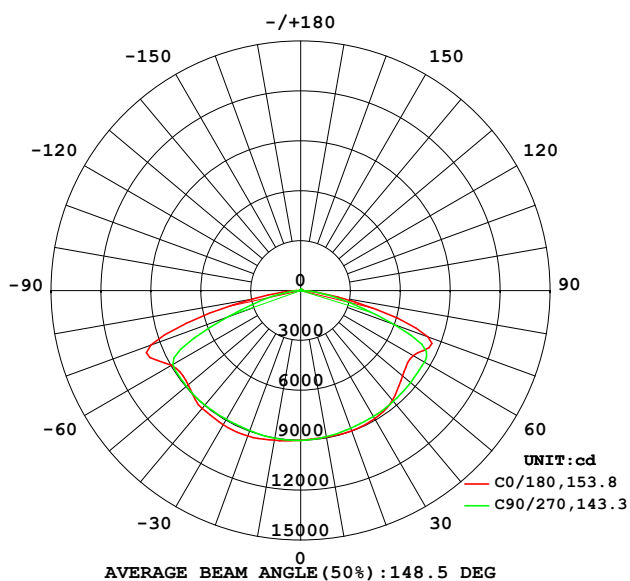
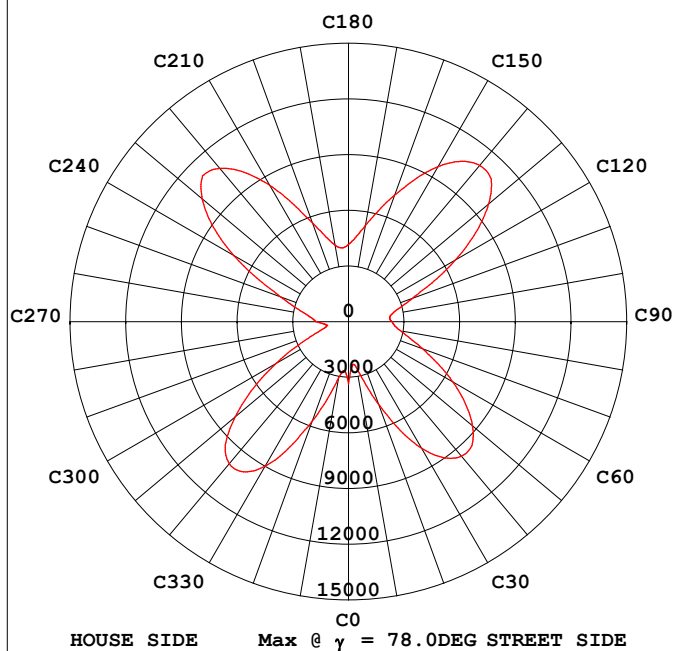


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:277.12V I:1.0954A P:300.49W PF:0.9899 Freq:50.00Hz		
UTHDi:1.42% ITHDi:3.66% KDisp:0.9981 Lamp Flux:45995.1x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 153.07 lm/W
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-HV-XX	I _{max} (cd)	11119	η street_up (%)	0.4	
NOMINAL POWER (W)	300	LOR (%)	100.0	η street_down (%)	49.4	
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	45995	η house_up (%)	0.4	
NOMINAL FLUX (lm)	45995.1	MAXIMUM @ (C, γ)	225,78.0	η house_down (%)	49.8	
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000	
TEST VOLTAGE (V)	277	η down (%)	99.2	SLI	24.588	

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

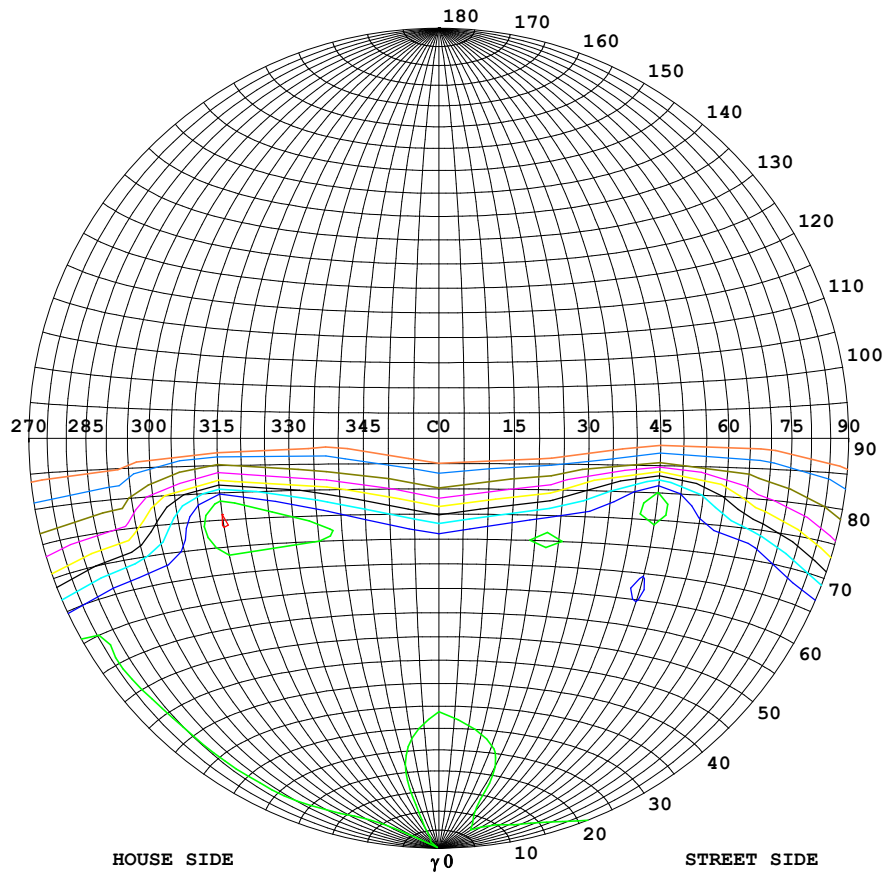
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

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

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:277.12V I:1.0954A P:300.49W PF:0.9899 Freq:50.00Hz UTHDi:1.42% ITHDi:3.66% KDisp:0.9981 Lamp Flux:45995.1x1 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.At80:230.6cd/klm
Max.At90:6.385cd/klm
Max.80-90:230.6cd/klm

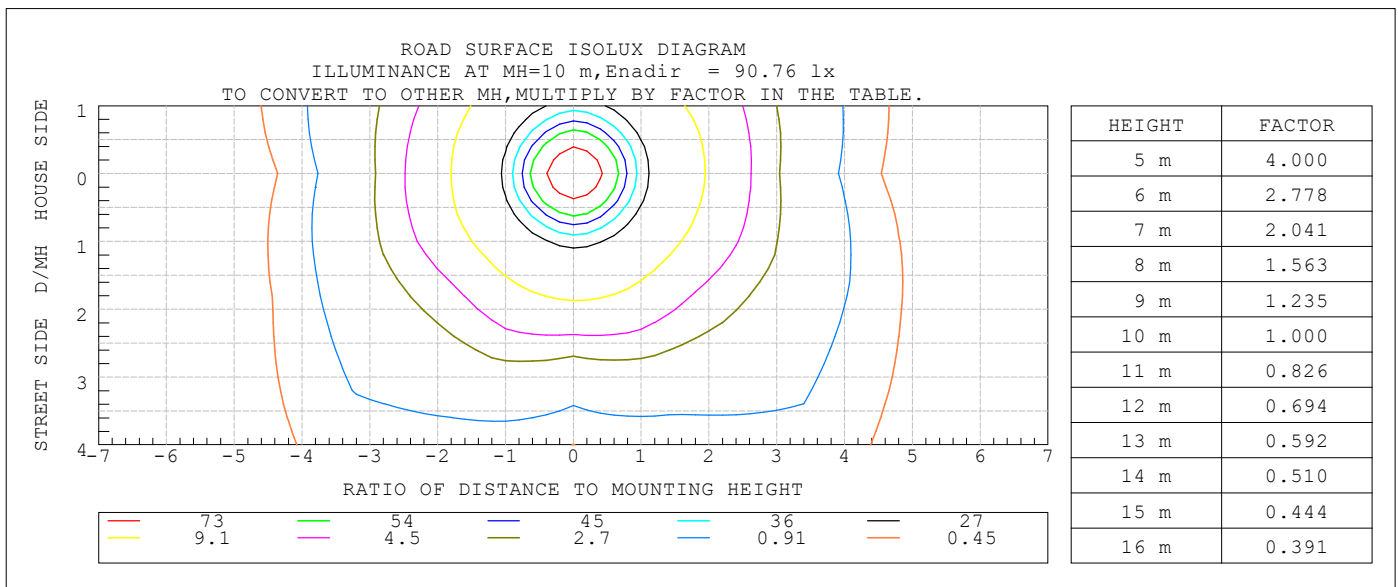
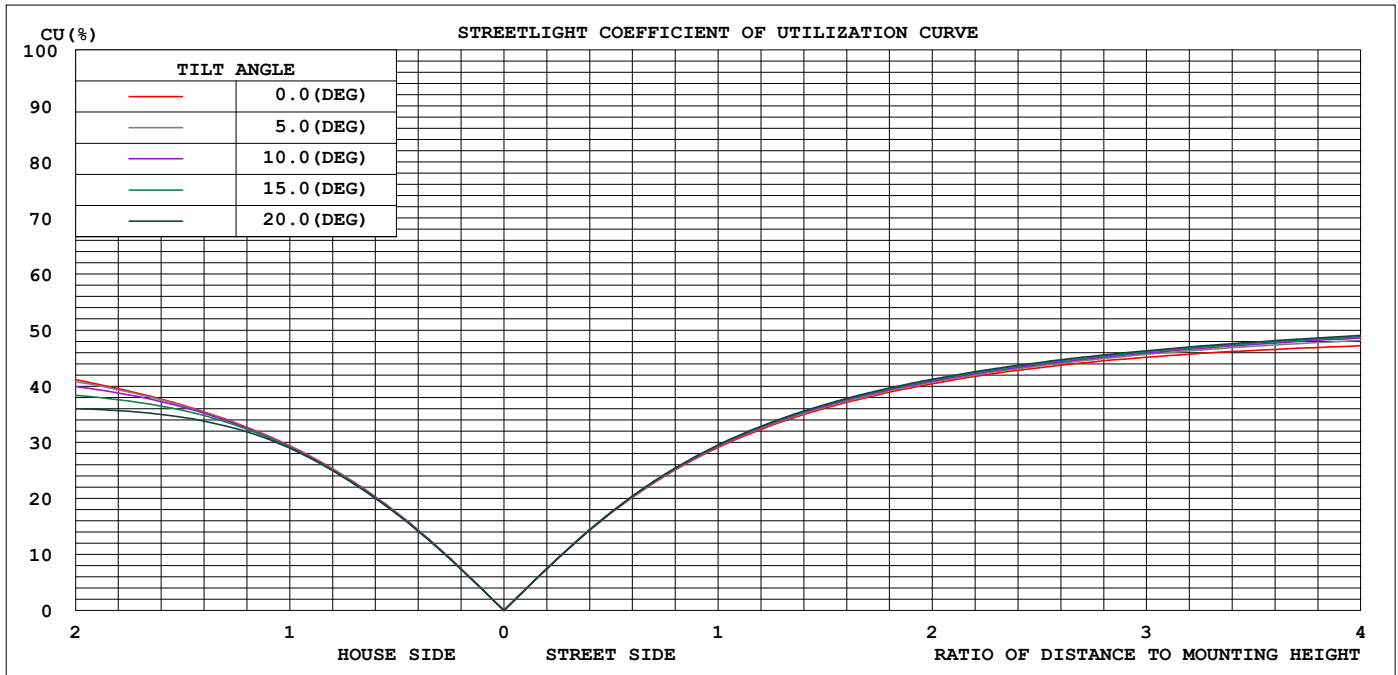
ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	11119
90%	10007
80%	8895
70%	7783
60%	6672
50%	5560
40%	4448
30%	3336
20%	2224
10%	1112
5%	556

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:277.12V I:1.0954A P:300.49W PF:0.9899 Freq:50.00Hz		
UTHDi:1.42% ITHDi:3.66% KDisp:0.9981 Lamp Flux:45995.1x1 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	894.3	888.5	892.3	906.5	913.9	910.0	901.7	893.7	0- 10	859.2	859.2	1.87,1.87
20	897.3	878.5	881.1	908.4	930.9	914.0	895.7	882.7	10- 20	2550	3409	7.41,7.41
30	889.4	864.4	874.1	899.9	931.9	908.3	894.8	868.4	20- 30	4144	7553	16.4,16.4
40	860.0	848.2	868.5	889.0	923.9	901.9	897.5	854.5	30- 40	5568	13121	28.5,28.5
50	800.5	813.6	862.1	881.9	882.8	898.0	896.5	830.6	40- 50	6750	19871	43.2,43.2
60	782.1	779.8	860.0	858.6	899.5	884.4	887.4	819.7	50- 60	7645	27516	59.8,59.8
70	816.4	819.4	603.2	911.5	959.1	967.0	473.0	934.2	60- 70	8576	36092	78.5,78.5
80	226.8	894.7	177.1	1060	292.0	1037	128.5	771.4	70- 80	7368	43461	94.5,94.5
90	2.696	4.432	9.790	9.084	1.736	2.115	1.243	2.547	80- 90	2184	45645	99.2,99.2
100	4.515	4.569	3.527	3.405	3.096	3.319	2.823	3.720	90-100	35.56	45680	99.3,99.3
110	5.776	5.748	5.171	4.427	4.296	4.408	4.181	4.904	100-110	44.71	45725	99.4,99.4
120	6.986	7.135	6.317	5.726	5.514	5.680	5.336	6.155	110-120	54.49	45779	99.5,99.5
130	7.487	7.639	7.059	6.584	6.336	6.495	6.257	6.800	120-130	58.43	45838	99.7,99.7
140	7.371	7.449	7.217	6.906	6.740	6.748	6.748	6.798	130-140	53.52	45891	99.8,99.8
150	7.261	7.389	7.269	6.922	6.739	6.817	6.786	6.738	140-150	43.73	45935	99.9,99.9
160	7.273	7.505	7.315	7.055	6.954	7.072	6.952	6.966	150-160	32.46	45967	99.9,99.9
170	7.474	7.723	7.375	7.312	7.347	7.485	7.300	7.367	160-170	20.52	45988	100,100
180	7.532	7.712	7.400	7.449	7.527	7.709	7.402	7.448	170-180	7.119	45995	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

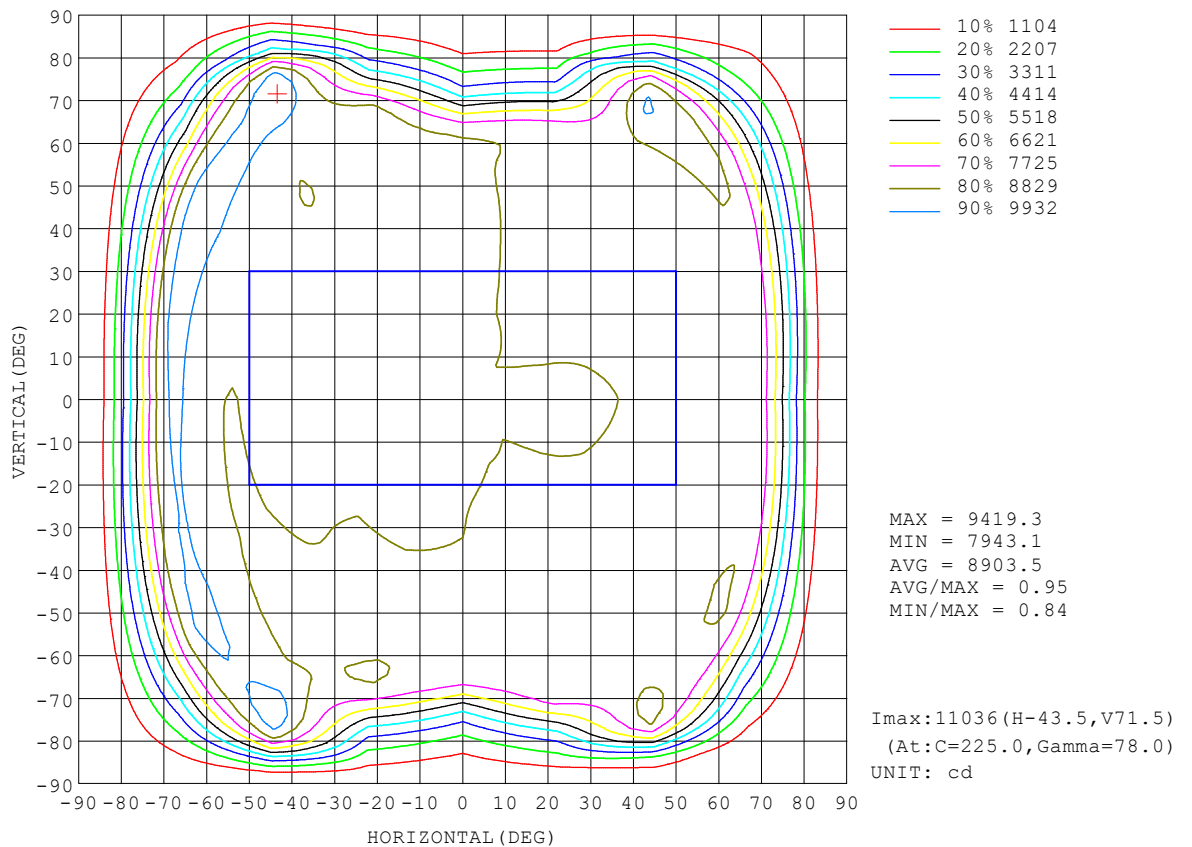
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

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

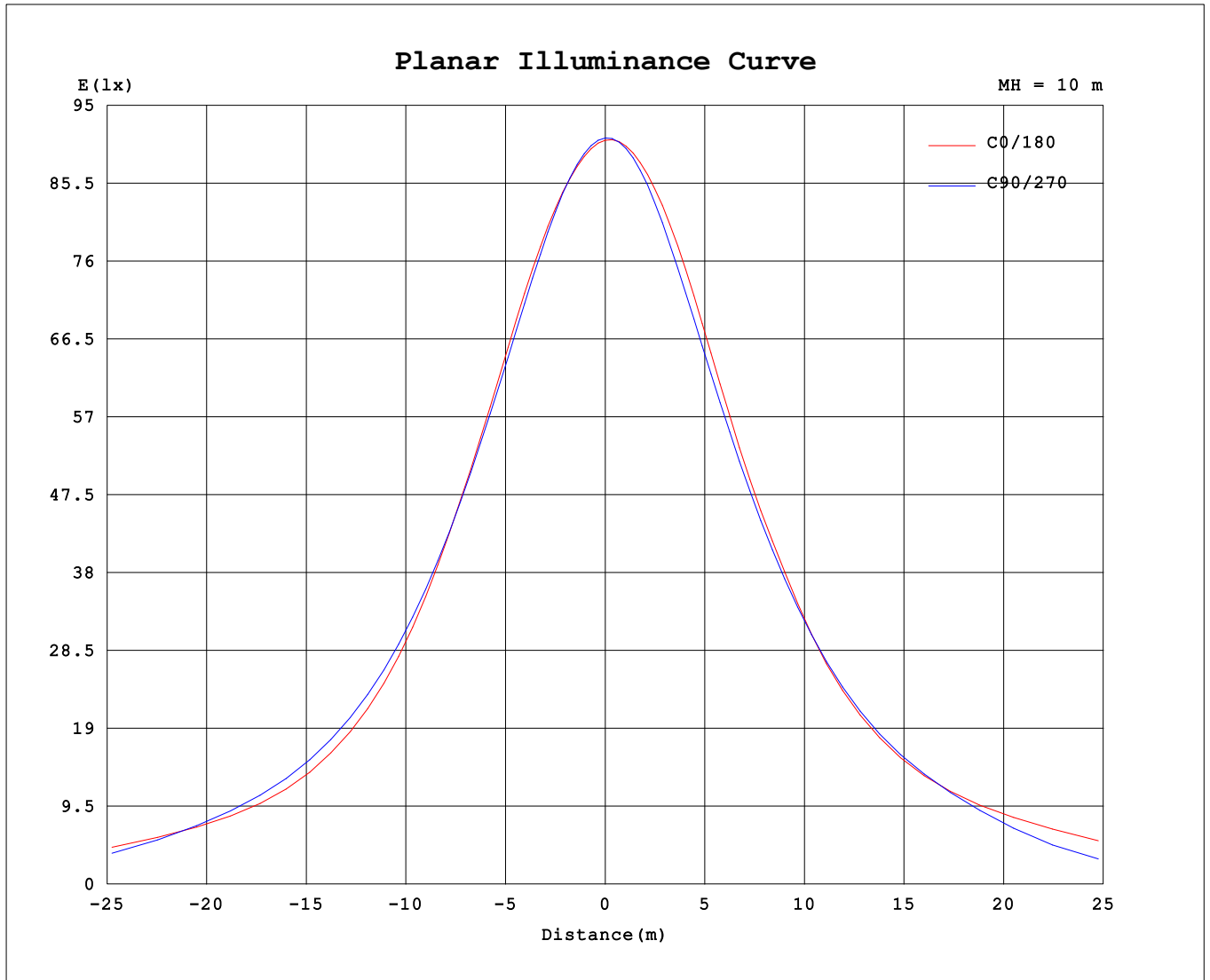
Test:U:277.12V I:1.0954A P:300.49W PF:0.9899 Freq:50.00Hz UTHDi:1.42% ITHDi:3.66% KDisp:0.9981 Lamp Flux:45995.1x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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

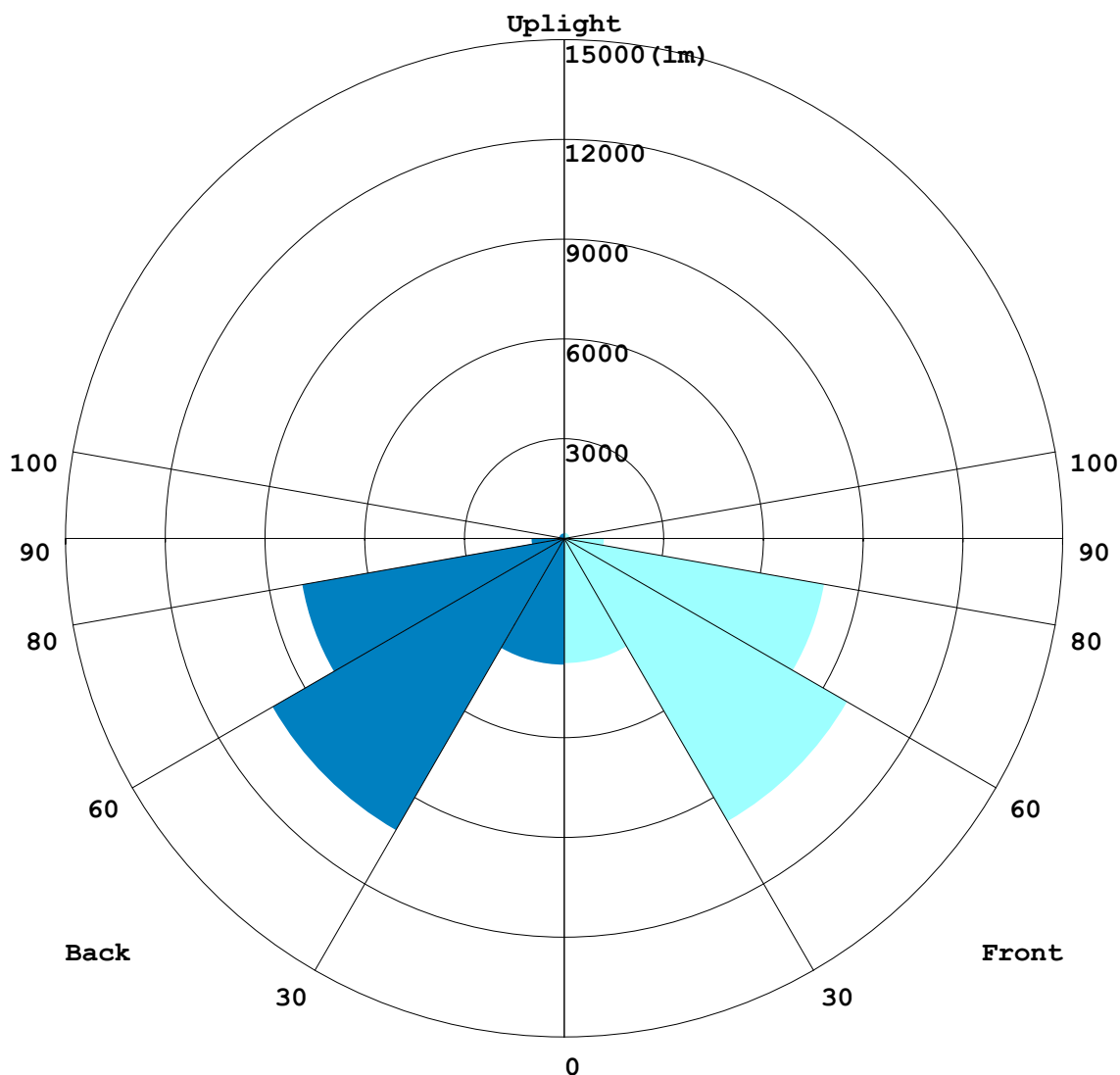
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:277.12V I:1.0954A P:300.49W PF:0.9899 Freq:50.00Hz		
UTHDi:1.42% ITHDi:3.66% KDisp:0.9981 Lamp Flux:45995.1x1 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:277.12V I:1.0954A P:300.49W PF:0.9899 Freq:50.00Hz UTHDi:1.42% ITHDi:3.66% KDisp:0.9981 Lamp Flux:45995.1x1 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)	3755.2	8.2
FM - Front-Medium(30-60)	9832.2	21.4
FH - Front-High(60-80)	7944	17.3
FVH - Front-Very High(80-90)	1198.4	2.6
Total Forward Light	22916	49.8

BL - Back-Low(0-30)	3798	8.3
BM - Back-Medium(30-60)	10131	22.0
BH - Back-High(60-80)	8000.7	17.4
BVH - Back-Very High(80-90)	985.32	2.1
Total Back Light	23079	50.2

UL - Uplight-Low(90-100)	35.561	0.1
UH - Uplight-High(100-180)	314.98	0.7
Total Up Light	350.54	0.8

BUG(Back,Up,Glare) Rating	B5-U3-G5
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	22915	164.39	23079
Street Side	22730	186.15	22916

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

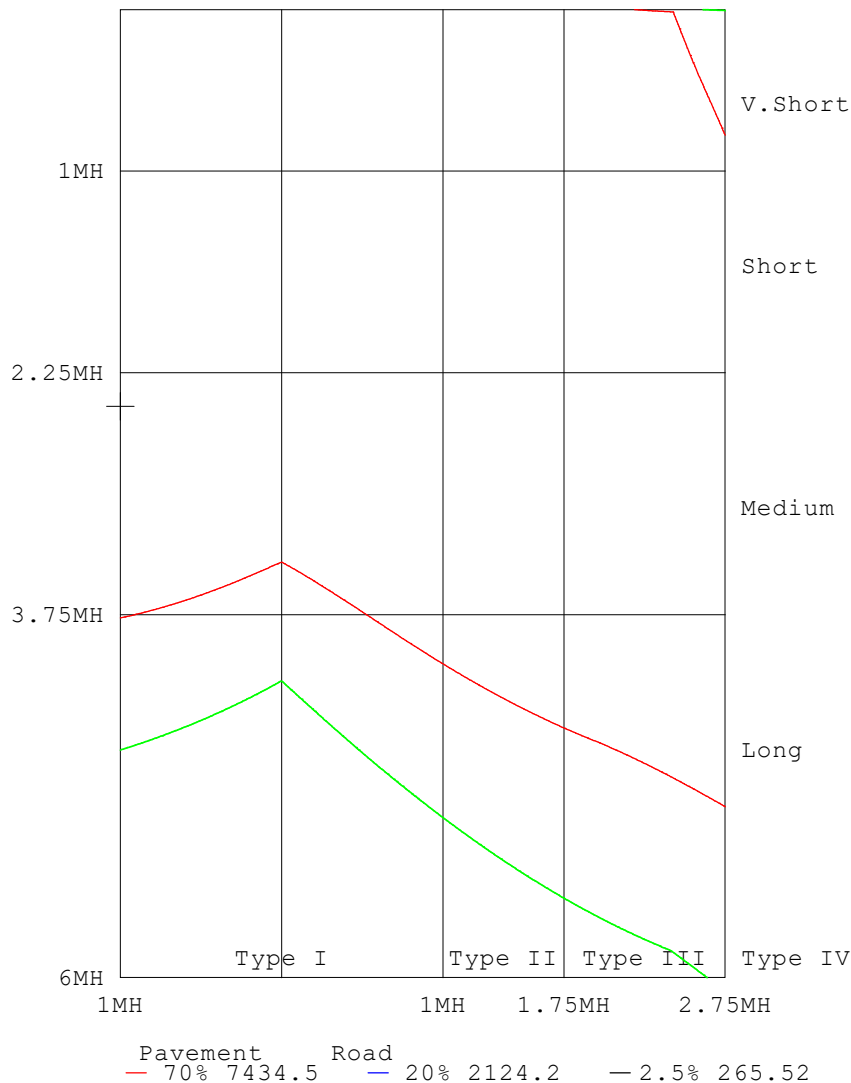
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:277.12V I:1.0954A P:300.49W PF:0.9899 Freq:50.00Hz UTHDi:1.42% ITHDi:3.66% KDisp:0.9981 Lamp Flux:45995.1x1 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:277.12V I:1.0954A P:300.49W PF:0.9899 Freq:50.00Hz		
UTHDi:1.42% ITHDi:3.66% KDisp:0.9981 Lamp Flux:45995.1x1 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	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900			
5	896	896	895	896	897	901	903	904	905	905	904	904	902	899	898	897			
10	894	892	889	888	892	900	907	911	914	912	910	907	902	896	894	894			
15	895	892	885	882	888	899	908	916	921	918	913	907	900	892	890	893			
20	897	892	878	873	881	896	908	922	931	926	914	904	896	885	883	891			
25	896	891	874	867	877	892	906	923	934	928	913	901	894	881	877	888			
30	889	884	864	860	874	888	900	919	932	927	908	900	895	877	868	881			
35	882	877	858	856	872	886	896	915	927	924	905	898	895	874	863	874			
40	860	865	848	847	869	881	889	912	924	925	902	896	898	868	855	864			
45	835	846	840	839	866	876	887	915	913	926	905	896	898	864	848	847			
50	801	816	814	827	862	869	882	894	883	905	898	895	896	856	831	819			
55	782	802	797	820	860	866	869	885	874	900	887	896	894	853	822	805			
60	782	797	780	823	860	871	859	896	899	924	884	915	887	865	820	800			
65	822	824	779	845	842	889	863	929	960	976	897	949	803	856	837	818			
70	816	902	819	859	603	843	912	1024	959	1064	967	899	473	620	934	893			
75	607	814	890	705	391	651	997	1008	716	941	1060	689	298	399	1019	871			
80	227	393	895	367	177	324	1060	620	292	456	1037	344	128	173	771	492			
85	84.9	143	428	197	87.3	173	697	304	110	181	486	180	52.3	72.5	316	193			
90	2.70	2.62	4.43	3.64	9.79	29.4	9.08	4.80	1.74	13.0	2.12	1.21	1.24	2.44	2.55	1.99			
95	3.37	3.06	3.80	3.76	2.44	1.76	2.69	3.36	2.10	2.85	2.65	1.66	1.84	3.04	3.11	2.42			
100	4.51	4.14	4.57	4.75	3.53	2.69	3.41	4.11	3.10	3.73	3.32	2.50	2.82	3.90	3.72	3.26			
105	5.09	4.65	4.97	5.26	4.24	3.31	3.77	4.48	3.62	4.16	3.70	2.99	3.42	4.36	4.10	3.63			
110	5.78	5.37	5.75	6.04	5.17	4.18	4.43	5.13	4.30	4.83	4.41	3.71	4.18	5.08	4.90	4.25			
115	6.25	5.87	6.38	6.62	5.66	4.72	4.96	5.67	4.77	5.38	4.96	4.23	4.66	5.63	5.49	4.79			
120	6.99	6.66	7.13	7.41	6.32	5.46	5.73	6.45	5.51	6.11	5.68	4.99	5.34	6.26	6.15	5.59			
125	7.33	7.10	7.46	7.66	6.70	5.92	6.16	6.81	5.91	6.37	6.06	5.43	5.75	6.50	6.47	6.01			
130	7.49	7.47	7.64	7.56	7.06	6.46	6.58	6.87	6.34	6.69	6.50	6.01	6.26	6.78	6.80	6.47			
135	7.47	7.52	7.61	7.43	7.16	6.74	6.78	6.81	6.55	6.76	6.64	6.30	6.51	6.80	6.85	6.66			
140	7.37	7.43	7.45	7.37	7.22	7.01	6.91	6.77	6.74	6.77	6.75	6.57	6.75	6.74	6.80	6.82			
145	7.33	7.35	7.40	7.37	7.25	7.10	6.92	6.76	6.75	6.76	6.76	6.65	6.79	6.68	6.73	6.79			
150	7.26	7.29	7.39	7.39	7.27	7.10	6.92	6.77	6.74	6.78	6.82	6.72	6.79	6.67	6.74	6.71			
155	7.23	7.31	7.41	7.40	7.28	7.11	6.95	6.81	6.79	6.85	6.89	6.79	6.82	6.72	6.80	6.73			
160	7.27	7.38	7.50	7.47	7.32	7.18	7.05	6.90	6.95	7.02	7.07	6.95	6.95	6.90	6.97	6.87			
165	7.33	7.47	7.60	7.57	7.36	7.25	7.13	7.02	7.10	7.18	7.22	7.10	7.08	7.05	7.12	7.01			
170	7.47	7.64	7.72	7.57	7.37	7.29	7.31	7.21	7.35	7.43	7.48	7.35	7.30	7.28	7.37	7.27			
175	7.57	7.70	7.75	7.57	7.41	7.34	7.41	7.31	7.47	7.57	7.60	7.45	7.35	7.35	7.42	7.35			
180	7.53	7.66	7.71	7.53	7.40	7.36	7.45	7.36	7.53	7.66	7.71	7.53	7.40	7.36	7.45	7.36			

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: