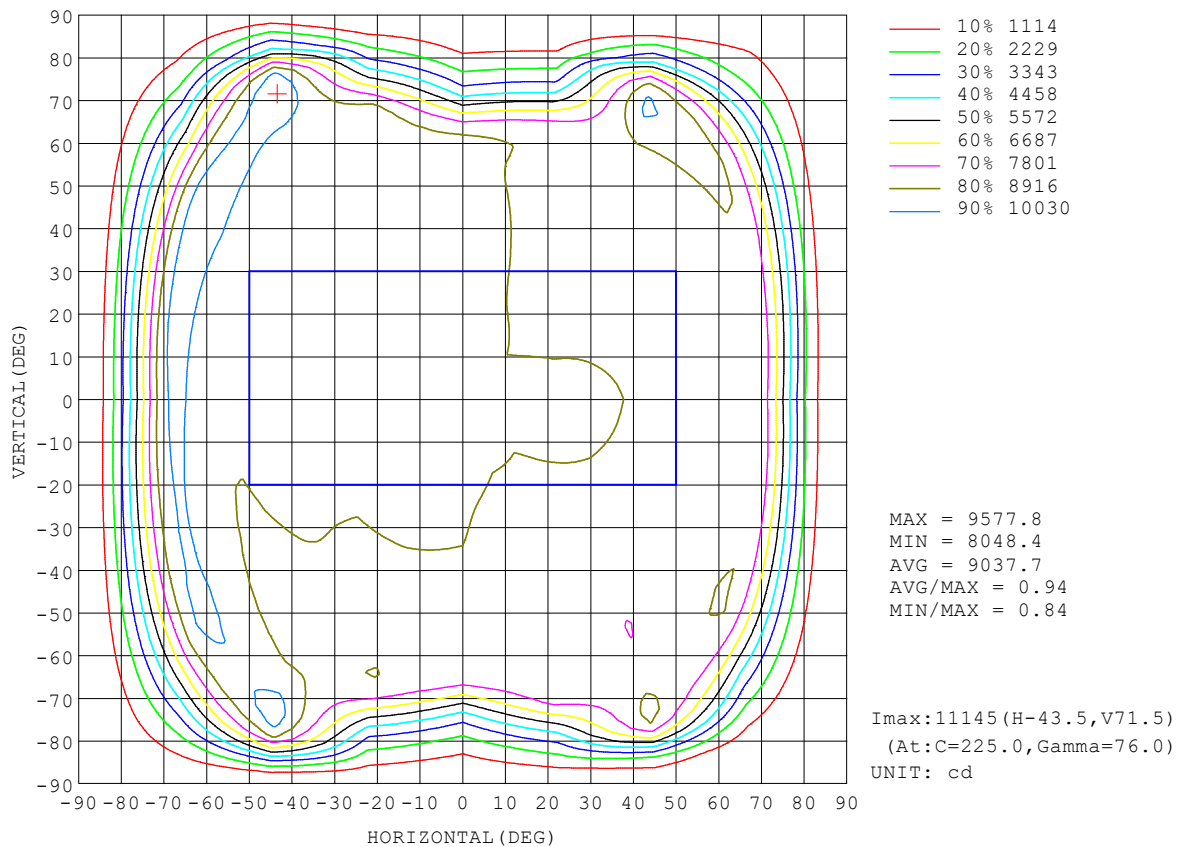
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

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=1.0152]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

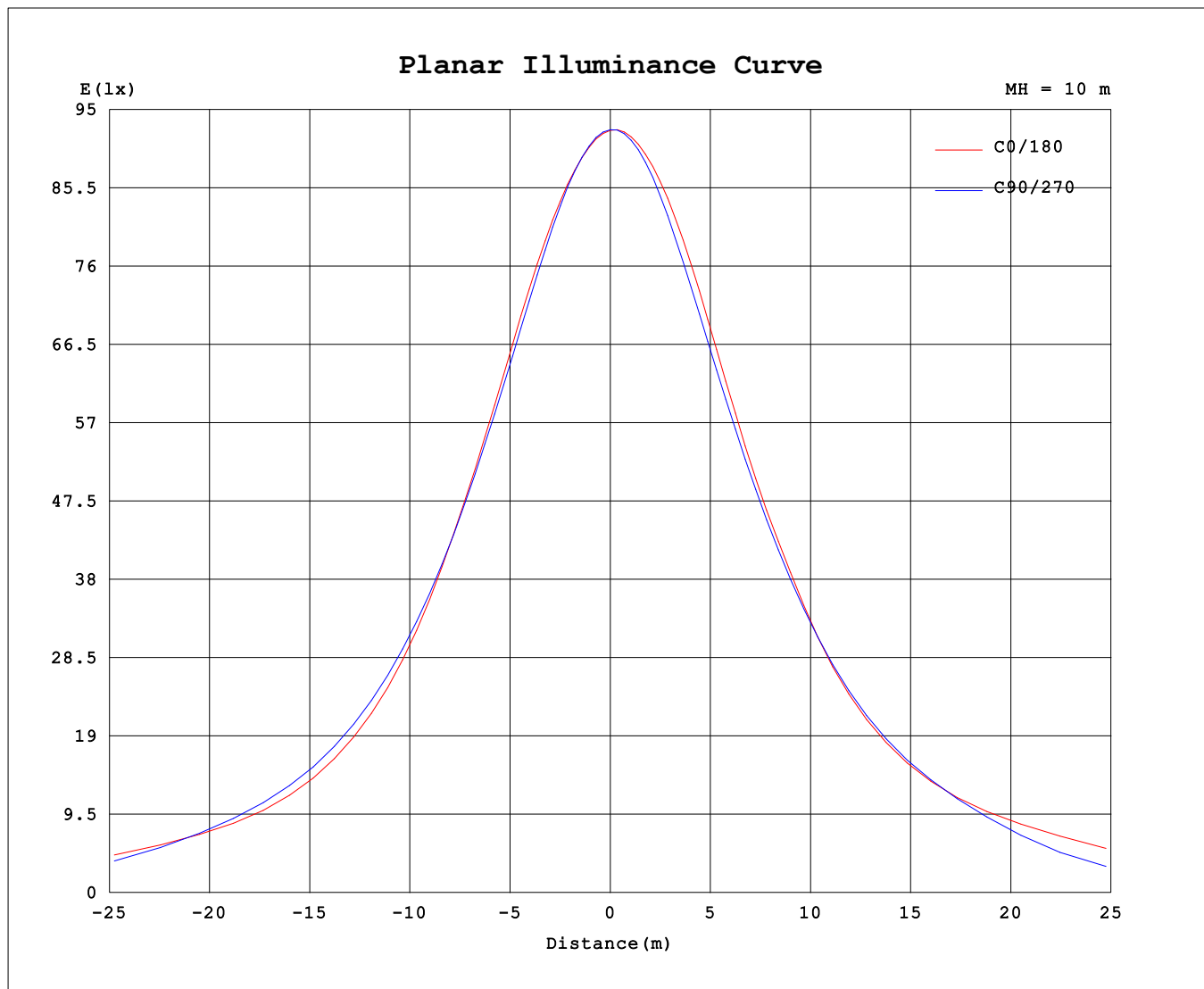
Test:U:277.05V I:1.1378A P:312.26W PF:0.9905 Freq:50.00Hz		
UTHDi:1.51% ITHDi:3.44% KDisp:0.9982 Lamp Flux:46579.2x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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=1.0152]
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=1.0152]

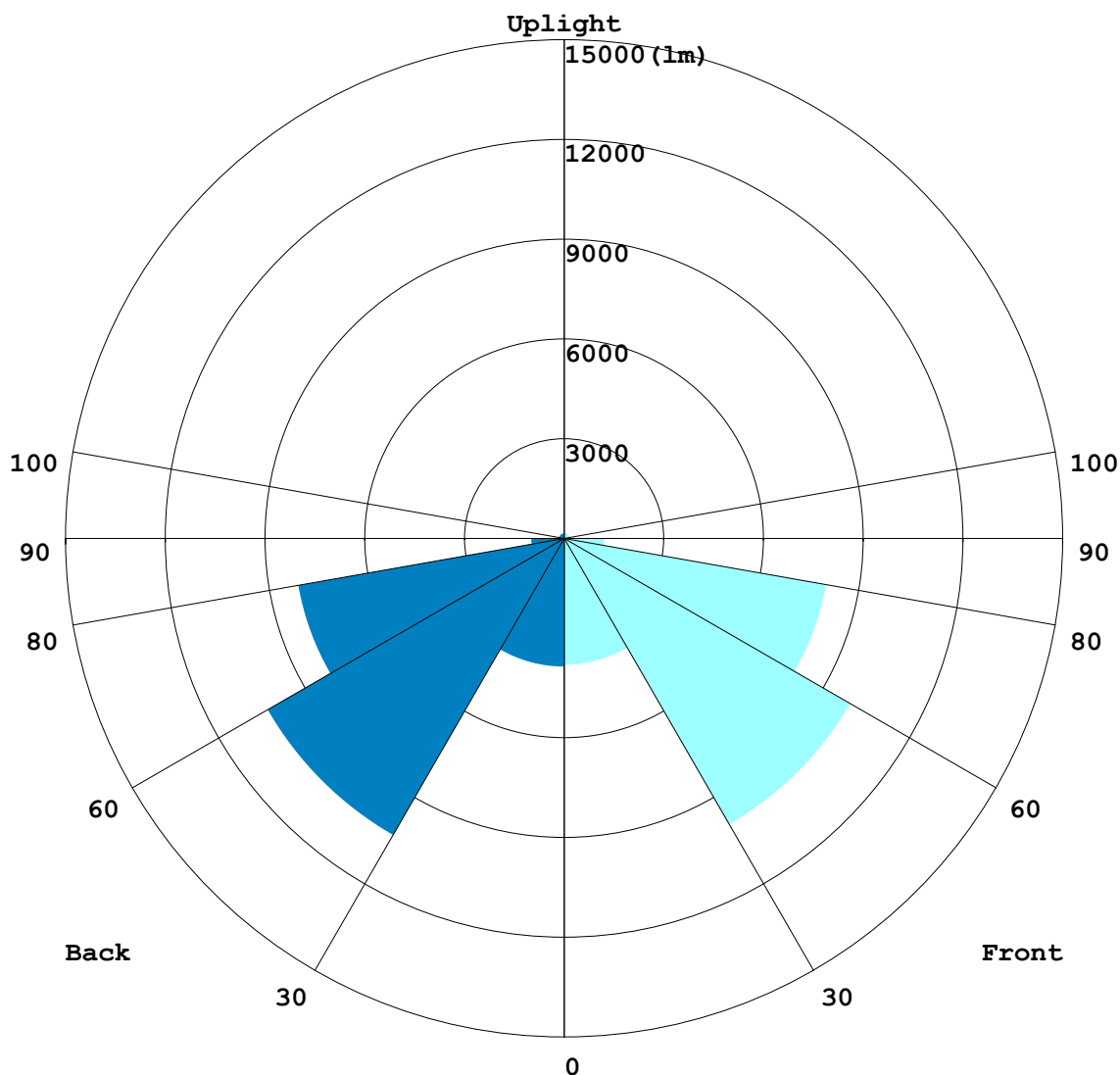
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:277.05V I:1.1378A P:312.26W PF:0.9905 Freq:50.00Hz		
UTHDi:1.51% ITHDi:3.44% KDisp:0.9982 Lamp Flux:46579.2x1 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=1.0152]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:277.05V I:1.1378A P:312.26W PF:0.9905 Freq:50.00Hz UTHDi:1.51% ITHDi:3.44% KDisp:0.9982 Lamp Flux:46579.2x1 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)	3806.5	8.2
FM - Front-Medium(30-60)	9930.1	21.3
FH - Front-High(60-80)	7998.2	17.2
FVH - Front-Very High(80-90)	1212.2	2.6
Total Forward Light	23136	49.7

BL - Back-Low(0-30)	3857.8	8.3
BM - Back-Medium(30-60)	10303	22.1
BH - Back-High(60-80)	8122.5	17.4
BVH - Back-Very High(80-90)	994.35	2.1
Total Back Light	23443	50.3

UL - Uplight-Low(90-100)	35.926	0.1
UH - Uplight-High(100-180)	318.99	0.7
Total Up Light	354.91	0.8

BUG(Back,Up,Glare) Rating	B5-U3-G5
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	23277	166.03	23443
Street Side	22947	188.88	23136

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=1.0152]

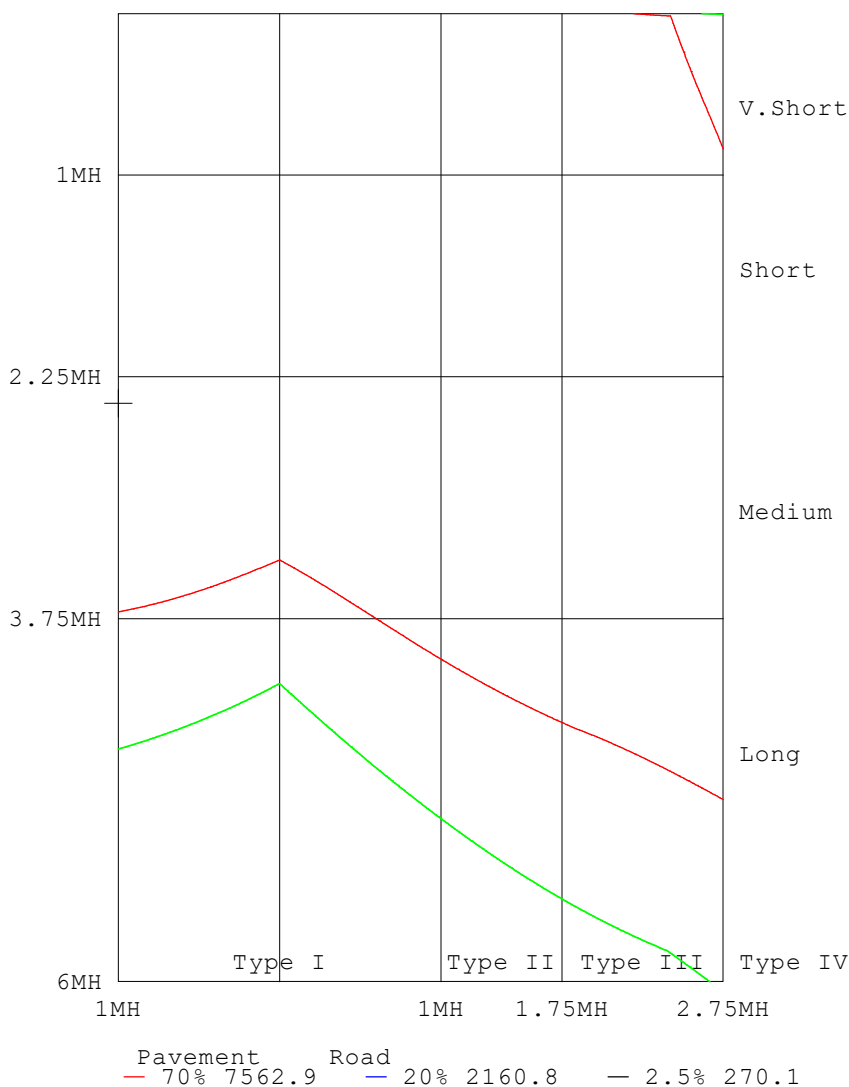
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:277.05V I:1.1378A P:312.26W PF:0.9905 Freq:50.00Hz UTHDi:1.51% ITHDi:3.44% KDisp:0.9982 Lamp Flux:46579.2x1 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=1.0152]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.05V I:1.1378A P:312.26W PF:0.9905 Freq:50.00Hz		
UTHDi:1.51% ITHDi:3.44% KDisp:0.9982 Lamp Flux:46579.2x1 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	915	915	915	915	915	915	915	915	915	915	915	915	915	915	915	915			
5	911	910	910	910	912	915	917	918	919	919	919	918	917	914	912	911			
10	908	906	902	901	906	914	920	925	927	926	924	921	917	911	908	908			
15	908	905	898	895	901	912	921	929	934	932	927	921	915	907	905	907			
20	909	904	891	885	893	908	921	935	944	939	928	919	911	900	897	904			
25	908	903	886	878	888	904	918	936	947	941	927	917	910	896	891	901			
30	900	895	876	870	884	899	911	932	945	940	923	915	911	892	883	893			
35	892	888	868	865	881	896	907	928	940	938	920	914	912	890	878	887			
40	870	874	858	855	876	889	899	925	938	939	917	912	914	884	869	876			
45	846	855	848	847	873	884	896	928	927	940	920	912	915	880	863	859			
50	811	824	821	833	868	876	890	906	897	920	913	911	913	872	845	831			
55	792	809	803	826	865	872	877	897	889	916	903	913	910	868	836	817			
60	792	802	784	825	864	875	866	907	916	941	901	930	903	879	835	812			
65	831	828	781	846	848	892	869	940	979	996	914	964	819	868	854	831			
70	831	905	816	865	615	845	914	1037	964	1077	984	918	484	624	956	907			
75	622	817	881	725	401	654	1000	1008	714	929	1079	710	305	401	1039	889			
80	233	393	895	387	182	327	1050	625	301	457	1042	357	132	173	767	504			
85	86.1	141	431	208	89.7	175	692	315	116	183	484	187	53.7	72.9	311	202			
90	2.71	2.67	4.54	3.62	9.85	29.5	9.41	4.84	1.71	13.0	2.14	1.25	1.26	2.44	2.57	2.02			
95	3.39	3.08	3.82	3.82	2.49	1.79	2.72	3.43	2.12	2.87	2.68	1.69	1.85	3.04	3.14	2.43			
100	4.54	4.17	4.61	4.82	3.60	2.74	3.46	4.18	3.13	3.75	3.35	2.54	2.85	3.90	3.76	3.30			
105	5.12	4.70	5.02	5.33	4.33	3.38	3.83	4.56	3.65	4.18	3.74	3.03	3.44	4.37	4.14	3.68			
110	5.82	5.43	5.81	6.12	5.27	4.26	4.50	5.22	4.33	4.86	4.46	3.76	4.21	5.10	4.95	4.31			
115	6.30	5.93	6.45	6.72	5.77	4.81	5.04	5.77	4.81	5.41	5.02	4.29	4.69	5.66	5.54	4.84			
120	7.03	6.73	7.22	7.53	6.43	5.57	5.82	6.57	5.57	6.14	5.74	5.04	5.37	6.29	6.21	5.66			
125	7.38	7.17	7.55	7.78	6.81	6.04	6.27	6.94	5.97	6.41	6.13	5.49	5.79	6.54	6.54	6.09			
130	7.55	7.55	7.75	7.69	7.17	6.59	6.71	7.00	6.40	6.74	6.56	6.08	6.30	6.82	6.88	6.56			
135	7.54	7.62	7.73	7.56	7.27	6.87	6.91	6.94	6.62	6.81	6.70	6.36	6.56	6.85	6.93	6.76			
140	7.44	7.53	7.57	7.48	7.33	7.14	7.04	6.90	6.81	6.83	6.82	6.64	6.80	6.81	6.89	6.92			
145	7.41	7.45	7.51	7.48	7.36	7.23	7.05	6.89	6.83	6.82	6.83	6.72	6.84	6.75	6.83	6.89			
150	7.34	7.38	7.50	7.50	7.37	7.22	7.05	6.90	6.82	6.86	6.89	6.79	6.84	6.74	6.83	6.82			
155	7.30	7.40	7.52	7.52	7.38	7.24	7.08	6.93	6.87	6.93	6.98	6.86	6.89	6.80	6.90	6.85			
160	7.36	7.48	7.61	7.59	7.42	7.30	7.18	7.03	7.04	7.11	7.16	7.03	7.02	6.99	7.07	6.98			
165	7.42	7.56	7.70	7.68	7.46	7.37	7.26	7.15	7.19	7.27	7.32	7.18	7.15	7.14	7.23	7.13			
170	7.56	7.74	7.83	7.68	7.47	7.41	7.44	7.34	7.44	7.52	7.59	7.44	7.38	7.38	7.48	7.39			
175	7.66	7.79	7.85	7.67	7.50	7.46	7.53	7.44	7.57	7.67	7.71	7.54	7.44	7.45	7.54	7.47			
180	7.62	7.76	7.82	7.64	7.49	7.47	7.57	7.48	7.62	7.76	7.82	7.64	7.50	7.47	7.57	7.48			

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=1.0152]

Remarks: