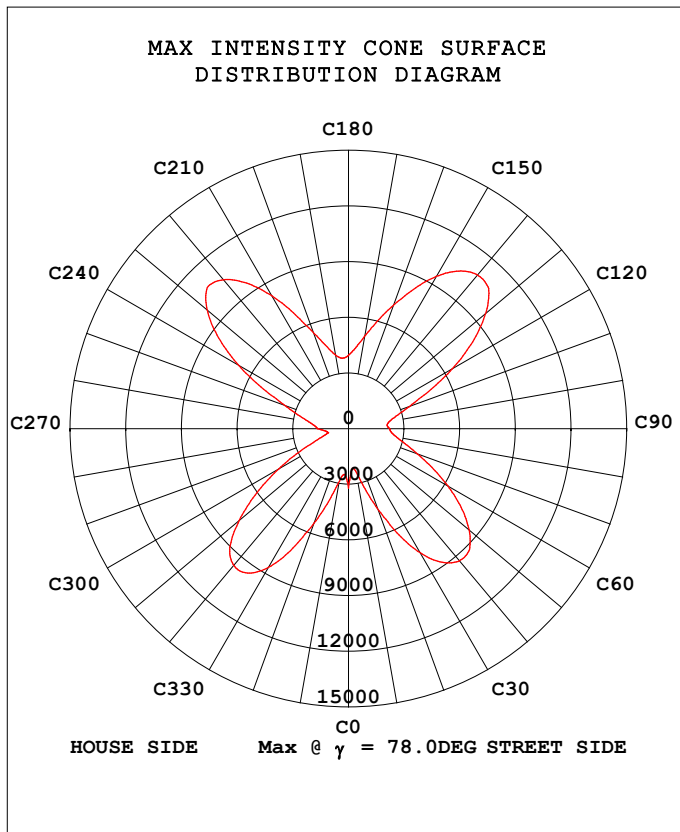
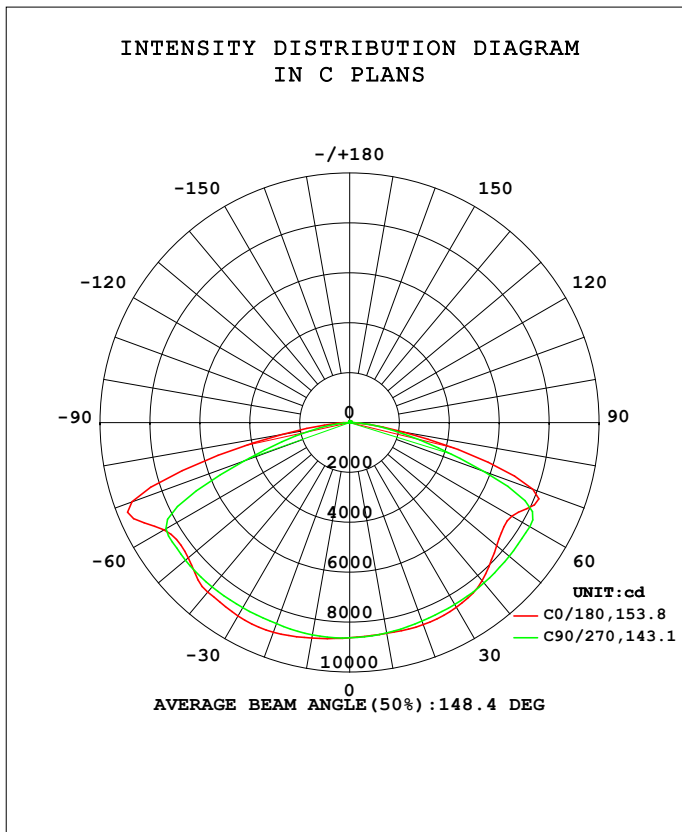


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:277.15V I:1.1356A P:311.77W PF:0.9906 Freq:50.00Hz		
UTHDi:1.45% ITHDi:3.27% KDisp:0.9982 Lamp Flux:44252.9x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.94 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-HV-XX	I _{max} (cd)	10777	η street_up (%)	0.4
NOMINAL POWER (W)	300	LOR (%)	100.0	η street_down (%)	49.6
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	44253	η house_up (%)	0.4
NOMINAL FLUX (lm)	44252.9	MAXIMUM @ (C, γ)	225,78.0	η house_down (%)	49.7
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	277	η down (%)	99.2	SLI	24.515



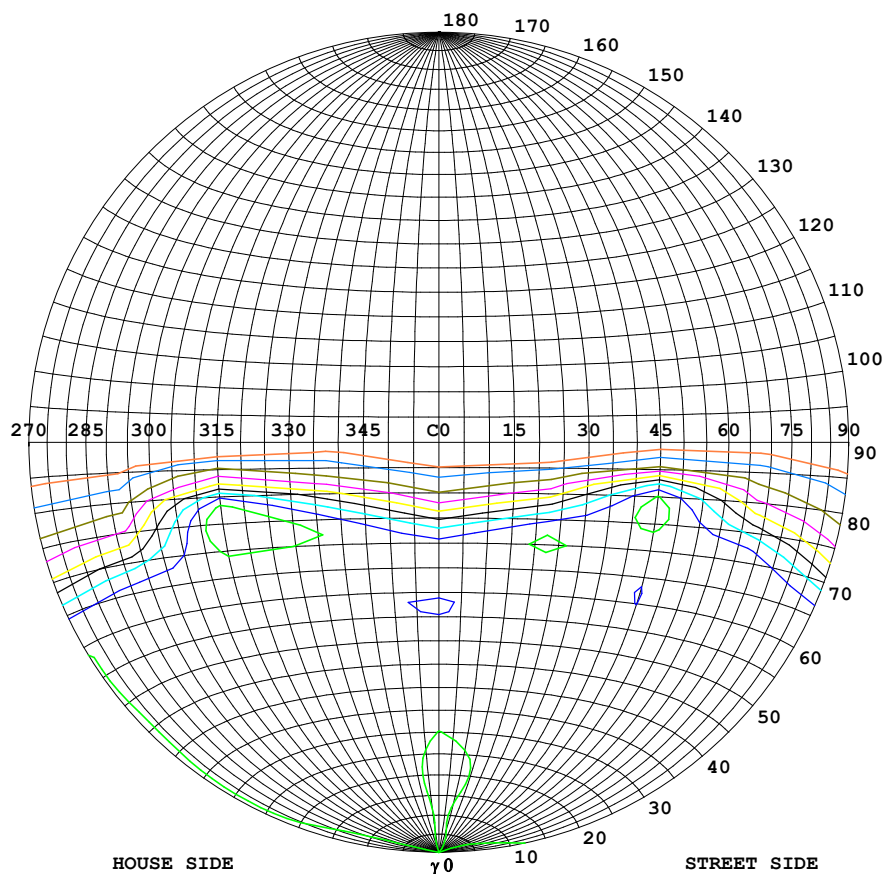
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

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=1.0080]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:277.15V I:1.1356A P:311.77W PF:0.9906 Freq:50.00Hz		
UTHDi:1.45% ITHDi:3.27% KDisp:0.9982 Lamp Flux:44252.9x1 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.At80:236.2cd/klm
 Max.At90:12.43cd/klm
 Max.80-90:236.2cd/klm

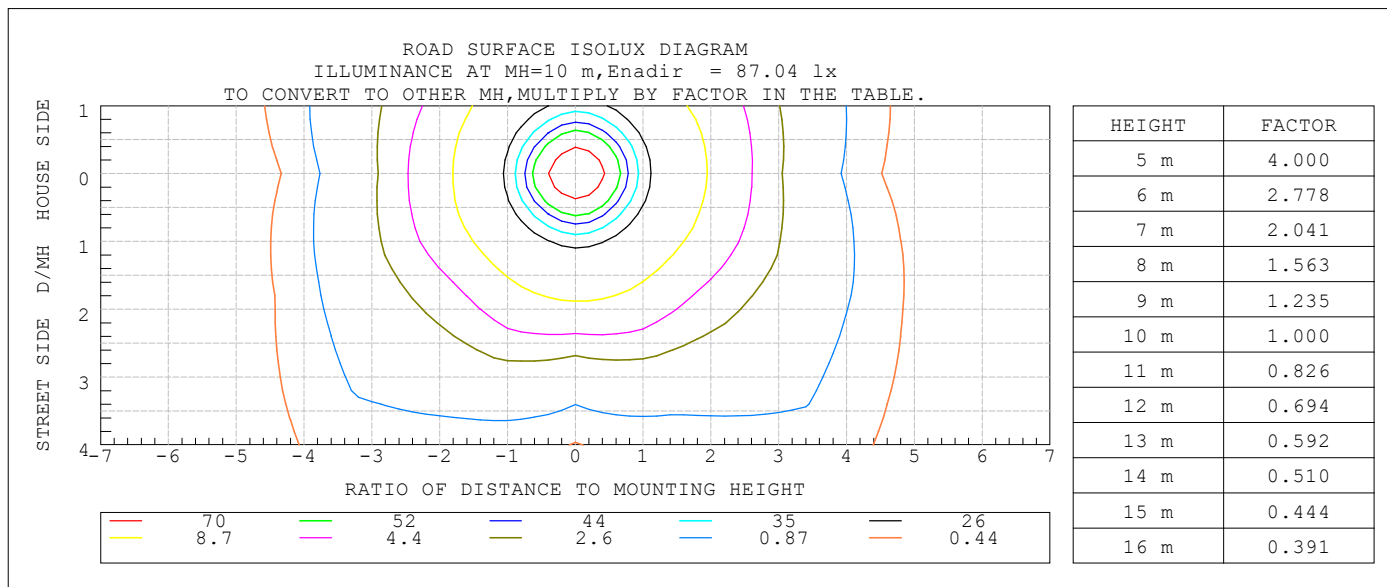
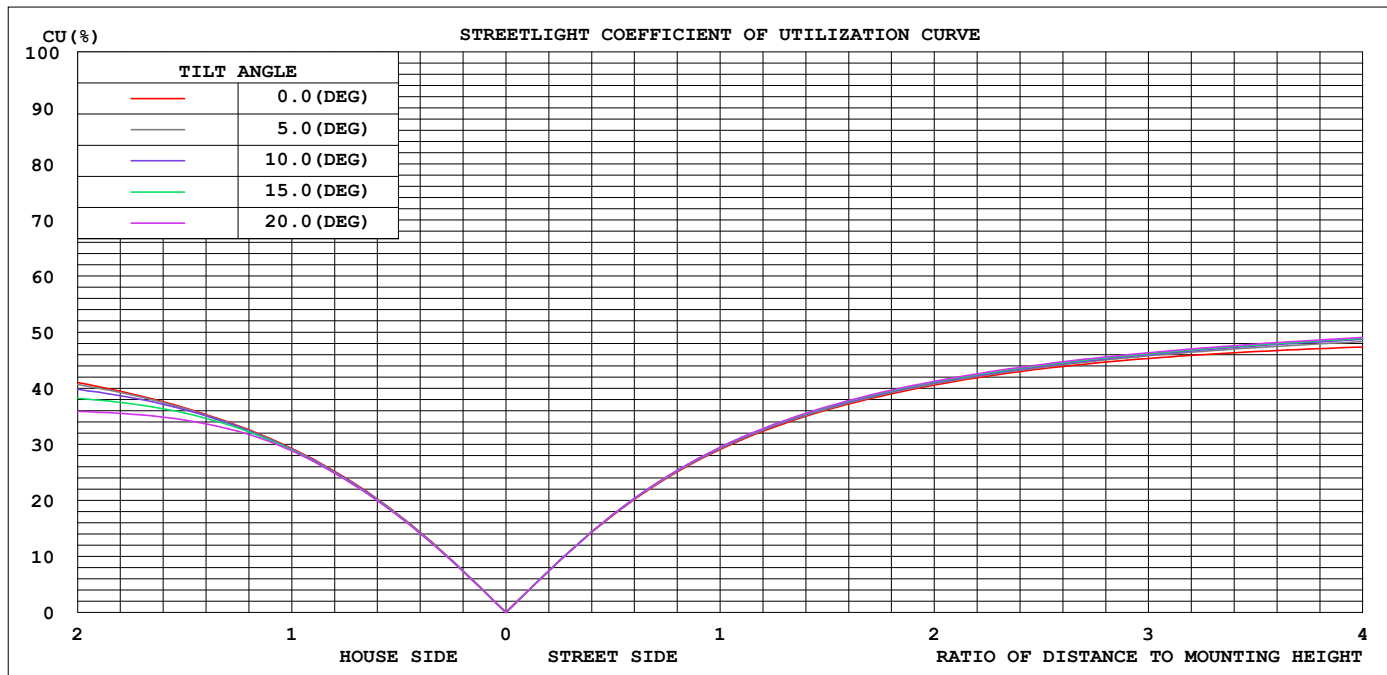
ISOCANDELA DIAGRAM		
UNIT		cd
I _{max} =100%		10777
90%		9699
80%		8622
70%		7544
60%		6466
50%		5388
40%		4311
30%		3233
20%		2155
10%		1078
5%		539

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=1.0080]
 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=1.0080]

Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:277.15V I:1.1356A P:311.77W PF:0.9906 Freq:50.00Hz UTHDi:1.45% ITHDi:3.27% KDisp:0.9982 Lamp Flux:44252.9x1 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	857.6	852.0	856.0	869.9	876.7	872.4	864.1	856.9	0- 10	823.6	823.6	1.86,1.86
20	862.1	843.6	846.7	872.7	894.3	876.5	858.0	846.0	10- 20	2447	3271	7.39,7.39
30	854.9	830.7	842.0	865.3	894.9	870.6	856.6	832.4	20- 30	3978	7249	16.4,16.4
40	826.6	817.5	838.4	856.4	886.4	863.9	858.8	819.5	30- 40	5348	12597	28.5,28.5
50	769.4	785.8	834.2	851.9	845.1	860.0	858.6	796.2	40- 50	6488	19085	43.1,43.1
60	751.2	755.4	834.2	830.7	859.9	845.7	850.2	786.3	50- 60	7354	26439	59.7,59.7
70	781.6	800.8	574.3	888.5	928.4	926.8	450.4	894.1	60- 70	8261	34700	78.4,78.4
80	216.5	871.0	167.0	1045	275.3	1005	122.3	745.1	70- 80	7110	41810	94.5,94.5
90	2.611	4.263	9.358	55.02	1.695	2.042	1.190	2.464	80- 90	2103	43913	99.2,99.2
100	4.375	4.404	3.372	3.266	2.987	3.207	2.721	3.595	90-100	37.40	43950	99.3,99.3
110	5.575	5.534	4.954	4.244	4.148	4.247	4.046	4.744	100-110	43.07	43993	99.4,99.4
120	6.748	6.867	6.060	5.486	5.316	5.474	5.164	5.947	110-120	52.47	44045	99.5,99.5
130	7.220	7.332	6.774	6.300	6.107	6.262	6.058	6.558	120-130	56.24	44102	99.7,99.7
140	7.096	7.141	6.928	6.606	6.491	6.508	6.529	6.542	130-140	51.47	44153	99.8,99.8
150	6.987	7.088	6.979	6.620	6.484	6.568	6.560	6.474	140-150	42.03	44195	99.9,99.9
160	6.994	7.202	7.026	6.750	6.685	6.803	6.709	6.688	150-160	31.19	44226	99.9,99.9
170	7.183	7.413	7.088	7.000	7.062	7.194	7.033	7.067	160-170	19.71	44246	100,100
180	7.236	7.406	7.118	7.138	7.236	7.405	7.124	7.138	170-180	6.836	44253	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

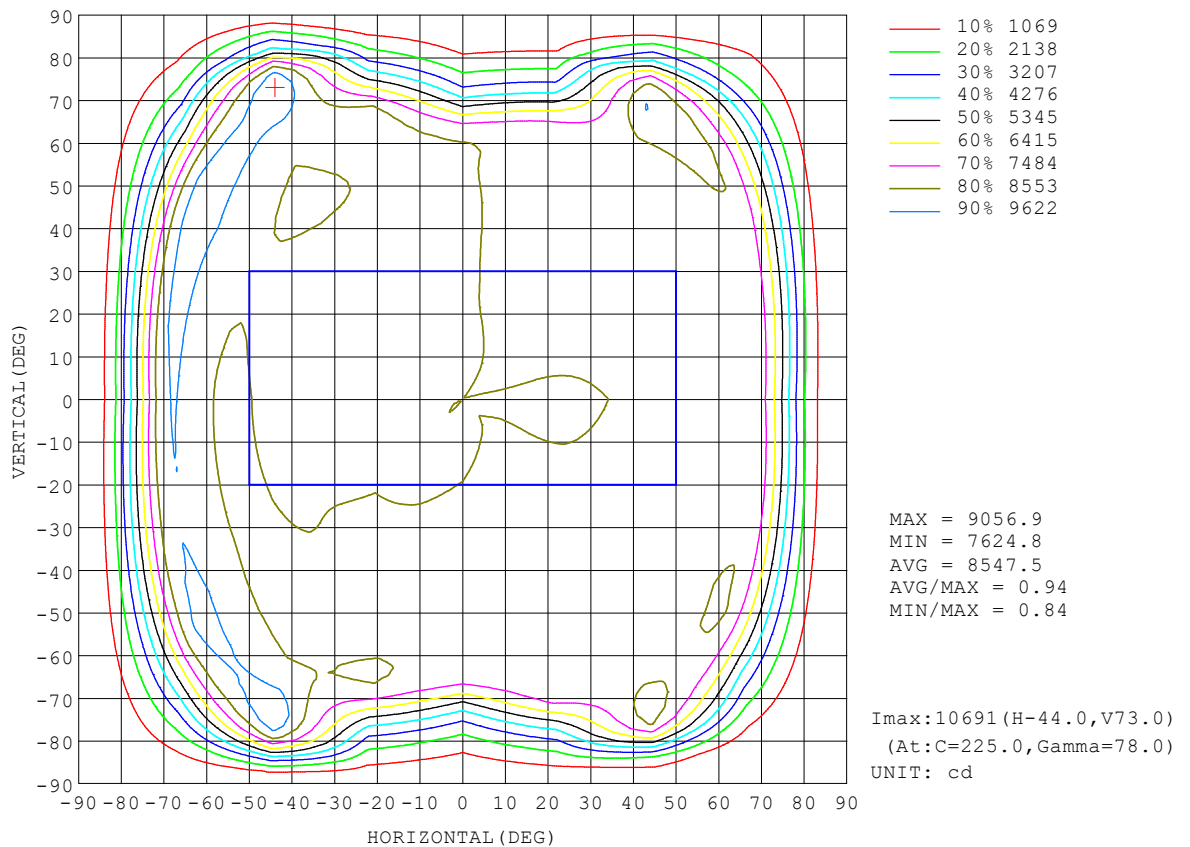
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:23 June 2025

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=1.0080]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

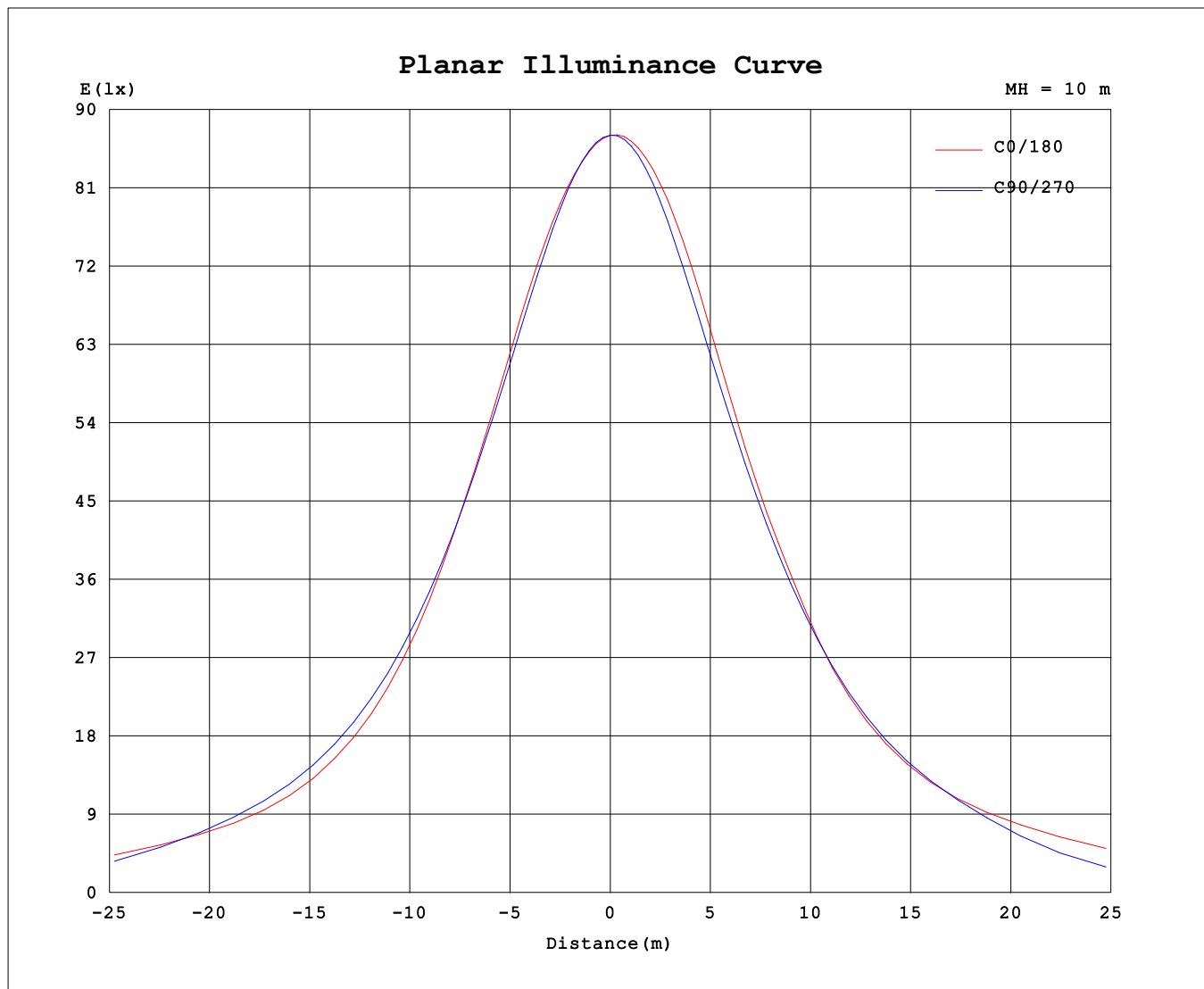
Test:U:277.15V I:1.1356A P:311.77W PF:0.9906 Freq:50.00Hz		
UTHDi:1.45% ITHDi:3.27% KDisp:0.9982 Lamp Flux:44252.9x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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=1.0080]
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=1.0080]

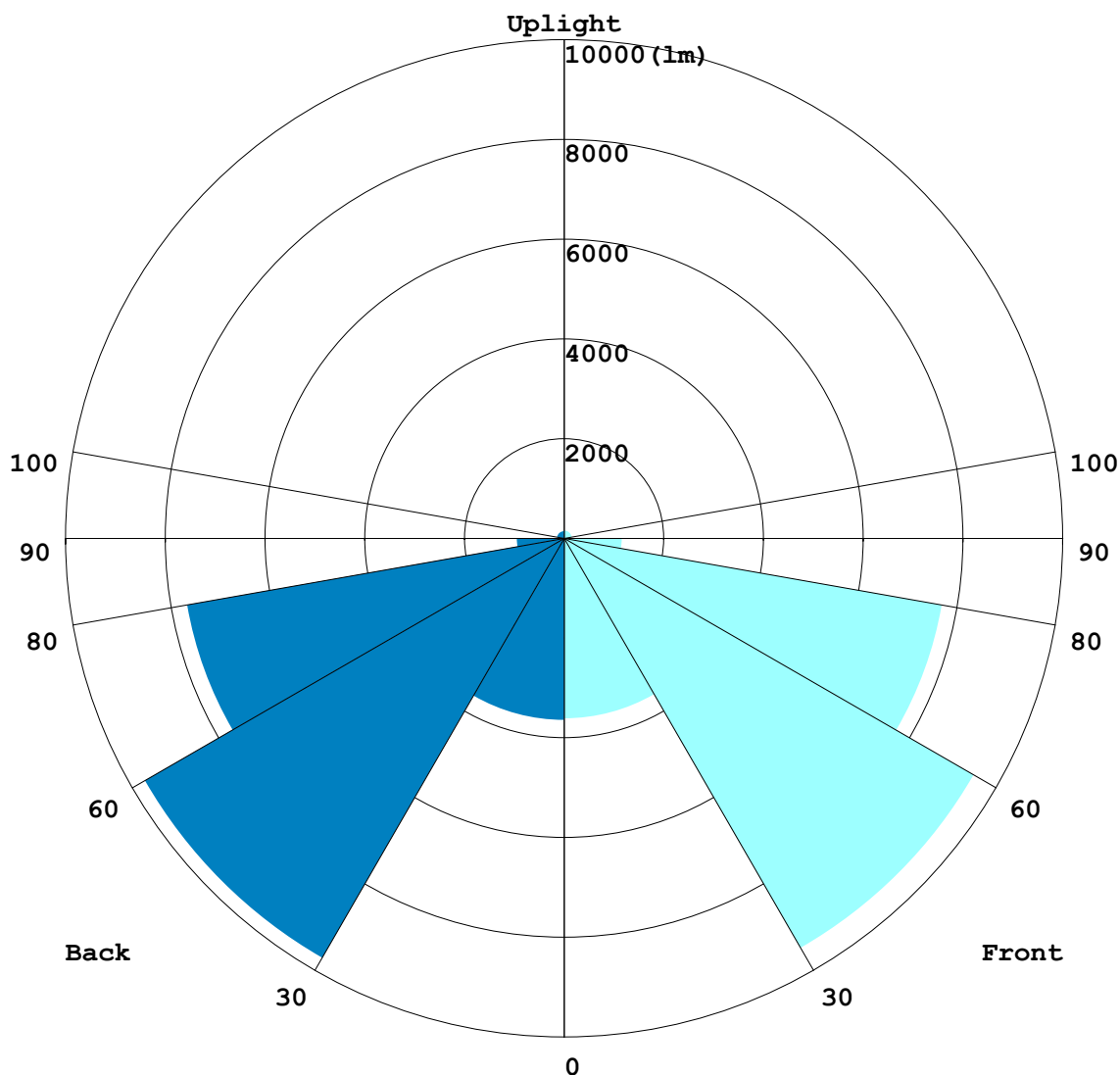
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:277.15V I:1.1356A P:311.77W PF:0.9906 Freq:50.00Hz		
UTHDi:1.45% ITHDi:3.27% KDisp:0.9982 Lamp Flux:44252.9x1 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=1.0080]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:277.15V I:1.1356A P:311.77W PF:0.9906 Freq:50.00Hz UTHDi:1.45% ITHDi:3.27% KDisp:0.9982 Lamp Flux:44252.9x1 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)	3607	8.2
FM - Front-Medium(30-60)	9482.1	21.4
FH - Front-High(60-80)	7688.8	17.4
FVH - Front-Very High(80-90)	1155.6	2.6
Total Forward Light	22115	50.0

BL - Back-Low(0-30)	3641.9	8.2
BM - Back-Medium(30-60)	9708.2	21.9
BH - Back-High(60-80)	7681.9	17.4
BVH - Back-Very High(80-90)	946.97	2.1
Total Back Light	22138	50.0

UL - Uplight-Low(90-100)	37.398	0.1
UH - Uplight-High(100-180)	303.02	0.7
Total Up Light	340.41	0.8

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

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	21979	158.54	22138
Street Side	21934	181.87	22115

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=1.0080]

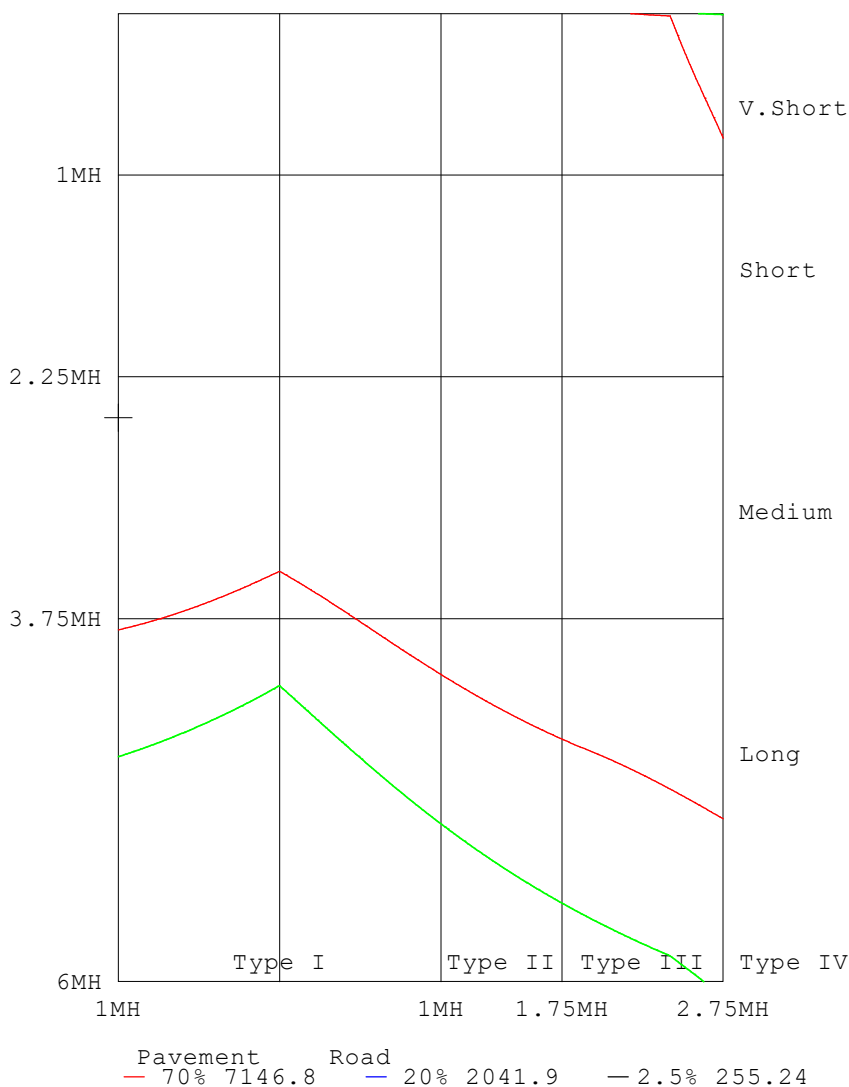
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:277.15V I:1.1356A P:311.77W PF:0.9906 Freq:50.00Hz UTHDi:1.45% ITHDi:3.27% KDisp:0.9982 Lamp Flux:44252.9x1 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=1.0080]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.15V I:1.1356A P:311.77W PF:0.9906 Freq:50.00Hz		
UTHDi:1.45% ITHDi:3.27% KDisp:0.9982 Lamp Flux:44252.9x1 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	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863			
5	859	859	858	859	860	863	865	866	867	867	867	866	864	862	860	860			
10	858	856	852	852	856	864	870	874	877	875	872	869	864	859	857	858			
15	859	856	849	847	853	863	872	880	884	881	875	869	862	855	853	857			
20	862	857	844	838	847	860	873	886	894	889	877	866	858	848	846	856			
25	861	856	839	833	844	857	871	888	897	891	875	863	857	843	840	853			
30	855	850	831	827	842	855	865	884	895	889	871	861	857	839	832	846			
35	848	844	825	824	841	853	861	879	890	886	867	860	857	836	827	840			
40	827	833	817	816	838	849	856	877	886	887	864	858	859	831	819	830			
45	803	815	810	810	837	846	855	881	876	888	867	858	860	826	813	814			
50	769	787	786	799	834	841	852	861	845	867	860	857	859	820	796	787			
55	752	774	770	794	832	838	839	852	836	862	848	858	857	818	788	774			
60	751	770	755	799	834	845	831	863	860	883	846	878	850	831	786	769			
65	789	798	757	823	815	865	837	896	917	933	859	912	768	822	802	787			
70	782	876	801	831	574	816	888	988	928	1024	927	859	450	596	894	859			
75	579	789	874	672	370	625	973	984	698	925	1015	653	284	383	978	833			
80	217	383	871	341	167	309	1045	600	275	442	1005	321	122	167	745	471			
85	82.1	140	415	179	82.3	163	680	287	102	171	473	168	49.9	70.6	312	182			
90	2.61	2.51	4.26	3.57	9.36	27.8	55.0	4.67	1.69	12.4	2.04	1.15	1.19	2.36	2.46	1.90			
95	3.27	2.97	3.67	3.61	2.33	1.68	2.59	3.22	2.02	2.77	2.57	1.58	1.76	2.95	3.01	2.33			
100	4.38	3.99	4.40	4.57	3.37	2.57	3.27	3.93	2.99	3.62	3.21	2.39	2.72	3.79	3.59	3.14			
105	4.92	4.48	4.79	5.06	4.06	3.17	3.62	4.29	3.50	4.03	3.57	2.87	3.30	4.23	3.96	3.49			
110	5.58	5.17	5.53	5.81	4.95	3.99	4.24	4.92	4.15	4.68	4.25	3.57	4.05	4.93	4.74	4.09			
115	6.04	5.65	6.14	6.36	5.43	4.51	4.75	5.43	4.60	5.20	4.78	4.07	4.51	5.46	5.31	4.61			
120	6.75	6.42	6.87	7.11	6.06	5.22	5.49	6.18	5.32	5.91	5.47	4.80	5.16	6.06	5.95	5.38			
125	7.08	6.83	7.18	7.35	6.43	5.66	5.90	6.52	5.70	6.16	5.84	5.23	5.56	6.30	6.25	5.78			
130	7.22	7.19	7.33	7.25	6.77	6.18	6.30	6.57	6.11	6.47	6.26	5.80	6.06	6.56	6.56	6.22			
135	7.19	7.23	7.29	7.13	6.87	6.45	6.49	6.51	6.31	6.53	6.40	6.08	6.30	6.57	6.60	6.40			
140	7.10	7.14	7.14	7.07	6.93	6.71	6.61	6.48	6.49	6.53	6.51	6.34	6.53	6.51	6.54	6.55			
145	7.06	7.06	7.09	7.07	6.96	6.79	6.62	6.47	6.50	6.51	6.52	6.42	6.56	6.45	6.48	6.51			
150	6.99	7.00	7.09	7.09	6.98	6.79	6.62	6.48	6.48	6.52	6.57	6.48	6.56	6.42	6.47	6.43			
155	6.95	7.02	7.11	7.10	6.99	6.81	6.65	6.51	6.53	6.58	6.64	6.54	6.59	6.47	6.53	6.46			
160	6.99	7.09	7.20	7.17	7.03	6.88	6.75	6.61	6.69	6.75	6.80	6.69	6.71	6.64	6.69	6.59			
165	7.05	7.17	7.29	7.26	7.07	6.94	6.83	6.72	6.82	6.90	6.94	6.83	6.82	6.78	6.83	6.73			
170	7.18	7.34	7.41	7.27	7.09	6.99	7.00	6.90	7.06	7.14	7.19	7.07	7.03	6.99	7.07	6.97			
175	7.27	7.40	7.44	7.27	7.12	7.04	7.09	7.00	7.18	7.27	7.30	7.16	7.08	7.05	7.12	7.05			
180	7.24	7.36	7.41	7.24	7.12	7.07	7.14	7.05	7.24	7.36	7.40	7.24	7.12	7.07	7.14	7.05			

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=1.0080]

Remarks: